

Yvonne J. Meeks

Topock Project Manager Chromium Remediation Project Office Gas Transmission & Distribution 6588 Ontario Road San Luis Obispo, CA 93405

Mailing Address 4325 South Higuera Street San Luis Obispo, CA 93401

805.546.5243 Internal: 664.5243 Fax:: 805.546.5232 E-Mail: YJM1@pge.com

August 31, 2007

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

Subject: Groundwater and Surface Water Monitoring Report, Second Quarter 2007

PG&E Topock Compressor Station, Needles, California

Dear Mr. Yue:

Enclosed is the Groundwater and Surface Water Monitoring Report, Second Quarter 2007 for the Pacific Gas and Electric Company (PG&E) Topock Compressor Station. This report provides results for the quarterly monitoring event conducted during April 30 to May 4, 2007 at 48 groundwater monitoring wells. This report also presents results for the shoreline and in-channel Colorado River sampling conducted during May 2007, the June monthly sampling at the new slant wells MW-52 and MW-53, as well as results for other monthly and bi-weekly sampling events throughout the second quarter. A few select samples collected in July 2007 are also included in this second quarter report.

#### **Modified Report Format**

This submittal is the first quarterly report prepared with the new streamlined technical memorandum format agreed to at the July 10<sup>th</sup>, 2007 meeting among DTSC, PG&E and CH2M HILL regarding Groundwater Monitoring Program (GMP) optimization. PG&E understands that changes to this new format may be made based on DTSC review and comment. PG&E will incorporate any DTSC comments on this 2<sup>nd</sup> Quarter report into preparation of subsequent GMP reports.

Annual GMP reports will continue to be submitted in the current format, and will present 4<sup>th</sup> quarter and preceding data for the reporting year. Electronic copies of analytical data and field sampling logs will be submitted with annual reports.

#### Additional Results from Non-Routine Sampling

This report also presents the data collected from two additional data collection activities that are outside the routine GMP data collection program Samples from selected wells collected in May and July 2007 were analyzed for volatile organic compounds, semivolatile organic compounds, and total petroleum hydrocarbons to supplement existing RCRA Facility Investigation (RFI) data. A multi-step sampling program was also conducted at well MW-23 in June-July 2007 to evaluate anomalous results from March 2007. The results and a summary of the MW-23 sampling investigation are provided in Appendix B of this report. Finally, the San Bernardino

August 31, 2007 Page 2

County Park Moabi Campground new water supply well PM-04 was sampled for the first time under the GMP program in May and July 2007 and those results are presented with this report.

If you have any questions on the groundwater and surface water monitoring report, please call me at (805) 234-2257.

Sincerely,

Enclosure

cc: Chris Guerre/DTSC

Karen Baker/DTSC Susan Young/SLC

Geonne Meeks

## Groundwater and Surface Water Monitoring Report, Second Quarter 2007 Topock Compressor Station, Needles, California

PREPARED FOR: Pacific Gas and Electric Company

PREPARED BY: CH2M HILL

DATE: August 31, 2007

PROJECT NUMBER: 354631.MP.04.GM.00

This technical memorandum presents the results of the second quarter 2007 groundwater and surface water monitoring activities conducted at Pacific Gas and Electric Company's (PG&E) Topock Compressor Station near Needles, California. The monitoring activities are conducted as part of PG&E's Groundwater and Surface Water Monitoring Program (GMP) for the Topock site.

Figure 1 shows the locations and sampling frequencies of the monitoring wells in the GMP as of June 2007, the location of the PG&E Topock Compressor Station, and other site features. There are 94 groundwater monitoring wells, two groundwater extraction wells, and nine shoreline and nine in-channel Colorado River surface water sampling locations that are included in the GMP monitoring schedule. For background and description of the current groundwater and surface water sampling, analyses, and monitoring program, refer to PG&E's *Groundwater and Surface Water Monitoring Report*, Fourth Quarter 2006 and Annual Summary, PG&E Topock Compressor Station, dated April 2, 2007.

## **Monitoring Summary**

The following monitoring activities were conducted during second quarter (April through June) 2007 and are addressed in this report:

- The second quarter GMP monitoring event was conducted from April 30 through May 4, 2007 and included sampling 46 groundwater monitoring wells and nine shoreline surface water stations for analyses of constituents of concern (COC). COCs at the Topock Compressor Station include hexavalent chromium [Cr(VI)], total chromium [Cr(T)], specific conductance, and pH. During this GMP event, six selected wells were also sampled for Title 22 California Code of Regulations metals, and a water level measurement survey was conducted.
- Sampling and analysis for the site COCs and selected general chemistry parameters were conducted on May 8 and May 9, 2007 at nine in-channel surface water locations.
- Monthly groundwater sampling events were conducted April 2 through April 4 and June 12 and June 13, 2007; sampling events included sampling 10 monitoring wells for

BAO\072430001 1

the site COCs. Additional biweekly sampling for Cr(VI) and Cr(T) was conducted during the second quarter at one well (MW-34-100).

PG&E performed several additional, non-GMP, groundwater sampling and analysis activities during second quarter 2007. These activities included:

- During the second quarter monitoring event, seven selected GMP wells were sampled
  and analyzed for total petroleum hydrocarbons, volatile organic compounds, and
  semivolatile organic compounds analyses to support the Topock project Resource
  Conservation and Recovery Act Facility Investigation and Remedial Investigation
  (RFI/RI). These results are reported here.
- A focused groundwater sampling and analysis study was conducted in late June through July 2007 at monitoring well MW-23. PG&E performed this study to investigate anomalous chromium sampling results for this well. These results are reported here.
- Groundwater sampling and analyses of selected GMP wells was also performed during second quarter as part PG&E's upland *in-situ* pilot study and chromium isotope study. These results will be reported separately in their respective reports.

## Monitoring Activities and Results

## **GMP Groundwater Monitoring**

The groundwater monitoring data presented in Tables 1 through 4 include the results from January through June 2007.

Figure 1 shows the locations of the GMP monitoring wells. Results for chromium and other site COCs in groundwater samples collected from January through June 2007 are presented in Table 1. In second quarter 2007, the maximum detected Cr(VI) concentration was 13,500 micrograms per liter ( $\mu g/L$ ) at well MW-20-130. Overall, the second quarter 2007 chromium results are consistent with the prior quarterly sampling results. Groundwater sampling and chain-of-custody forms are included in Attachment 1.

Figures 2 through 4 present the Cr(VI) results for wells monitoring the upper, middle, and lower depth intervals of the Alluvial Aquifer, respectively, from the May 2007 quarterly sampling event. Consistent with earlier observations, declining concentrations were observed across the transition from the alluvial upland environment to the fluvial floodplain environment. A more detailed review of concentration trends will be included in the annual report.

## GMP Surface Water Monitoring

Figure 1 shows the locations of the shoreline and in-channel surface water monitoring stations in the Colorado River. Table 2 presents the results of chromium and other analytes in shoreline surface water sampling events performed from January through June 2007. The Cr(VI) sampling results of the Cr(VI) shoreline surface water monitoring during second quarter 2007 are shown on Figure 2. Cr(VI) and Cr(T) were not detected in any of the water samples collected at the nine shoreline surface water stations during the second quarter 2007.

BAO\072430001 2

Table 3 presents the results of site COC, hardness, total dissolved solids, and total suspended solids analyses for the in-channel surface water sampling events performed from January through June 2007. Cr(VI) and Cr(T) were not detected in any of the water samples collected at the nine in-channel surface water stations during the second quarter 2007.

## Title 22 Metals Groundwater Analyses

Table 4 presents the Title 22 California Code of Regulations metal results for the GMP monitoring wells sampled from January through June 2007. In addition to Cr(T), the trace metals detected during the May 2007 groundwater sampling were arsenic, barium, molybdenum, nickel, selenium, vanadium, and zinc. Excluding Cr(T) and arsenic (well MW-12), the dissolved concentrations of the trace metals detected during the May 2007 sampling are below the respective California drinking water standards.

### RFI/RI Groundwater Analyses

Table 5 presents the RFI groundwater results collected in May 2007. The RFI data gap groundwater samples from selected wells were analyzed for volatile organic compounds, semivolatile organic compounds, and total petroleum hydrocarbons. The results from these samples will be evaluated in the RFI/RI Report, Volume II which is being prepared in late 2007.

## MW-23 Groundwater Sampling

Attachment 2 presents a summary of the groundwater data collection activities and results from bedrock well MW-23 (see Figure 1 for well location). The chromium results from bedrock monitoring well MW-23 since fourth quarter 2006 were considered to be anomalous, and a multi-step investigation focused on MW-23 was developed, started in late June, and completed in July 2007, with results from each step of the investigation reported to the Department of Toxic Substances Control in several e-mail communications.

## **Data Validation and Completeness**

The laboratory analytical data from GMP monitoring in second quarter 2007 were independently reviewed by project chemists to assess data quality and to identify deviations from analytical requirements. The completeness objectives were met for all method and analyte combinations. No significant analytical deficiencies were identified in the second quarter 2007 monitoring data.

## Schedule for Third Quarter 2007 GMP Activities

The third quarter 2007 monitoring period (July through October 2007) will consist of the following events:

• The third quarter event will be conducted in October 2007. This biennial event will include 92 monitoring wells.

BAO\072430001 3

- The first two monthly events of the third quarter 2007 occurred on July 10 and July 11 and August 7 and August 8, 2007. The last monthly event is scheduled for September 5 and September 6, 2007.
- Quarterly surface water sampling, including nine shoreline and nine in-channel locations, will be conducted in September 2007.
- As approved by Department of Toxic Substances Control, starting with the second quarter 2007 monitoring event, upland wells MW-24A, MW-24B, MW-38S, MW-38D, and MW-11 are being excluded from the GMP sampling and reporting for the duration of the upland *in-situ* pilot test. Following the completion of the upland *in-situ* pilot study test, the GMP sampling frequency for these five wells will be re-evaluated.
- The groundwater and surface water monitoring report for the third quarter 2007 GMP event will be submitted approximately 12 weeks after the October 2007 sampling event.

## Certification

This report was prepared by CH2M HILL under the supervision of the professional whose seal and signature appears herein in accordance with currently accepted professional practices. No warranty, expressed or implied, is made.

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

California Certified Engineering Geologist

RED GEO B/31/07 C No. CEG 1977 CERTIFIED ENGINEERING GEOLOGIST OF CALIFORNIA

Report Reviewed by:

Jay Piper

CH2M HILL Project Manager

**TABLE 1**Groundwater COC Sampling Results, January through June 2007
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
MW-10	06-Mar-07		1640	1700	2,760	7.67
	03-May-07		1230	1440	2,840	7.58 J
MW-12	06-Mar-07		2630	2440	4,820	8.41
	03-May-07		2620	2880	5,220	8.40 J
MW-13	05-Mar-07		23.4	25.2	1,860	7.66
MW-14	12-Mar-07		13.0	13.4	1,450	7.75
MW-18	12-Mar-07		35.6	35.6	1,200	7.69
	12-Mar-07	FD	35.6	34.1	1,200	7.73
MW-19	06-Mar-07		1040	1030	2,240	7.69
	02-May-07		836	777	2,310	7.70 J
MW-20-70	14-Mar-07		2820	2720	2,850	7.62
-	03-May-07		2790	3050	2,750	7.62 J
MW-20-100	14-Mar-07		9470	9270	3,590	7.63
	03-May-07		10100	9820	3,560	7.56 J
	03-May-07	FD	10000	10500	3,590	7.54 J
MW-20-130	08-Mar-07		12800	11900	12,600	7.59
	08-Mar-07	FD	14400	12100	12,800	7.57
	03-May-07		13400	16200	12,700	7.58 J
	03-May-07	FD	13500	14800	12,800	7.53 J
MW-21	09-Mar-07		ND (1.0)	ND (1.0) LF	11,100	7.26
	01-May-07		ND (1.0)	1.40	12,200	7.23 J
MW-22	08-Mar-07		ND (1.0)	ND (1.0)	27,700	7.02
MW-23	06-Mar-07		1020	1020	10,200	7.75
	02-May-07		13.0	10.9	17,100	7.38
MW-24A	06-Mar-07		3540	3600	3,190	7.69
MW-24B	05-Mar-07		5980	6100	14,900	7.92
MW-24BR	06-Mar-07		ND (1.0)	ND (1.0)	14,200	8.26
	03-May-07		ND (1.0)	ND (1.0) LF	14,000	8.29 J
MW-25	06-Mar-07		945	951	1,330	7.59
MW-26	12-Mar-07		3440	3540	3,580	7.57
MW-27-85	10-Jan-07		ND (1.0)	4.40		
	06-Feb-07		ND (1.0)	ND (1.0)		
	07-Mar-07		ND (0.2)	ND (1.0)	18,100	7.31
	03-Apr-07		ND (1.0)	ND (1.0)		
	01-May-07		ND (1.0)	1.00	18,500	7.21 J
	13-Jun-07		ND (1.0)	ND (1.0)		
MW-28-90	08-Mar-07		ND (1.0)	ND (1.0)	7,450	7.56
	04-May-07		ND (0.2)	ND (1.0)	7,560	7.49 J
MW-31-60	12-Mar-07		626	638	2,730	7.69
MW-31-135	08-Mar-07		51.0	55.2	9,980	7.91
	08-Mar-07	FD	52.0	54.2	9,970	7.93

**TABLE 1**Groundwater COC Sampling Results, January through June 2007
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
MW-32-20	06-Mar-07	ND (2.0)	ND (1.0)	37,200	6.85
	30-Apr-07	ND (2.0)	ND (1.0)	27,500	6.86 J
MW-32-35	06-Mar-07	ND (1.0)	ND (1.0)	17,300	7.22
	30-Apr-07	ND (1.0)	ND (1.0)	19,400	7.07 J
MW-33-40	06-Mar-07	ND (0.2)	ND (1.0)	4,960	8.31
	02-May-07	ND (0.2)	ND (1.0)	4,500	8.38 J
MW-33-90	12-Mar-07	17.1	18.0	9,750	7.53
	02-May-07	18.8	16.8	9,980	7.56 J
MW-33-150	06-Mar-07	6.90	7.00	15,900	7.67
10100-33-130	00-May-07	6.80	6.10	16,000	7.61 J
NAVA 00 040					
MW-33-210	05-Mar-07	11.2	11.0	18,900	7.45
	02-May-07	9.20	9.30	18,800	7.46 J
MW-34-80	09-Jan-07	ND (1.0)	3.20		
	05-Feb-07	ND (1.0)	ND (1.0)		
	05-Mar-07	ND (1.0)	ND (1.0)	10,000	7.33
	02-Apr-07	ND (0.2)	ND (1.0)		
	30-Apr-07	ND (1.0)	1.10	10,000	7.40 J
	13-Jun-07	ND (1.0)	ND (1.0)		
MW-34-100	09-Jan-07	797	830		
	24-Jan-07	832	817		
	05-Feb-07	780	646		
	05-Feb-07	FD 764	634		
	21-Feb-07	804	895	<b></b>	<b></b>
	07-Mar-07	806	788	16,400	7.76
	21-Mar-07	724	642		
	02-Apr-07	749	786		
	02-Apr-07	FD 720	800		
	18-Apr-07	687	641	40.500	7.00.1
	30-Apr-07	626	500	16,500	7.60 J
	30-Apr-07	FD 632	572	16,300	7.68 J
	16-May-07	588 507	573 656		
	30-May-07	597 600	656 644		
	13-Jun-07 13-Jun-07	609 FD 608	644 633	<del></del>	
	27-Jun-07	FD 608 574	536		
NAVA 05 00				0.750	
MW-35-60	08-Mar-07	31.3	35.1	6,750	7.53
	08-Mar-07	FD 30.8	32.7	6,740	7.50
MW-35-135	08-Mar-07	32.0	39.2	9,820	7.76
	04-May-07	27.2	26.2	10,800	7.62 J
	04-May-07	FD 27.8	25.2	10,500	7.65 J
MW-36-70	07-Mar-07	ND (0.2)	ND (1.0)	2,780	7.93
	01-May-07	ND (0.2)	ND (1.0)	2,210	8.02 J
MW-36-90	10-Jan-07	6.00	9.70		
	05-Feb-07	5.40	4.90		

**TABLE 1**Groundwater COC Sampling Results, January through June 2007
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	рН
MW-36-90	07-Mar-07	3.10	3.70	7,060	7.54
	03-Apr-07	2.90	3.20		
	02-May-07	2.00	1.80	6,080	7.54 J
	02-May-07 F	D 1.90	1.80	6,170	7.43 J
	12-Jun-07	2.60	2.80		
MW-36-100	10-Jan-07	571	554		
	05-Feb-07	538	474		
	08-Mar-07	436	454	14,100	7.33
	02-Apr-07	366	378		
	02-May-07	297	348	13,500	7.25 J
	14-Jun-07	181	192		
MW-37D	07-Mar-07	1420	1310	14,700	7.84
	03-May-07	1350	1260	14,400	7.56 J
MW-37S	07-Mar-07	7.80	8.50	4,640	7.86
MW-39-40	05-Mar-07	ND (1.0)	ND (1.0)	9,480	7.43
	03-May-07	ND (1.0) J	ND (1.0)	9,490	7.26 J
MW-39-70	05-Mar-07	35.0	37.2	8,250	7.31
11111 00 10	03-May-07	10.1 R	10.4	6,920	7.42 J
	07-Jun-07	4.50	4.30 LF		
MW-39-80	10-Jan-07	302	292		
7144-39-00	08-Feb-07	286	247		
	05-Mar-07	151	144	13,300	7.10
	04-Apr-07	112	126		
	03-May-07	156	146	12,400	7.27 J
	12-Jun-07	83.6	72.7		
MW-39-100	10-Jan-07	2930	2560		
	08-Feb-07	2880	2400		
	12-Mar-07	2850	2770	18,700	7.20
	04-Apr-07	3190	2990		
	03-May-07	2670	2920	18,600	7.20 J
	13-Jun-07	2530	2730		
MW-40D	09-Mar-07	104	91.6	15,300	7.68
	04-May-07	78.0	79.6	15,300	7.60 J
MW-41D	07-Mar-07	ND (1.0)	ND (1.0)	20,800	7.86
		D ND (1.0)	ND (1.0)	20,700	7.84
MW-41M	08-Mar-07	10.0	12.0 LF	14,500	7.76
MW-41S	08-Mar-07	19.9	20.9	4,710	7.96
MW-42-30	07-Mar-07	ND (0.2)	ND (1.0)	13,300	7.38
MW-42-55	07-Mar-07	ND (0.2)	ND (1.0)	15,000	7.35
12 00		FD ND (0.2)	ND (1.0)	15,200	7.35
	01-May-07	ND (1.0)	ND (1.0)	15,400	7.33 J
MW-42-65	07-May-07	ND (0.2)	ND (1.0)	17,500	7.06
	U1-IVIAI-U1	110 (0.2)	(1.U)	17,500	7.00

**TABLE 1**Groundwater COC Sampling Results, January through June 2007
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	рН
MW-43-25	06-Mar-07	ND (0.2)	ND (1.0)	1,250	7.55
MW-43-75	06-Mar-07	ND (1.0)	ND (1.0)	13,800	7.47
	30-Apr-07	ND (1.0)	ND (1.0)	13,600	7.46 J
MW-43-90	06-Mar-07	ND (1.0)	ND (1.0)	19,700	6.99
	30-Apr-07	ND (1.0)	ND (1.0)	19,800	6.99 J
MW-44-70	09-Mar-07	ND (1.0)	ND (1.0)	6,320	7.50
11170	03-May-07	ND (0.2)	ND (1.0)	5,890	7.38 J
MW-44-115	09-Jan-07	1140	1260	0,000	
10100-44-115	09-5an-07 06-Feb-07	1140	1020		
	00-1 eb-07 09-Mar-07	1210	1340 LF	13,000	7.79
	09-Mar-07	FD 1200	1340	13,000	7.73
	09-Mar-07 02-Apr-07	1210	1420		7.01
	04-May-07	1080	1190	13,200	7.81 J
	14-Jun-07	1030	1110		
MW-44-125	09-Jan-07	285	285		
10100 44 120	09-Jan-07	FD 284	268		
	06-Feb-07	213	190		
	09-Mar-07	258	287	12,300	7.85
	03-Apr-07	296	272		
	03-May-07	254	315	11,700	7.54 J
	•	FD 300	309	12,200	7.87 J
	14-Jun-07	229	258		
MW-45-095a	04-May-07	169	140	10,100	7.57 J
MW-46-175	10-Jan-07	138	133		
WW-40-173	08-Feb-07	130	108		
	08-Mar-07	153	147	16,200	8.47
	03-Apr-07	113	95.8		
	04-May-07	86.4	114	16,100	8.35 J
	14-Jun-07	101	109		
MW-46-205	08-Mar-07	4.00	5.40	19,900	8.32
1V1 V V - TU-2UU	04-May-07	3.90	3.10	20,400	7.49 J
MM 47 FF				*	
MW-47-55	06-Mar-07	54.6 30.3	53.0 31.6	3,610	7.70 7.64 I
NAVA / 4- 4:-	04-May-07			3,990	7.64 J
MW-47-115	06-Mar-07	10.6	10.8	12,500	7.77
	04-May-07	14.1	13.0	12,700	7.68 J
MW-48	07-Mar-07	ND (1.0)	ND (1.0) LF	17,400	7.89
	01-May-07	ND (1.0)	1.00	17,900	7.37 J
MW-49-135	09-Mar-07	ND (1.0)	ND (1.0)	13,500	7.67
	04-May-07	ND (0.2)	ND (1.0)	13,400	7.83 J
MW-49-275	09-Mar-07	ND (1.0)	ND (1.0)	23,700	8.10
	04-May-07	ND (0.2)	ND (1.0)	23,400	8.05 J
MW-49-365	09-Mar-07	ND (2.0)	ND (1.0)	36,100	7.98
	04-May-07	ND (0.2)	ND (1.0)	36,900	7.91 J

**TABLE 1**Groundwater COC Sampling Results, January through June 2007
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
MW-50-095	07-Mar-07	274	372	4,770	7.98
	02-May-07	304	264	4,810	7.87 J
MW-50-200	07-Mar-07	12300	14600	20,700	7.92
	30-Apr-07	10900	12100	20,300	7.83 J
MW-51	06-Mar-07	4690	5090	10,500	7.56
	01-May-07	4670	5120	11,100	7.52 J
MW-52D	13-Mar-07	ND (1.0)	ND (1.0)		
	01-May-07	ND (1.0)	ND (1.0)		
	05-Jun-07	ND (1.0)	ND (1.0)	20,700	8.03 J
MW-52M	13-Mar-07	ND (1.0)	ND (1.0)		
	01-May-07	ND (1.0)	ND (1.0)		
	05-Jun-07	ND (1.0)	ND (1.0)	16,100	7.94 J
MW-52S	13-Mar-07	ND (1.0)	ND (1.0)		
	01-May-07	ND (1.0)	ND (1.0)		
	05-Jun-07	ND (1.0)	ND (1.0)	10,600	7.40 J
MW-53D	03-Apr-07	ND (1.0)	ND (1.0)		
	02-May-07	ND (1.0)	1.41		
	05-Jun-07	ND (1.0)	ND (1.0)	26,100	8.91 J
	05-Jun-07 F	D ND (1.0)	ND (1.0)	23,100	8.85 J
MW-53M	03-Apr-07	ND (1.0)	ND (1.0)		
	01-May-07	ND (1.0)	ND (1.0)		
	05-Jun-07	ND (1.0)	ND (1.0)	14,400	8.71 J
OW-3D	09-Mar-07	3.10	3.00	7,680	8.18
OW-3M	09-Mar-07	18.3	17.0	5,100	8.07
OW-3S	09-Mar-07	22.8	22.1	1,730	7.71
PE-1	10-Jan-07	88.9	103	8,410	7.75
	06-Feb-07	80.8	89.5	8,390	7.49
	07-Mar-07	84.7	91.0	8,360	7.52
	13-Jun-07	52.0	48.1	7,650	7.52 J
PM-3	02-May-07	0.90	1.30 UF	1,890	7.82 J
PM-4	02-May-07	ND (0.2)	ND (1.0) UF	1,530	7.99 J
TW-3D	10-Jan-07	2440	2580	8,670	7.34
	06-Feb-07	2400	2310	8,610	7.30
	07-Mar-07	2420	2500	8,740	7.37
	13-Jun-07	2000	2350	8,670	7.32 J
TW-4	07-Mar-07	35.2	31.1	20,700	7.85
	07-Mar-07 F	D 35.5	36.9	20,800	7.77

#### TABLE 1

Groundwater COC Sampling Results, January through June 2007 PG&E Topock Groundwater and Surface Water Monitoring Program

#### NOTES:

μg/L micrograms per liter

µS/cm microSiemens per centimeter
ND not detected at listed reporting limit

J concentration or reporting limit estimated by laboratory or data validation

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

(---) not collected or not available

FD field duplicate sample

LF lab filtered UF unfiltered

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

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

Wells TW-3D and PE-1 are active extraction wells for the IM hydraulic containment system.

Monitoring well MW-39-70 was resampled on June 7, 2007 due to the rejected hexavalent chromium sample collected on May 3, 2007.

The March, April and May 2007 results for slant wells MW-52 and MW-53 are from initial groundwater sampling events.

**TABLE 2**Shoreline Surface Water COC Sampling Results, January through June 2007 PG&&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (μg/L)	Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН
CON	22-Jan-07	ND (0.2)	ND (1.0)		
	14-Mar-07	ND (0.2)	ND (1.0)	949	8.25
	09-May-07	ND (0.2)	ND (1.0)	949	8.23
I-3	22-Jan-07	ND (0.2)	ND (1.0)		
	13-Mar-07	ND (0.2)	ND (1.0)	908	8.34
	08-May-07	ND (0.2)	ND (1.0)	957	8.29
NR-1	22-Jan-07	ND (0.2)	ND (1.0)		
	14-Mar-07	ND (0.2)	ND (1.0)	958	8.33
	09-May-07	ND (0.2)	ND (1.0)	952	8.32
NR-2	22-Jan-07	ND (0.2)	ND (1.0)		
	14-Mar-07	ND (0.2)	ND (1.0)	945	8.30
	09-May-07	ND (0.2)	ND (1.0)	952	8.29
NR-3	22-Jan-07	ND (0.2)	ND (1.0)		
	14-Mar-07	ND (0.2)	ND (1.0)	942	8.30
	09-May-07	ND (0.2)	ND (1.0)	950	8.27
R-22	22-Jan-07	ND (0.2)	ND (1.0)		
	13-Mar-07	ND (0.2)	ND (1.0)	928	8.30
	08-May-07	ND (0.2)	ND (1.0)	958	8.30
R-27	22-Jan-07	ND (0.2)	ND (1.0)		
	13-Mar-07	ND (0.2)	ND (1.0)	956	8.31
	08-May-07	ND (1.0)	ND (1.0)	967	8.28
R-28	22-Jan-07	ND (0.2)	ND (1.0)		
	14-Mar-07	ND (0.2)	ND (1.0)	914	8.16
	09-May-07	ND (0.2)	ND (1.0)	951	8.27
RRB	22-Jan-07	ND (0.2)	ND (1.0)		
	14-Mar-07	ND (0.2)	ND (1.0)	929	8.18
	09-May-07	ND (0.2)	ND (1.0)	947	8.13

#### NOTES:

μg/L micrograms per liter

µS/cm microSiemens per centimeter

ND not detected at listed reporting limit

J concentration or reporting limit estimated by laboratory or data validation

(---) data not collected or not available

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

Hexavalent chromium analysis method: SW7199 (reporting limit 0.2  $\mu g/L$ )

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

TABLE 3
In-Channel Surface Water COC and Additional Parameters Sampling Results, January through June 2007
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (μg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	рН	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-CON-S	22-Jan-07	ND (0.2)	ND (1.0)			355		
C-CON-M	22-Jan-07	ND (0.2)	ND (1.0)			345		
C-CON-D	22-Jan-07	ND (0.2)	ND (1.0)			350		
C-CON-D	20-Feb-07	ND (0.2)	ND (1.0)					
C-CON-S	14-Mar-07	ND (0.2)	ND (1.0)	932	8.28	332	760	ND (10)
C-CON-M	14-Mar-07	ND (0.2)	ND (1.0)	930	8.30	320	755	ND (10)
C-CON-D	14-Mar-07	ND (0.2)	ND (1.0)	939	8.26	340	720	ND (10)
C-CON-S	09-May-07	ND (0.2)	ND (1.0)	948	8.25	324	670	ND (10)
C-CON-M	09-May-07	ND (0.2)	ND (1.0)	951	8.27	324	670	ND (10)
C-CON-D	09-May-07	ND (0.2)	ND (1.0)	949	8.25	316	715	ND (10)
C-I-3-S	23-Jan-07	ND (0.2)	ND (1.0)			360		
C-I-3-M	23-Jan-07	ND (0.2)	ND (1.0)			375		
C-I-3-D	23-Jan-07	ND (0.2)	ND (1.0)			345		
C-I-3-D	20-Feb-07	ND (0.2)	ND (1.0)					
C-I-3-S	13-Mar-07	ND (0.2)	ND (1.0)	945	8.29	336	720 J	ND (10)
C-I-3-M	13-Mar-07	ND (0.2)	ND (1.0)	931	8.30	336	695 J	ND (10)
C-I-3-D	13-Mar-07	ND (0.2)	ND (1.0)	920	8.25	328	710 J	ND (10)
C-I-3-S	08-May-07	ND (0.2)	ND (1.0)	953	8.28	316	675 J	ND (10)
C-I-3-M	08-May-07	ND (0.2)	ND (1.0)	952	8.24	320	705 J	ND (10)
C-I-3-D	08-May-07	ND (0.2)	ND (1.0)	950	8.32	320	680 J	ND (10)
C-MAR-M	23-Jan-07	ND (0.2)	ND (1.0)			350		
C-MAR-D	20-Feb-07	ND (0.2)	ND (1.0)					
C-MAR-S	13-Mar-07	ND (0.2)	ND (1.0)	1,030	8.04	352	760 J	48.0
C-MAR-D	13-Mar-07	ND (0.2)	ND (1.0)	1,030	8.06	348	770 J	68.0
C-MAR-S	09-May-07	ND (0.2)	ND (1.0)	951	8.24	320	695	18.0
C-MAR-D	09-May-07	ND (0.2)	ND (1.0)	929	8.08	316	655	ND (10)
C-NR1-S	22-Jan-07	ND (0.2)	ND (1.0)			360		
C-NR1-M	22-Jan-07	ND (0.2)	ND (1.0)			350		
C-NR1-D	22-Jan-07	ND (0.2)	ND (1.0)			365		
C-NR1-D	20-Feb-07	ND (0.2)	ND (1.0)					
C-NR1-S	14-Mar-07	ND (0.2)	ND (1.0)	935	8.27	320	760	ND (10)

TABLE 3
In-Channel Surface Water COC and Additional Parameters Sampling Results, January through June 2007
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (μg/L)	Specific Conductance (µS/cm)	pН	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-NR1-M	14-Mar-07	ND (0.2)	ND (1.0)	934	8.22	304	760	ND (10)
C-NR1-D	14-Mar-07	ND (0.2)	ND (1.0)	942	8.30	300	730	ND (10)
C-NR1-S	09-May-07	ND (0.2)	ND (1.0)	957	8.32	328	705	ND (10)
C-NR1-M	09-May-07	ND (0.2)	ND (1.0)	952	8.31	324	700	ND (10)
C-NR1-D	09-May-07	ND (0.2)	ND (1.0)	951	8.29	324	715	ND (10)
C-NR3-S	22-Jan-07	ND (0.2)	ND (1.0)			320		
C-NR3-M	22-Jan-07	ND (0.2)	ND (1.0)			320		
C-NR3-D	22-Jan-07	ND (0.2)	ND (1.0)			330		
C-NR3-D	20-Feb-07	ND (0.2)	ND (1.0)					
C-NR3-S	14-Mar-07	ND (0.2)	ND (1.0)	931	8.31	320	755	ND (10)
C-NR3-M	14-Mar-07	ND (0.2)	ND (1.0)	944	8.30	332	740	ND (10)
C-NR3-D	14-Mar-07	ND (0.2)	ND (1.0)	945	8.27	316	740	ND (10)
C-NR3-S	09-May-07	ND (0.2)	ND (1.0)	957	8.27	316	670	ND (10)
C-NR3-M	09-May-07	ND (0.2)	ND (1.0)	955	8.31	324	665	ND (10)
C-NR3-D	09-May-07	ND (0.2)	ND (1.0)	952	8.28	324	690	ND (10)
C-NR4-S	22-Jan-07	ND (0.2)	ND (1.0)			316		
C-NR4-M	22-Jan-07	ND (0.2)	ND (1.0)			350		
C-NR4-D	22-Jan-07	ND (0.2)	ND (1.0)			360		
C-NR4-D	20-Feb-07	ND (0.2)	ND (1.0)					
C-NR4-S	14-Mar-07	ND (0.2)	ND (1.0)	943	8.28	332	745	ND (10)
C-NR4-M	14-Mar-07	ND (0.2)	ND (1.0)	947	8.31	332	755	ND (10)
C-NR4-D	14-Mar-07	ND (0.2)	ND (1.0)	946	8.30	316	765	ND (10)
C-NR4-S	09-May-07	ND (0.2)	ND (1.0)	954	8.22	320	720	ND (10)
C-NR4-M	09-May-07	ND (0.2)	ND (1.0)	950	8.21	320	670	ND (10)
C-NR4-D	09-May-07	ND (0.2)	ND (1.0)	957	8.25	316	695	ND (10)
C-R22-S	23-Jan-07	ND (0.2)	ND (1.0)			345		
C-R22-M	23-Jan-07	ND (0.2)	ND (1.0)			370		
C-R22-D	23-Jan-07	ND (0.2)	ND (1.0)			365		
C-R22-D	20-Feb-07	ND (0.2)	ND (1.0)					
C-R22-S	13-Mar-07	ND (0.2)	ND (1.0)	937	8.18	328	750 J	ND (10)
C-R22-M	13-Mar-07	ND (0.2)	ND (1.0)	934	8.30	324	720 J	ND (10)

TABLE 3
In-Channel Surface Water COC and Additional Parameters Sampling Results, January through June 2007
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	рН	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-R22-D	13-Mar-07	ND (0.2)	ND (1.0)	941	8.25	332	740 J	ND (10)
C-R22-S	08-May-07	ND (0.2)	ND (1.0)	963	8.29	320	660 J	ND (10)
C-R22-M	08-May-07	ND (0.2)	ND (1.0)	960	8.28	328	680 J	ND (10)
C-R22-D	08-May-07	ND (0.2)	ND (1.0)	960	8.30	324	700 J	ND (10)
C-R27-S	23-Jan-07	ND (0.2)	ND (1.0)			370		
C-R27-M	23-Jan-07	ND (0.2)	ND (1.0)			365		
C-R27-D	23-Jan-07	ND (0.2)	ND (1.0)			325		
C-R27-D	20-Feb-07	ND (0.2)	ND (1.0)					
C-R27-S	13-Mar-07	ND (0.2)	ND (1.0)	949	8.31	352	730 J	ND (10)
C-R27-M	13-Mar-07	ND (0.2)	ND (1.0)	953	8.34	340	735 J	ND (10)
C-R27-D	13-Mar-07	ND (0.2)	ND (1.0)	948	8.33	336	740 J	ND (10)
C-R27-S	08-May-07	ND (1.0)	ND (1.0)	962	8.27	320	705 J	ND (10)
C-R27-M	08-May-07	ND (1.0)	ND (1.0)	960	8.26	324	715 J	ND (10)
C-R27-D	08-May-07	ND (0.2)	ND (1.0)	963	8.25	320	650 J	ND (10)
C-TAZ-S	23-Jan-07	ND (0.2)	ND (1.0)			350		
C-TAZ-M	23-Jan-07	ND (0.2)	ND (1.0)			345		
C-TAZ-D	23-Jan-07	ND (0.2)	ND (1.0)			350		
C-TAZ-D	20-Feb-07	ND (0.2)	ND (1.0)					
C-TAZ-S	13-Mar-07	ND (0.2)	ND (1.0)	922	8.31	336	700 J	ND (10)
C-TAZ-M	13-Mar-07	ND (0.2)	ND (1.0)	941	8.35	324	710 J	ND (10)
C-TAZ-D	13-Mar-07	ND (0.2)	ND (1.0)	936	8.33	324	690 J	ND (10)
C-TAZ-S	08-May-07	ND (0.2)	ND (1.0)	950	8.31	316	640 J	ND (10)
C-TAZ-M	08-May-07	ND (0.2)	ND (1.0)	951	8.32	328	670 J	ND (10)
C-TAZ-D	08-May-07	ND (0.2)	ND (1.0)	947	8.30	324	690 J	ND (10)

#### TABLE 3

In-Channel Surface Water COC and Additional Parameters Sampling Results, January through June 2007 PG&E Topock Groundwater and Surface Water Monitoring Program

#### NOTES:

μg/L micrograms per liter

µS/cm microSiemens per centimeter

ND not detected at listed reporting limit

(---) data not collected or not available

NA not analyzed

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

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

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

S = shallow (1 foot from water surface)

M = middle (mid-point of water column)

D = deep (1 foot from river bottom)

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

In January 2007, river samples were not collected at C-MAR-S and C-MAR-D due to shallow water column at locations.

In March 2007, river sample was not collected at C-MAR-M due to shallow water column at location.

In May 20007, river sample was not collected at C-MAR-M due to shallow water column at location.

A one-time river sampling event of only the deep locations in the 9 in-channel stations was conducted on February 20, 2007.

TABLE 4 Title 22 Metal Results, January through June 2007 PG&E Topock Groundwater and Surface Water Monitoring Program

	California MCL:	6	10 ^	1000	4	5	NE	50	1000 *	NE	2	NE	100	50	100*	2	NE	5000*
Well ID	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MW-10	06-Mar-07	ND (2.0)	7.77	60.9	ND (1.0)	ND (1.0)	ND (1.0)	1700	ND (1.0)	ND (1.0)	ND (0.2)	130	1.65	4.06	ND (1.0)	ND (1.0)	36.1	ND (10)
MW-10	03-May-07	ND (2.0)	8.18	54.4	ND (1.0)	ND (1.0)	ND (1.0)	1440	2.30	1.89	ND (0.2)	120	2.55	4.54	ND (1.0)	ND (1.0)	35.2	ND (10)
MW-12	18-Apr-06	ND (2.0)	127	48.2	ND (1.0)	ND (1.0)	ND (1.0)	1300	ND (1.0)	ND (1.0)	ND (0.2)	52.8	3.91	4.30	ND (1.0) J	ND (1.0)	40.8	ND (10)
MW-12	06-Mar-07	ND (2.0)	81.9	78.8	ND (1.0)	ND (1.0)	ND (1.0)	2440	ND (1.0)	ND (1.0)	ND (0.2)	28.3	2.70	5.72	ND (1.0)	ND (1.0)	28.6	ND (10)
MW-12	03-May-07	ND (2.0)	78.5	83.1	ND (1.0)	ND (1.0)	ND (1.0)	2880	ND (1.0)	ND (1.0)	ND (0.2)	30.3	4.21	5.84	ND (1.0)	ND (1.0)	26.3	ND (10)
MW-20-70	14-Mar-07	ND (2.0)	1.79	34.3	ND (1.0)	ND (1.0)	ND (1.0)	2720	ND (1.0)	ND (1.0)	ND (0.2)	25.9	1.20	11.5	ND (1.0)	ND (1.0)	8.96	ND (10)
MW-20-70	03-May-07	ND (2.0)	1.66	33.7	ND (1.0)	ND (1.0)	ND (1.0)	3050	1.61	ND (1.0)	ND (0.2)	26.3	ND (1.0)	11.1	ND (1.0)	ND (1.0)	7.77	14.5
MW-20-130	08-Mar-07	ND (2.0)	5.52	25.0	ND (1.0)	ND (1.0)	1.09	11900	ND (1.0)	ND (1.0)	ND (0.2)	43.8	ND (1.0)	16.1	ND (1.0)	ND (1.0)	2.74	ND (10)
MW-20-130 FD	08-Mar-07	ND (2.0)	5.44	25.2	ND (1.0)	ND (1.0)	ND (1.0)	12100	ND (1.0)	ND (1.0)	ND (0.2)	44.0	ND (1.0)	15.7	ND (1.0)	ND (1.0)	2.80	ND (10)
MW-20-130	03-May-07	ND (2.0)	5.94	24.8	ND (1.0)	ND (1.0)	ND (1.0)	16200	ND (1.0)	ND (1.0)	ND (0.2)	49.3	ND (1.0)	12.8	ND (1.0)	ND (1.0)	2.75	ND (10)
MW-20-130 FD	03-May-07	ND (2.0)	5.92	24.7	ND (1.0)	ND (1.0)	ND (1.0)	14800	ND (1.0)	ND (1.0)	ND (0.2)	47.9	ND (1.0)	11.9	ND (1.0)	ND (1.0)	3.13	ND (10)
MW-25	06-Mar-07	ND (2.0)	1.91	41.3	ND (1.0)	ND (1.0)	ND (1.0)	951	ND (1.0)	ND (1.0)	ND (0.2)	3.36	1.22	2.04	ND (1.0)	ND (1.0)	11.1	ND (10)
MW-34-80	05-Mar-07	ND (2.0)	1.30	29.9	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	13.3	1.53	ND (1.0)	ND (1.0)	ND (1.0)	1.61	ND (10)
MW-34-80	30-Apr-07	ND (2.0)	1.75	31.8	ND (10)	ND (1.0)	ND (1.0)	1.10	ND (1.0)	ND (1.0)	ND (0.2)	14.9	3.47	ND (1.0)	ND (1.0)	ND (1.0)	1.67	ND (10)
MW-37D	07-Mar-07	ND (2.0)	3.17	40.9	ND (1.0)	ND (1.0)	1.17	1310	ND (1.0)	ND (1.0)	ND (0.2)	45.1	ND (1.0)	3.42	ND (1.0)	ND (1.0)	5.03	ND (10)
MW-37D	03-May-07	ND (2.0)	3.43	40.4	ND (1.0)	ND (1.0)	ND (1.0)	1260	ND (1.0)	ND (1.0)	ND (0.2)	47.5	1.50	2.78	ND (1.0)	ND (1.0)	5.01	ND (10)

#### NOTES:

ND not detected at listed reporting limit

FD field duplicate sample

concentration or reporting limit estimated by laboratory or data validation U.S. Environmental Protection Agency (USEPA) MCL as of January 23, 2006

NE not established

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

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

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

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

Metals analyzed by Methods SW6010B, SW6020A, and SW7470A.

Analytes detected above MCL are in bold.

TABLE 5
RFI Groundwater TPH, VOC and SVOC Results, May 2007
PG&E Topock Groundwater and Surface Water Monitoring Program

Metho	od Analyte	Units	MW-10 5/3/2007	MW-10 (FD) 5/3/2007	MW-11 5/3/2007	MW-12 5/3/2007	MW-20-070 5/3/2007	MW-20-100 5/3/2007	MW-20-130 5/3/2007	MW-24A 7/18/2007	MW-25 5/4/2007
8015M	TPH as diesel	μg/L	ND (470)	ND (470)	ND (470)	ND (500)				ND (480)	ND (500)
	TPH as gasoline	μg/L	ND (100)	ND (100)	ND (100)	ND (100)				ND (100)	ND (100)
	TPH as motor oil	μg/L	ND (470)	ND (470)	ND (470)	ND (500)				ND (480)	ND (500)
8260	1,1,1,2-tetrachloroethane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,1,1-trichloroethane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,1,2,2-tetrachloroethane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,1,2-trichloroethane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,1,2-Trichlorotrifluoroethane (Freon 113)	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,1-dichloroethane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,1-dichloroethene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,2,3-trichloropropane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,2,4-trichlorobenzene	μg/L	ND (1.0) J	ND (1.0) J	ND (1.0) J	ND (1.0) J	ND (1.0) J	ND (1.0) J	ND (1.0) J		ND (1.0)
	1,2,4-trimethylbenzene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0) J
	1,2-dibromo-3-chloropropane	μg/L	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)		ND (2.0)
	1,2-dibromoethane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,2-dichlorobenzene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,2-dichloroethane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,2-dichloropropane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,3,5-trimethylbenzene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,3-dichlorobenzene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	1,4-dichlorobenzene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	2-chlorotoluene (o-chlorotoluene)	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Acetone	μg/L	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)		ND (10) J
	Acrolein	μg/L	ND (20) J	ND (20) J	ND (20) J	ND (20) J	ND (20) J	ND (20) J	ND (20) J		ND (20) J
	Acrylonitrile	μg/L	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)		ND (20) J
	Benzene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Bromobenzene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Bromodichloromethane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Bromoform	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Bromomethane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0) J

 $G: \label{lem:condition} G: \label{lem:condi$ 

TABLE 5
RFI Groundwater TPH, VOC and SVOC Results, May 2007
PG&E Topock Groundwater and Surface Water Monitoring Program

Metho	od Analyte	Units	MW-10 5/3/2007	MW-10 (FD) 5/3/2007	MW-11 5/3/2007	MW-12 5/3/2007	MW-20-070 5/3/2007	MW-20-100 5/3/2007	MW-20-130 5/3/2007	MW-24A 7/18/2007	MW-25 5/4/2007
8260	Carbon disulfide	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Carbon tetrachloride	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Chlorobenzene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Chloroethane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Chloroform	μg/L	1.10	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.30	ND (1.0)		ND (1.0)
	Chloromethane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Cis-1,2-dichloroethene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Dibromochloromethane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Dichlorodifluoromethane	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Ethylbenzene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Isobutyl Alcohol	μg/L	ND (80)	ND (80)	ND (80)	ND (80)	ND (80)	ND (80)	ND (80)		ND (80)
	Isopropylbenzene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	M+p-xylenes	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Methyl Ethyl Ketone	μg/L	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)		ND (10)
	Methyl isobutyl ketone	μg/L	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)		ND (10)
	Methyl t-butyl ether (mtbe)	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Methylene chloride	μg/L	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)		ND (5.0)
	N-butylbenzene	μg/L	ND (1.0) J	ND (1.0) J	ND (1.0) J	ND (1.0) J	ND (1.0) J	ND (1.0) J	ND (1.0) J		ND (1.0)
	N-propylbenzene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	O-xylene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Sec-butylbenzene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0) J
	Styrene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	T-butylbenzene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Tetrachloroethene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Toluene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Total xylenes	μg/L	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)		ND (2.0)
	Trans-1,2-dichloroethene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Trichloroethene	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
	Vinyl chloride	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)		ND (1.0)
8270C	1,2,4-trichlorobenzene	μg/L	ND (9.4)	ND (9.4)	ND (9.5) J	ND (11)	ND (9.4)	ND (9.6)	ND (9.5)		ND (10)

TABLE 5
RFI Groundwater TPH, VOC and SVOC Results, May 2007
PG&E Topock Groundwater and Surface Water Monitoring Program

Method Analyte		Units	MW-10 5/3/2007	MW-10 (FD) 5/3/2007	MW-11 5/3/2007	MW-12 5/3/2007	MW-20-070 5/3/2007	MW-20-100 5/3/2007	MW-20-130 5/3/2007	MW-24A 7/18/2007	MW-25 5/4/2007
8270C	1,2-dichlorobenzene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	1,3-dichlorobenzene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	1,4-dichlorobenzene	μg/L	ND (9.4)	ND (9.4)	ND (9.5)	ND (11)	ND (9.4)	ND (9.6)	ND (9.5)		ND (10)
	2,4,5-trichlorophenol	μg/L	ND (47) J	ND (47) J	ND (47) J	ND (55) J	ND (47) J	ND (48) J	ND (47) J		ND (50) J
	2,4,6-trichlorophenol	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	2,4-dichlorophenol	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	2,4-dimethylphenol	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	2,4-dinitrophenol	μg/L	ND (19) J	ND (19) J	ND (19) J	ND (22) J	ND (19) J	ND (19) J	ND (19) J		ND (20) J
	2,4-dinitrotoluene	μg/L	ND (9.4)	ND (9.4)	ND (9.5)	ND (11)	ND (9.4)	ND (9.6)	ND (9.5)		ND (10)
	2,6-dinitrotoluene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	2-Chloronaphthalene	μg/L	ND (47) J	ND (47) J	ND (47) J	ND (55) J	ND (47) J	ND (48) J	ND (47) J		ND (50) J
	2-chlorophenol	μg/L	ND (9.4)	ND (9.4)	ND (9.5) J	ND (11)	ND (9.4)	ND (9.6)	ND (9.5)		ND (10)
	2-methylnaphthalene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	2-methylphenol	μg/L	ND (47) J	ND (47) J	ND (47) J	ND (55) J	ND (47) J	ND (48) J	ND (47) J		ND (50) J
	2-nitroaniline	μg/L	ND (47) J	ND (47) J	ND (47) J	ND (55) J	ND (47) J	ND (48) J	ND (47) J		ND (50) J
	3,3'-dichlorobenzidene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	3-nitroaniline	μg/L	ND (47) J	ND (47) J	ND (47) J	ND (55) J	ND (47) J	ND (48) J	ND (47) J		ND (50) J
	4,6-dinitro-2-methylphenol	μg/L	ND (19) J	ND (19) J	ND (19) J	ND (22) J	ND (19) J	ND (19) J	ND (19) J		ND (20) J
	4-chloroaniline	μg/L	ND (19) J	ND (19) J	ND (19) J	ND (22) J	ND (19) J	ND (19) J	ND (19) J		ND (20) J
	4-methylphenol	μg/L	ND (47) J	ND (47) J	ND (47) J	ND (55) J	ND (47) J	ND (48) J	ND (47) J		ND (50) J
	4-nitroaniline	μg/L	ND (47) J	ND (47) J	ND (47) J	ND (55) J	ND (47) J	ND (48) J	ND (47) J		ND (50) J
	4-nitrophenol	μg/L	ND (47)	ND (47)	ND (47)	ND (55)	ND (47)	ND (48)	ND (47)		ND (50)
	Acenaphthene	μg/L	ND (9.4)	ND (9.4)	ND (9.5)	ND (11)	ND (9.4)	ND (9.6)	ND (9.5)		ND (10)
	Acenaphthylene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	Anthracene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	Benzo(a)anthracene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	Benzo(a)pyrene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	Benzo(b)fluoranthene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	Benzo(ghi)perylene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J
	Benzo(k)fluoranthene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J

TABLE 5
RFI Groundwater TPH, VOC and SVOC Results, May 2007
PG&E Topock Groundwater and Surface Water Monitoring Program

Mothe	Method Analyte		MW-10 5/3/2007	MW-10 (FD)	MW-11	MW-12	MW-20-070	MW-20-100	MW-20-130	MW-24A	MW-25	
		Units		5/3/2007	5/3/2007	5/3/2007	5/3/2007	5/3/2007	5/3/2007	7/18/2007	5/4/2007	
8270C	Bis (2-ethylhexyl) phthalate	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Bis(2-chloroethyl)ether	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Bis(2-chloroisopropyl)ether	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Butyl benzyl phthalate	μg/L	ND (19) J	ND (19) J	ND (19) J	ND (22) J	ND (19) J	ND (19) J	ND (19) J		ND (20) J	
	Chrysene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Di-N-butyl phthalate	μg/L	ND (19) J	ND (19) J	ND (19) J	ND (22) J	ND (19) J	ND (19) J	ND (19) J		ND (20) J	
	Di-N-octyl phthalate	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Dibenzo(a,h)anthracene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	dibenzofuran	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	diethyl phthalate	μg/L	ND (19) J	ND (19) J	ND (19) J	ND (22) J	ND (19) J	ND (19) J	ND (19) J		ND (20) J	
	dimethyl phthalate	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Fluoranthene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Fluorene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Hexachlorobenzene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Hexachlorobutadiene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Hexachloroethane	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Indeno(1,2,3-cd)pyrene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Isophorone	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	N-Nitroso-di-n-propylamine	μg/L	ND (9.4)	ND (9.4)	ND (9.5)	ND (11)	ND (9.4)	ND (9.6)	ND (9.5)		ND (10)	
	N-nitrosodiphenylamine	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Naphthalene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Nitrobenzene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Pentachlorophenol/pcp	μg/L	ND (19)	ND (19)	ND (19)	ND (22)	ND (19)	ND (19)	ND (19)		ND (20)	
	Phenanthrene	μg/L	ND (9.4) J	ND (9.4) J	ND (9.5) J	ND (11) J	ND (9.4) J	ND (9.6) J	ND (9.5) J		ND (10) J	
	Phenol	μg/L	ND (9.4)	ND (9.4)	ND (9.5)	ND (11)	ND (9.4)	ND (9.6)	ND (9.5)		ND (10)	
	Pyrene	μg/L	ND (9.4)	ND (9.4)	ND (9.5)	ND (11)	ND (9.4)	ND (9.6)	ND (9.5)		ND (10)	

#### TABLE 5

RFI Groundwater TPH, VOC and SVOC Results, May 2007 PG&E Topock Groundwater and Surface Water Monitoring Program

#### Notes:

FD field duplicate

ND parameter not detected at the listed reporting limit (listed in the adjacent parenthesis)

analyte was present, but reported value was estimated not collected or not available

micrograms per liter μg/L

Detected results are circled

**TABLE 6**New Park Moabi Well Results
PG&E Topock Groundwater and Surface Water Monitoring Program

			PM-04	PM-04	
Group	Analyte	Units	5/2/2007	7/18/2007	
Anion	Bromide	mg/L	ND (0.2)		
	Chloride	mg/L	330		
	Nitrate as Nitrogen	mg/L	25.9	2.80	
	Sulfate	mg/L	73.9		
General	Alkalinity, as carbonate	mg/L	ND (5.0)		
	Alkalinity, bicarb as CaCO3	mg/L	67.5		
	Alkalinity, total as CaCO3	mg/L	67.5		
	Ammonia as nitrogen	mg/L	ND (0.5)		
	рН	PHUNITS	7.99 J		
	Specific conductance	μS/cm	1530		
	Sulfide	mg/L	ND (2.0)		
	Total dissolved solids	mg/L	928		
	Total organic carbon	mg/L	0.376		
Metals (Dissolved)	Antimony, dissolved	μg/L	ND (2.0)		
	Arsenic, dissolved	μg/L	ND (1.0)		
	Barium, dissolved	μg/L	112		
	Beryllium, dissolved	μg/L	ND (1.0)		
	Cadmium, dissolved	μg/L	ND (1.0)		
	Chromium	μg/L	ND (1.0)*		
	Cobalt, dissolved	μg/L	ND (1.0)		
	Copper, dissolved	μg/L	1.96		
	Hexavalent chromium	μg/L	ND (0.2)		
	Lead, dissolved	μg/L	ND (1.0)		
	Mercury, dissolved	μg/L	ND (0.2)		
	Molybdenum, dissolved	μg/L	6.02		
	Nickel, dissolved	μg/L	6.30		
	Selenium, dissolved	μg/L	1.45		
	Silver, dissolved	μg/L	ND (1.0)		
	Thallium, dissolved	μg/L	ND (1.0)		
	Vanadium, dissolved	μg/L	1.57		
	Zinc, dissolved	μg/L	605 J		

ND parameter not detected at the listed reporting limit (listed in the adjacent parenthesis)

(---) not collected or not available

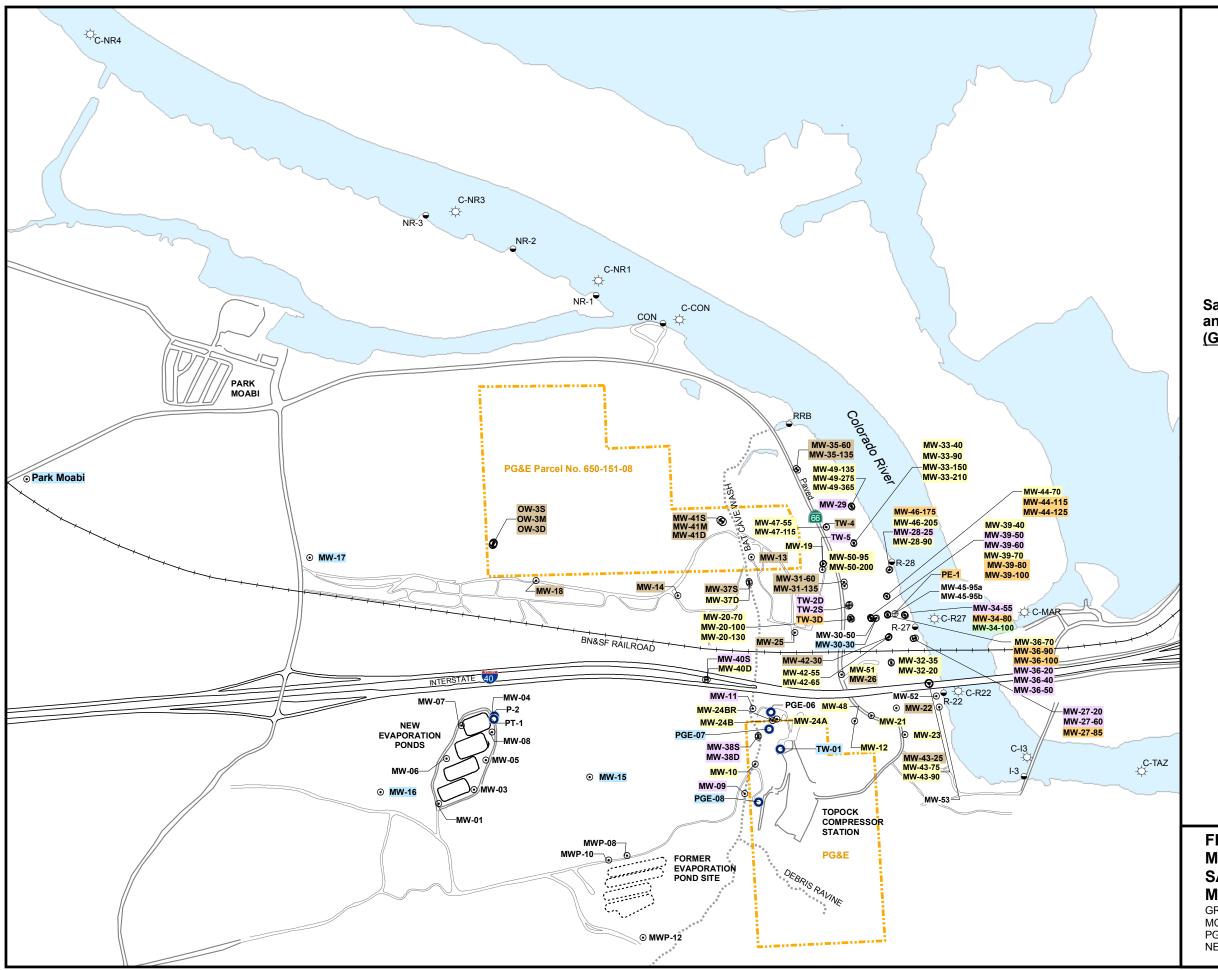
J analyte was present but reported value is estimated

unfiltered chromium

μg/L micrograms per liter mg/L milligrams per liter 0/00 differences from glob

0/00 differences from global standards in parts per thousand

NTU nephelometric turbidity units µS/cm microSiemens per centimeter



#### **LEGEND**

- Groundwater Monitoring Well
- Test Well or Supply Well (Inactive)
- ⊕ Extraction Well
- River Channel Surface Water Monitoring Location
- Shoreline Surface Water Monitoring Location

PG&E Property Boundary

## Sampling Frequency for Groundwater and Surface Water Monitoring Program (GMP) - May 2007

PGE-08 Biennial Sampling

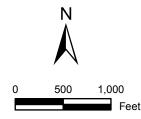
MW-09 Annual Sampling

MW-25 Semi-Annual Sampling

MW-10 Quarterly Sampling

MW-34-100 Bi-Weekly Sampling

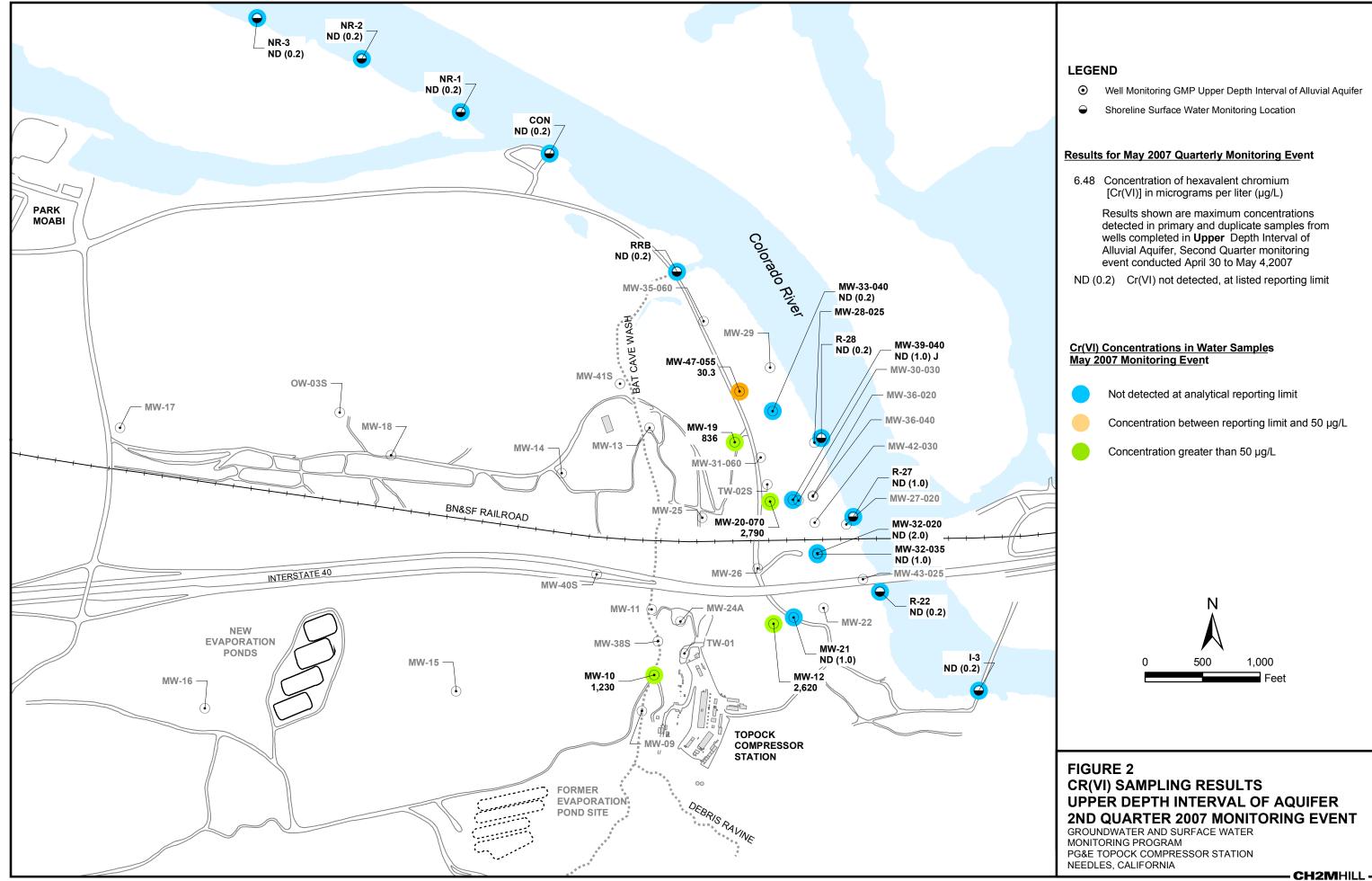
Note: Shoreline and river channel locations are sampled monthly during periods of low river stage (November - January).
Otherwise they are sampled quarterly.

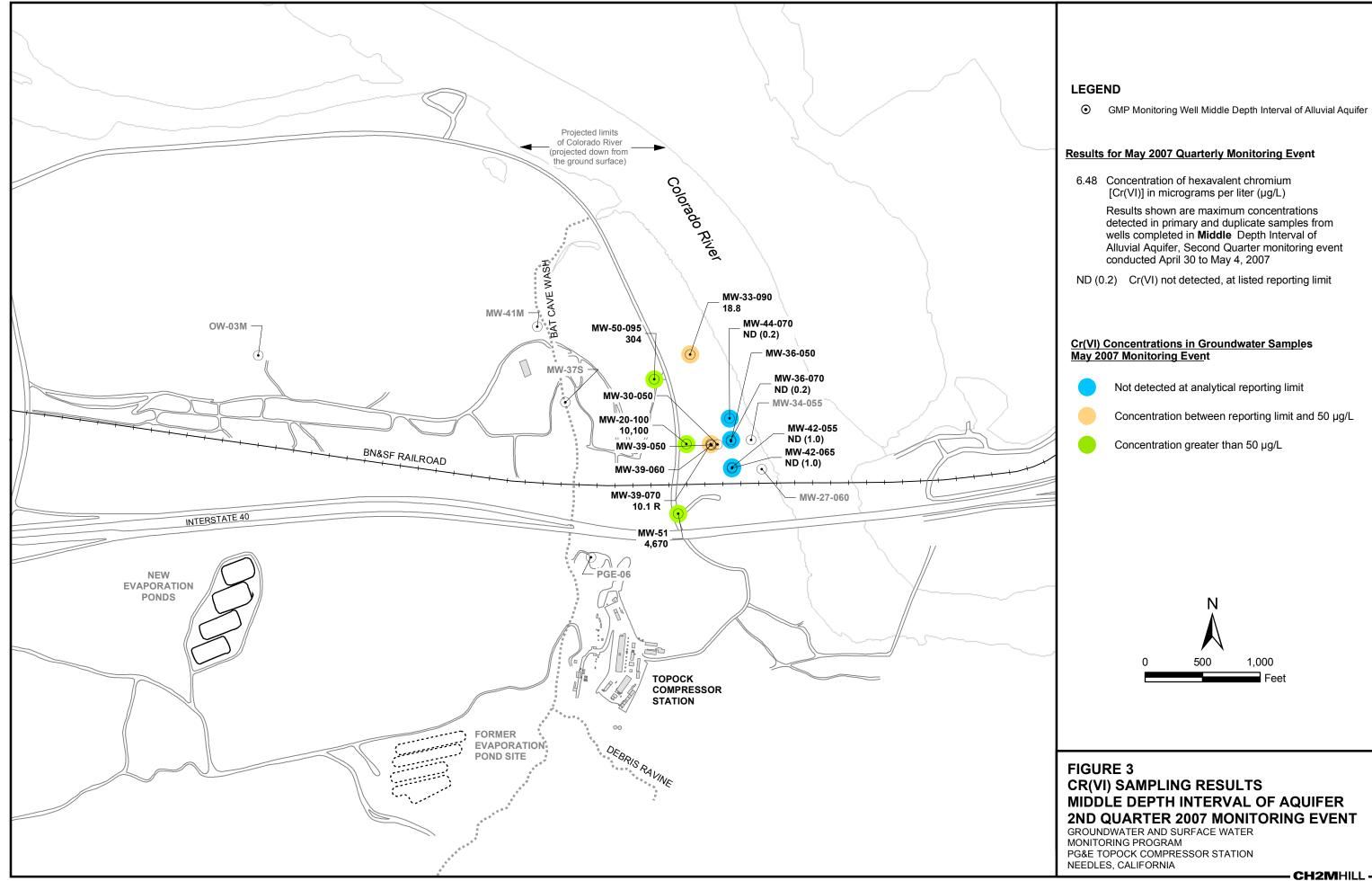


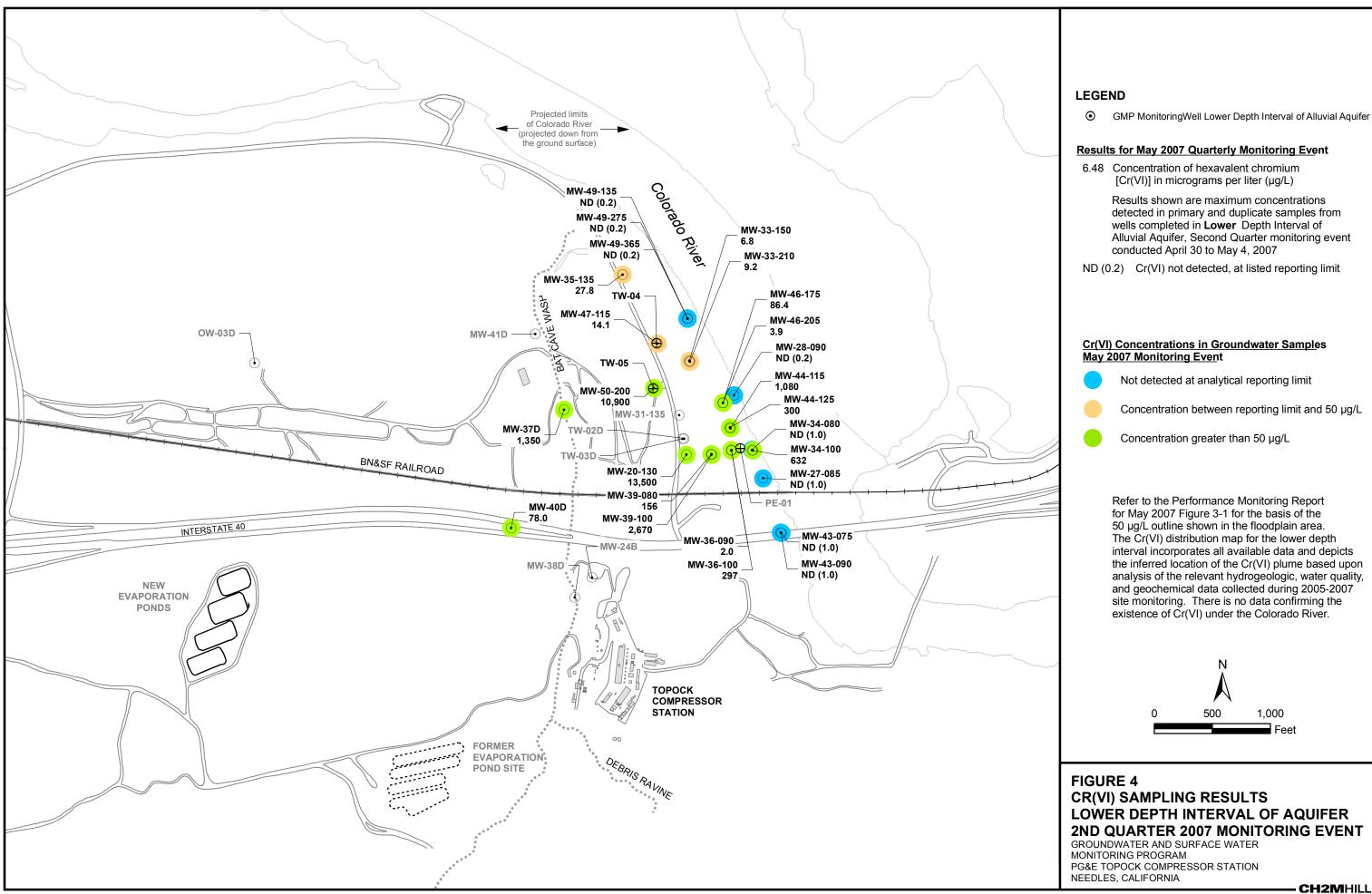
California State Plane NAD83 Zone 5 US Feet

# FIGURE 1 MONITORING LOCATIONS AND SAMPLING FREQUENCY FOR GMP MAY 2007

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







CH2MHILL -



#### **ATTACHMENT 2**

## **Special Sampling Activities at MW-23**

## **Background**

Well MW-23 is located near the Historic Route 66 sign just outside the gate at the bottom of the drive leading up to the compressor station. Well MW-23 is screened between 60-80 feet below ground surface. Although classified as a shallow zone well, MW-23 is screened in bedrock. As is typical of bedrock wells at the Topock site, MW-23 produces only small amounts of water.

MW-23 is sampled quarterly as part of the routine groundwater monitoring program. Hexavalent chromium [Cr (VI)] was non-detect from the initial sample in 1998 through 2003. Note that the analytical method used prior to mid-2003 had a detection limit of 10 parts per billion (ppb). From 2004 to present, typical Cr(VI) detections in MW-23 have been 15 ppb or less. These concentrations are consistent with background concentrations of Cr(VI) at the Topock site.

Anomalously high Cr(VI) results were observed in two recent samples from MW-23. In December 2006, a Cr(VI) value of 1,920 ppb was reported in one of two duplicate samples (samples collected on the same day) from this well. The anomalously high sample was re-analyzed at the lab, and the elevated Cr(VI) concentration was confirmed. This anomalously high result was "discounted" because four out of four samples from MW-23 collected on that day (the primary sample of total chromium [Cr(T)] and the duplicate Cr(VI) and Cr(T) samples) contained Cr(VI) in the typical range of 15 ppb or less. Because the elevated Cr(VI concentration in the primary sample was completely out of range of the duplicate, as well as out of range of any previous samples from this well, the anomalously high result was flagged as "rejected" during the data validation process. This is consistent with standard practices when there are large discrepancies between primary and duplicate samples and/or large deviations from historical trends in a single sample.

The second anomalous sample was taken in March 2007 and contained 1,020 ppb Cr(VI). No duplicate was collected on this day, but a reanalysis of the sample and a careful review of all field and lab procedures did not reveal any sample collection or lab testing irregularities. A subsequent sample collected in early May 2007 from MW-23 contained Cr(VI) at the more typical concentration of 14.4 ppb.

To identify potential causes of these anomalies, a thorough review of sampling procedures, equipment, and observed field conditions was performed. No noteworthy variation in sample collection equipment, sample handling and transport, or sample analytic procedures was identified. However, one field observation of potential significance was noted. MW-23 is a low-yield well that typically pumps dry during purging and recovers at a very slow rate. Because of this, water samples are typically collected on the day the following purging, after the well has had time to recharge. However, both the December and March samples from MW-23 were able to be collected on the same day that the well was purged. The

ATTACHMENT 2, MW-23.DOC 2-1

December sample was collected within about 2.5 hours after the well was purged. The March sample was collected immediately after the well was purged. It is possible that this variation from typical sampling protocol may have been related to the unusually high Cr(VI) concentrations in the December and March samples.

After consultation with and at the direction of the Department of Toxic Substance Control, a special sampling effort was initiated for well MW-23 in June 2007 in an attempt to better understand how this well responds to different purging rates and to evaluate the possibility that corrosion from the stainless-steel pump installed in the well might be the source of the elevated Cr(VI) concentrations.

## **Procedures**

The sampling test at MW-23 consisted of three stages, each designed to test a different purging scenario:

- To evaluate the hypothesis that corrosion of the existing sampling pump may have contributed to the high detections, two samples were collected while purging with the existing pump. This initial test was run on July 27, 2007. The pump was run at full speed during the purge. Three samples were collected. One was collected at the beginning of the purge after the volume of water purged was approximately equal to the volume contained in the pump column. The second sample was collected just before the well ran dry. The third sample was collected after the well had recharged for approximately 3 hours. All samples were analyzed for dissolved and total Title 22 metals. At the end of this stage, the dedicated pump was pulled from the well. No significant corrosion or pitting was observed on the stainless-steel casing of the pump.
- The second stage was designed to obtain a series of samples during a slow purge using a smaller adjustable-flow pump. A variable-speed electric submersible pump (Grundfos Redi-flo II) was installed in the well at a depth of approximately 70 feet, near the middle of the screened interval. The purge rate was controlled to slow the drawdown. The original plan called for samples to be collected every 5 minutes as the water level in the well declined. When the water level reached a depth near the pump, the flow rate was to be decreased so that more samples could be collected with the water level at or near equilibrium and the well in a drawdown condition. However, even at the lowest flow rate, the pump could operate (0.10 to 0.15 gallons per minute), the water level continued to decline and the well purged dry. Therefore, after the initial eight samples were collected (up until 10:00 a.m. on July 28, 2007), the well was allowed to recharge for 3 hours, purging was reinitiated, and four more samples were collected (from 1:20 to 1:48 p.m.). The following day (July 29, 2007), an additional sample was collected after the well had recharged.

All samples were analyzed for Cr(VI) and specific conductance at the IM No. 3 treatment plant laboratory onsite. Four samples were selected to be analyzed for arsenic, Cr(T), manganese, and molybdenum at an offsite certified laboratory. Both filtered and unfiltered aliquots were analyzed.

The following week three HydraSleeve™ bag samplers were deployed in the well at depths of 64, 72, and 80 feet below the top of casing to determine if there was a significant

ATTACHMENT 2, MW-23.DOC 2-2

concentration gradient within the screened interval. The HydraSleeve<sup>TM</sup> samplers remained in the well for approximately 20 days (June 29 to July 19, 2007), then the samples were retrieved and analyzed for Cr(VI) at the onsite laboratory.

## **Results and Conclusions**

Table 1 presents the results of the MW-23 sampling test. The Cr(VI) detections during the test of ranged from non-detect to 42 micrograms per liter ( $\mu g/L$ ) from all stages of the test. The detection limit for the onsite laboratory analyses was 10  $\mu g/L$ . The Cr(T) results from the offsite lab largely agree with the Cr(VI) results, with one exception. The Cr(T) results from the last sample collected with the old dedicated pump were detections of 55.4  $\mu g/L$  and 92.3  $\mu g/L$  from the filtered and unfiltered samples, respectively.

The depth specific samples from the HydraSleeve<sup>TM</sup> samplers showed a slight increasing concentration trend with depth across the screened interval. The Cr(VI) concentrations measured from these samples were 12  $\mu$ g/L, 17  $\mu$ g/L, and 22  $\mu$ g/L at depths of 64, 72, and 80 feet below the top of casing, respectively (Table 1).

The anomalous concentrations and pumping conditions observed in December 2006 and March 2007 were not reproducible in the sampling test. Although the maximum detection of  $49.4~\mu g/L$  was greater than is typically observed in MW-23, it did not approach the anomalous detections of  $1,920~\mu g/L$  and  $1,020~\mu g/L$ . PG&E plans to continue quarterly sampling of well MW-23. An electronic water level measuring and recording device (transducer and data logger) has now been installed in MW-23 to provide continuous water level data. Future quarterly samples will be carefully analyzed and the data will be reviewed for any future data trends.

ATTACHMENT 2, MW-23.DOC 2-3

TABLE 1 Groundwater Results Summary for well MW-23 PG&E Topock Groundwater and Surface Water Monitoring Program

		IM3 Lab Analyses		Certified Lab Analyses																		
		Sample	Hexavalent	•							Total											
Sample Da	te and Time	Туре	Chromium	Conductance	Antimony	Arsenic	Barium	Beryllium	Cadmiun	n Cobalt	Chromium	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Initial Sampling																						
27-Jun-07	11:45:00 AM	Filtered			ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	9.70	ND (10)	2.10	ND (10)		ND (5.0)	ND (20)	5.80	ND (5.0)	ND (1.0)	ND (5.0)	ND (20)
		unfiltered	ND (10) S		ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	8.90	82.2	8.60	ND (10)	ND (0.2)	6.80	56.8	6.70	ND (5.0)	ND (1.0)	ND (5.0)	107
27-Jun-07	11:47:00 AM	Filtered			9.60	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	7.30	ND (10)	4.40	33.8		7.30	ND (20)	5.90	ND (5.0)	ND (1.0)	ND (5.0)	ND (20)
		unfiltered	12.0 S		10.2	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	8.50	73.0	17.2	30.9	ND (0.2)	7.70	56.3	6.00	ND (5.0)	ND (1.0)	ND (5.0)	145
27-Jun-07	2:59:00 PM	Filtered			ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	5.40	55.4	ND (10)	17.0	168		ND (5.0)	78.0	ND (5.0)	ND (5.0)	ND (1.0)	14.1	52.2
		unfiltered	ND (10) S		3.00	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	9.50	92.3	69.4	25.1	241	ND (0.2)	6.90	132	5.20	ND (5.0)	ND (1.0)	23.2	166
Drawdown Sampling																						
28-Jun-07		unfiltered	39.0 S	17330 S																		
28-Jun-07	8:55:00 AM	Filtered				ND (5.0)					29.2			21.5		5.70						
		unfiltered	39.0 S	17410 S		ND (5.0)					29.7			24.4		6.50						
28-Jun-07	9:08:00 AM	Filtered				ND (5.0)					29.7			ND (10)		6.40						
		unfiltered	37.0 S	17300 S		ND (5.0)					32.3			ND (10)		7.50						
28-Jun-07	9:11:00 AM	unfiltered	29.0 S	17430 S																		
28-Jun-07	9:20:00 AM	unfiltered	24.0 S	17560 S																		
28-Jun-07	9:25:00 AM	unfiltered	19.0 S	17750 S																		
28-Jun-07	9:32:00 AM	unfiltered	18.0 S	17870 S																		
28-Jun-07	10:00:00 AM	Filtered				ND (5.0)					32.8			ND (10)		6.60						
		unfiltered	32.0 S	17560 S		ND (5.0)					27.1			ND (10)		5.80						
28-Jun-07	1:20:00 PM	unfiltered	ND (10) S	18640 S																		
28-Jun-07	1:32:00 PM	unfiltered	ND (10) S	18090 S																		
28-Jun-07	1:41:00 PM	unfiltered	15.0 S	17870 S																		
28-Jun-07	1:48:00 PM	Filtered				ND (5.0)					20.0			65.3		ND (5.0)						
		unfiltered	21.0 S	17730 S		ND (5.0)					17.9			124		8.50						
29-Jun-07	8:39:00 AM	Filtered				ND (5.0)					32.4			22.7		6.30						
		unfiltered	42.0 S	17540 S		ND (5.0)					49.4			34.1		8.30						
Hydro Sleeve Samplin	g Depth, ft																					
19-Jul-07	64	unfiltered	12.0 S																			
	72	unfiltered	17.0 S																			
	80	unfiltered	22.0 S																			

NOTES:

ND not detected at listed reporting limit

Screening Level data analyzed by on-site laboratory

feet below top of casing Metals analyzed by Methods SW6010B, SW6020A, and SW7470A. (---) not collected or not available

All results are reported in µg/L except specif conductance which is in microSiemens per centimeter.



											ampling Log
Project N Job Nu	imber 35463	opock CIS 1.MP.02.CI.00	Field Conditio	ns			Sampling		2007-CIS- 5/3/C of		
Field					QC San	ple ID NA				QC Sample	Time
VeII/Sam	ple Number		w-09					Ded. Pun	np 405		=
urge Star	t Time _ 09 3	30%-0935	<i>w</i>	Min	Purge I Purge Volume (	gal)/(L) 17	ga Pi	ırge Rate (gı	pm)/(mLpm	3	
	Flow Cell(Y)	IN 09"	10					50.000000000		EWORP	Comments
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity ム 対S/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	mv	(See description below
	0940		7.50	3214	8.0	4.94	28.8		1.93	123	Purp Surges - 3+/min
	0935		7.38	3280	4.6	7.92	29.1	1.56	1.95	121	to less them 1/ming
	0943	1 7	7.42		4.0	7.72	29.2	1.56	1.96	120	
	0946	18		3266	2.2	7.50	29.3		1.96	119	
	0949	27	7.44	2260	L. L. L						
	-				-						
		1									
							-				11-11-11-11-11-11-11-11-11-11-11-11-11-
			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA Y	+/- 10 mV	
	Stabilization C		+	Y	Y	Y	NA	Υ	1_7_	166	
	ers Stablize prior to d measurement	(10/12/2006)	7.24	3490	2.04	11.39	28.69	0.18		100	
e measurer	ments consistent v						NA_		other		
mple Tim	e 0955	Sample Locat	ion:	pump tubing	well port	spig	ot _~	bailer	Other		
mments:											
					Meas	ure Point: W	ell TOC	Steel Casing	, WAT	ER LEVEL ME	ETER SERIAL NUMBER:
itial Depth	n to Water (ft BT	roc): \$1.11	thtoo's								Transducer
eld meas	ured confirmation	on of Well Depth (f	(89 44)		Initial DT	W / Before Ren	noval	Approx. 5 r	nin After Re	einstallation	Time of Removal
D (Well D	Depth - from dat	abase) ft btoc ght) = WD-Initial D	epth	8.33	Time	Initial D	TW	Time		inal DTW . 97	Time of Reinstallation
WH (Stan	on per diameter	r) 2"= 0.17, 4"= 0.0	V								_1
(Volume	as per diameter g Volume = D*S	:WH	5.20		Comment	s:					
	ing Volumes =		5				arana arananana		Solids.	race, Small Q	u, Med Qu, Large Qu, Particulate, Silt, Sand
HEE CASI	arey vellow	brown, black, clo	udy, green		Odor: non	e, sulphur, orga	nic, other		Condo	::::::::::::::::::::::::::::::::::::::	Page 9

										Topock Sa	mpling Log
Project N	ımber 345631	opock GMP 1,MP,02.GM	Field Condition	ns			Sampling	Event Date	2007-GMF 5/3/0	7	
Field	Team 1		-leid Corlaino							QC Sample T	ime Votales only
	nple Number Int Time 10:	23		Min.	QC Sam Purge N Purge Volume (	Method	-96-125 Pu		mp1 pm)/(mLpm	109	
Water	Time	Vol. Purged gallons / liters	рН	Conductivity	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
Level ===== 77,41	10:25	8	7,45	3491	7.2	2.47	28.62		2.07	170	
77.41	10:27	16	7.49	3381	1.9	2.81 3.19	29.09	1.64	2.05	109.9	
4.55 4.55	10:29	24 32	7.51	33 25 33 40	1.3	3.38	29,23	1.60	200	107.9	
74.61	10:33	40	7.52	3282	1.5	3.51	29.26	1.54	1.97	106.4	
74.61	10:35	48	7.53	363(	1. 0						
			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stabilization Co		-	<u> </u>			NA				
	ers Stablize prior to		7.34	2870	0.8	4.95	28.76	0.1		164	
revious Fiel	d measurement	(3/6/2007)	7.34	-			NA				
	ments consistent w	Sample Locat	ion: p	oump tubing	well port	spig	ot	bailer	other		
nitial Depti	h to Water (ft BT	oc): 74,	15		Meas	ure Point: W	ell TOC	Steel Casing	g WAT		TER SERIAL NUMBER:
initial Depti	ured confirmatio	n of Well Depth (							min After Re		Time of Removal
VD (Well I	Denth - from data	abase) ft btoc	(96.93)		Initial DT	W / Before Ren		Approx. 5	min Alter Re	inal DTW	Time of Reinstallation
	ding Water Heic	ht) = WD-Initial [	Depth	27,68 (4 in)	Time	Initial D	100	Time			THIE OF RELIGIOUS.
D (Volume	as per diameter	) 2"= 0.17, 4"= 0.	4 97		Comment	s:					
	ig Volume = D*S	WH	4.9				V-0004880				LO. Lerge Ou Particulate Silt Sand
Three Cas	ing Volumes = -				04	e sulphur, orga	nic, other		Solids:	Trace, Small Qu	ı, Med Qu, Large Qu, Particulate, Silt, Sand Page 2

Initial Depth to Water	er (ft BTOC):	66.0	7
Field measured con		Depth (ft btoc)	:
MD MAIL Death - fr	om database) ft b	otoc (86.11)	
SWH (Standing Wa	ter Height) = WD	-Initial Depth _	20.09
D (Volume as per di	ameter) 2"= 0.17	', 4"= 0.66, 1"=1	0.041
One Casing Volume	= D*SWH	12.0	5
Three Casing Volum		36.2	
Color: clear, grey,		ack, cloudy, gre	een

			1f	Transducer
Initial DTW	Before Removal	Approx. 5 mi	n After Reinstallation	Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
		1321	66.11	

Odor: frone sulphur, organic, other

										Topock S	ampling Log
Project Na	ame PGE	Topock GMP					Sampling		2007-GMF		
Job Nui		31 MP.02.GM						Date	503-	··· (	
Field T			Field Conditio	ns Sunny				Page	of of		1 / A
Well/Sam	ple Number	MW-12-125			QC San	mple ID NA Method 7	210-	Ded. Pu	mp NO	QC Sample	Time NA
	Time \\				Purge	Method K	PARTO			3	
, – 3	Flow Cell			Min.	Purge Volume	691/(L) 44.	72 bi	irge Rate (	pm)/(mLpm		
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
28.22	1147	1	8.22	5,43	5.3	7,52	28.1	0.3	3.4	+114	
		12	3,23	5,39	3,3	7.39	28,1	0.3	3,4	+114	
28.23	1144		8.24	5.44	2.5	735	28,2	100 mm 100 March	3.4	+114	
28.23	1146	18			1.3	7.34	281	0,3	3.4	+114	
28.23	1148	24	8,25	5.48	0.9	7.32	28.2		3,5	+114	
28.24	1150	30	8.25	5.53				0.3	3.5	+115	
28.24	1152	36	8.26	5.6	0.6	7,30	28:2	0.3	3.5	H15	
28.24	1154	42	8.26	5.59	0.4	7.29	28.2			H15	
28.24	1156	48	8,26	5,60	0.4	7.28	28.2	0.3	3.5	(1)	
			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	tabilization C		155	425	425	YES	NA	YES	YES	YES	
	Stablize prior to	(3/6/2007)	VES 8.17	4940	1.2	6.67	28.03	0.3		117	
Previous Field	ents consistent v		425	histor	lower	higher	NA	YES	NA	YES	
Sample Time	CW = 1	Sample Locati		ump tubing 🔀	well port	spigo	ot	bailer	other		
Comments: _											
	o Water (ft BT	oc): 730	3		Measi	ure Point: We	шт <u>б</u> с s	teel Casing	WATI		TER SERIAL NUMBER: \2245
Ciold moseur	ed confirmation	n of Well Depth (fi	btoc):								Fransducer NA
WD (Well De	oth - from data	abase) ft btoc		Initial DT	W / Before Rem			nin After Rei		Time of Removal	
WD (Well Depth - from database) ft btoc (50.4)  SWH (Standing Water Height) = WD-Initial Depth 27.37					Time	Initial DT		Time	Fi	inal DTW	Time of Reinstallation
D (Volume as	s per diameter	) 2"= 0.17, 4"= 0.6	6, 1"=0.041	(4 in)	1133	78.03	<u> </u>				
One Casina	Volume = D*S	WH 19,16		Comments	<b>:</b>						
Three Casing	y Volumes = -	44,28			Solids: Frace Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand						

Odor: fione, sulphur, organic, other

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

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

Page 4 of 50

Project N Job Nu Field	ımber 35463	Topock CIS 31.MP.02.CI.00	Field Condition	ns Hazy, 7	Soficalm		Sampling	Event	2007-CIS- 5   4   0 1 of		
Well/Sam	nple Number	CIS-026 N	W-15		QC San	nple ID NA Method	75 80	_ Ded. Pur	mp	QC Sample	Time
Water	Flow Cell	Vol. Purged	рН	Conductivity	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
Level		gallons / liters	7.38	38(O	132	8.40	2851	1.32	1,67	-10.1	
84 <u>,96</u> 84.91	0657	5	7.50	2764	16	8.21	27.50		1.65	39.1	
34.91	0659	15	7.53	2684	9,2	8.19	29,54	1.20	1.57	50.1 50.5	
84.91	0700	30	7.55	2595	8,0	8,21	29,62	1	1.48	49,4	
84.91 84,91	0701	35	7.57	2456	6.4	8.21	29.63			50.3	
14.91	6703	35	7.57	2396	3.6	8.24	29,65		1.42	53.5	
84.91	0704	40		<u> </u>				NA NA	NA	+/- 10 mV	
	2000 100 100		+/- 0,1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA				
	Stabilization C			1	1	V	NA	V	V	16	
revious Field	measurement	(10/5/2006)	7.5	2110	4.24	8.93	29.69 NA	0.1		N	
	nents consistent w		ion: pu	Imp tubing ~		spigo		bailer	other		
omments:											
iitial Depth	to Water (ft BT	oc): 184 4	13		Meas	ure Point: We	I TOC S	teel Casing	WAT		TER SERIAL NUMBER:  [ransducer
ield measu	ired confirmatio	n of Well Depth (			Initial DT	W / Before Rem	ioval	Approx. 5 r	nin After Re		Time of Removal
MH (Stand	ding Water Heic	abase) ft btoc  ght) = WD-Initial [	Depth	(4 in)	Time	Initial D		Time	F	inal DTW	Time of Reinstallation
(Volume a	as per diameter Volume = D*S	) 2"= 0.17, 4"= 0. WH 13.35	66, 1"=0.041	(4 III)	Comments	): :					
hree Casin	g Volumes = -	brown, black, clo	udy, green		Odo : none	e, sulphur, organ	nic, other		Solids: T	race Small Qu	i, Med Qu, Large Qu, Particulate, Silt, Sand Page 1°

										Topock Sa	ampling Log
		LOND					Sampling	Event	2007-GMF	-125-Q2	
Project N	anno	opock GMP						Date	5/2/	07	
Job Nu		1.MP.02.GM	Field Conditio	ns Sunny,				Page	of _		
Field	Team 1			Junny,						QC Sample T	Time N/A
Woll/Sam	ple Number	MW-19-125			QC San					QC Sample	
	t Time D7					Method CD	brub	_ Ded. Pun	np/		A.
Purge Star				Min.	Purge Volume	gal)(L) 44	Pı	irge Rate (g	pm)/(mLpm	)	
	Flow Cett: Y	/ N						Calimitu	TDS	Eh/ORP	Comments
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	g/L	mv	(See description below
===				~ ~ ~	49.0	78.4	27.98	1.23	1.57	69.9	
4.81	0739	5	7.46	2.55			28.32		1.57	86.1	
4.86	0741	15	7.49	2.56	5.6	87.7	7,40			96.7	
4.93		25	7.50_	2.56	2.9	92.4	28.39		1.56		
		35	7.51	2.56	10.8.	95,0	28.43	1.23	00 000 000 000 000 000 000 000 000 000	102.6	
4.95			7.5L	2.56	2.4	95.7	28.44	1.22	1.56	104.8	
14.95		45		2.56	36.2	97.4	28.46	1.22	1.56	106.3	
14.95	0748	50	7.51			97.9	28.47	1.22	1.56	108.1	
44 95	0749	55	7.51	2,56	23.9	98.0		1.22	1.56	108.4	
-14.95		لا جا	7.51	2.56	1.7			20 20 20	1.56	109.2	
14.95		65	7.51	2.56	2.0	98.2	28.47			+/- 10 mV	
11.12	1 012		+/- 0,1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 IIIV	
	Stabilization C		ļ	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N	+ 7	NA			7	
	ers Stablize prior to		7.4	2280	2.4	7.03	28.45	0.1		95	
revious Field	d measurement	(3/6/2007)	7.4	1	T 7	N	NA				
ample Tim		Sample Locat	ion: p	oump tubing	well port		ot	bailer	other		
omments:											
							$\overline{}$		14147	CDIEVEL ME	TER SERIAL NUMBER: PGE 2005-0
W.15	to Mater /ft BT	oc): -13.6	, l		Meas	ure Point: ( We	ell TOC	Steel Casing	, WAI		
nitiai Deptr	urod confirmatio	n of Well Depth (	ft btoc): La	2.87							Transducer
iela meas	onth from date	abase) ft btoc	(65.77)		Initial DT	W / Before Rem			min After Re	installation inal DTW	Time of resident
VD (VVeil L	Jepui - Itolii dali	ght) = WD-Initial [	Depth 22	.16	Time	Initial D	TW	Time		mai DTVV	Time of Reinstallation NA
SWH (Stan	iding vvaler Heig	) 2"= 0.17, 4"= 0.	66. 1"=0.041	(4 in)	-0722	43.6	, ]				
) (Volume	as per diameter	WH 14.62			Comment						
One Casing	g Volume = D'S	43.88							88		u, Med Qu, Large Qu, Particulate, Silt, Sand
Three Casi	ing Volumes = -	brown black clo	udu groon		Odor non	e, sulphur, orga	nic, other		Solids: 7	race, Small Qu	Page 5

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

										Topock	Sampling Log
Project N. Job Nu	imber 34563	opock GMP 1.MP.02.GM	Field Condition	700			Sampling	Date _	5-03-0	P-125-Q2	
Field	Team 1		Field Condition	ons swamy				, ugo			Time NA
	ple Number		25	Min.	QC San Purge Purge Volume	Method 3 C		Ded. Pu	impNo		Time IVA
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
47.22	0859	9	7.43	3.18	0,7	45.60	28.8	0.2	2.0	+171	
	0907	18	7.60	3.18	0.5	8.69	78,9	0.2	2.0	+169	
47.23		27	7 73	3.19	0.5	8.70	78.9	0.2	7.0	+164	
47,26	0905		7.81	3.19	0.2	8.70	28.9	0.2	Z.0	+159	
47,30	0903	36		3.20	0.4	8.69	25.9	0.2	20	+154	
47.33	0911	45	7.84		0.3	8.68	28.9	0.2	7.1	+151	
47.36	0919	54	7.85	3.21	0.5	0/0/5	201	0.0			
	Lili-tian Co	itoria	+/- 0,1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	tabilization Cr		YES	YES	YES	YES	NA	YES	YES	YES	
Previous Field		(3/14/2007)	7.4	2260	2.6	8.37	28.89	0.1	NA	152 YES	
	ents consistent wi	th previous?	high-	higher	lover	YES	NA	455			
Sample Time	0915	Sample Locati	on: p	ump tubing _X	well port	spigo	ot	bailer	other		
Initial Depth t	to Water (ft BTC	oc):45-			Measu	ıre Point: We	11 (6C) S	teel Casing	WAT		ETER SERIAL NUMBER: 12245
		of Well Depth (ff	btoc):/	JA		N / D - f D /	oval		-:- AB D-:		Transducer 842
WD (Well De	epth - from datal		W / Before Rem		Approx. 5 r Time	pprox. 5 min After Reinstallation Time of Removal		Ca 2			
SWH (Standi	ing Water Heigh	_ Time	Initial DT		)930		5.03	Time of Reinstallation 1 2 3			
D (Volume as	s per diameter)	2"= 0.17, 4"= 0.6	6, 1"=0.041	(4 III) 0.66	842.	115 (1)	me	7130			
One Casing	Volume = D*SV	VH	<u> </u>		Comments			-			

Odor: none, sulphur, organic, other

Three Casing Volumes =

Odor: none, sulphur, organic, other

Comments:

One Casing Volume = D\*SWH 36.10

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

Three Casing Volumes =

108.37

45.85

Field Team   1   Field Conditions   Page   of	SMP						Sampling	Event Date	2007-GM 5/3/07	P-125-Q2	
Well/Sample Number         MW-20-130-125           Purge Start Time() 6 45         Purge Method 3 C V Ded. Pump MA           Flow Cell: ∅ / N         Min. Purge Volume (gal)/(L) Z 58 Purge Rate (gpm)/(mLpm) 3.5           Water Level         Time Vol. Purged gallons / liters         pH         Conductivity mas/cm         Turbidity NTU         Diss. Oxygen mg/L         Temp. oc         Salinity my         TDS g/L         Eh/ORF mv           1.37         6-17         7.412         99.72         2.1         1.50         2.8.73         5.29         6.05         180.4           1.37         6-17         7.412         99.72         2.1         1.50         2.8.73         5.29         6.05         180.4           1.37         6-17         7.412         99.72         2.1         1.50         2.8.73         5.29         6.05         180.4           1.62         6.56         3.2         7.40         10.300         1.8         0.53         29.34         5.30         6.18         1837           1.62         6.56         3.2         7.48         147.20         1.2         1.96         29.49         7.75         8.78         185.9           2.72         7.14         95	Z.GIVI		d Conditio	ns							
Purge Start Time () 6 4 5 Flow Cell: (6) / N  Water Level Time Vol. Purged gallons / liters PH Conductivity NTU Diss. Oxygen mg/L oc Salinity NTU Diss. Oxygen my/L oc Salinity NTU Diss. Oxygen Temp. Oc Salinity NTU Diss. Oxygen my/L Diss. Oxygen Temp. Oc Salinity NTU Diss. Oxygen my/L Diss. Oxygen My/L Diss. Oxygen Temp. Oc Salinity NTU Diss. Oxygen my/L Diss. Oxygen	0-130	30-125								QC Sample Time	
Water Level         Time         Vol. Purged gallons / liters         pH         Conductivity Jums/cm         Turbidity NTU         Diss. Oxygen mg/L         Temp. oC         Salinity mv         TDS g/L         Eh/ORF mv           1.37         647         7.412         9972         2.1         1.50         28.73         5.29         6.05         180.4           1.62         656         32         740         10300         1.8         0.53         29.34         5.30         6.18         182.7           1.62         656         32         7.48         14720         1.2         1.96         29.48         7.77         8.81         188.3           1.72         705         63         7.48         14688         0.8         2.03         29.54         7.75         8.78         185.9           1.72         723         126         7.48         14680         0.8         2.03         29.54         7.75         8.74         185.7           1.72         723         126         7.48         14670         1.1         2.04         29.53         7.74         8.77         186.3           1.72         723         158         7.48         14670         1.1         2.05<		-		Min.	Purge l Purge Volume (	Method <u> </u>	, <b>V</b> 8 Рі	Ded. Pur urge Rate (g	mp/ <i>\f</i> Jpm)/(mLpn	3.5	-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			рН	15151110001110000 E50						Eh/ORP mv	Comments (See description below
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			117	9977	7 1	1.50	28.73	5.29	6.05	180.4	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	`						2934	5.30	6.18	182.7	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							29.48	7,77	8.81	188.2	
9.72 7.48 14670 1.1 2.04 29.53 7.74 9.77 185. 3 1.72 1.73 1.74 1.74 1.76 1.75 1.7							29,54	7.75	8.78	185.9	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						2.04	29.53	7.74	8.77	185.3	
1.72 741 189 7.48 14665 0.8 2.07 29.58 7.73 8.76 185.1 1.72 741 189 7.48 14665 0.8 2.07 29.57 7.72 8.76 184.3							29,57	7.73	8.77	186.3	
1.72 750 221 7.49 14653 0.9 2.07 29.57 7.72 8.76 184.3							29.58	7.73	8.76	185.1	
1 +2 790   (101   11   1   1   1   1   1   1   1   1						2.07	29.57	7.72	8.76	184.3	
2.72 801 258 7.49 14664 0.8 2.07 29.62 7.72 8.76 183.6				14664	0.8	2.07	29,62	7.72	8.76	183.0	
+/- 0.1				+/- 3%	units	1. COM 1.	NA	NA	NA	+/- 10 mV	40.00
rameter Stabilization Criteria  Parameters Stabilize prior to sampling?  Y  NA  Y  NA  91	2		- У	<del>                                     </del>	Y	У	NA	_		¥	
exious Field measurement (3/8/2007) 7.4 0.3 1.11 30	100000000000000000000000000000000000000	)	7.4		0.3		+			Higher	
e measurements consistent with previous?  NA  Propher  Society  Desired  Propher  Other	us?		У		<u> </u>	1 7	NA	_		1 1	

Initial Depth to Water (ft BTOC):

Field measured confirmation of Well Depth (ft btoc):

WD (Well Depth - from database) ft btoc (132.34)

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in) .66

One Casing Volume = D\*SWH 56.73

Three Casing Volumes =

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

		100000000000000000000000000000000000000	If	Transducer	
Initial DTW	/ Before Removal	Approx. 5 mi	n After Reinstallation	Time of Removal	6.36
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	8.13
36	46.38	8.18	46.58		

Topock Sampling Log 2007-GMP-125-Q2 Sampling Event PGE Topock GMP **Project Name** 4/20/0 Date Job Number 345631.MP.02.GM Page of Field Conditions Ammy In T Field Team QC Sample Time NA QC Sample ID Well/Sample Number MW-21-125 Purge Method Town RF2 Ded. Pump Purge Start Time 1/2 Apm 180 Hz Purge Rate (gpm)/(mLpm) Min. Purge Volume (gal)/(L) Flow Cell Y Comments Eh/ORP TDS Salinity Diss. Oxygen Temp. Turbidity Conductivity Vol. Purged pH (See description below Time g/L mv Water oC % mg/L NTU mS/cm gallons / liters Level 8 106 08 5.3 72.30 9.41 7.61 7.11 2 86 0.8 ca 10-m 15.4L 20.76 712 14.4 1.5 9 30.97 5. 25 702 1126 0.8 68 4.8 31-24 01 3,5 4:72 6 0.8 9 62 31,42 4.54 130 52 34 3163 0-8 9 31.77 69 whows well de 10.4 Whitever 9 0.7 3.20 2 none 93.63 +/- 10 mV NA NA +/- 0.1 +/- 0.3 NA +/- 10% NTU +/- 3% pH units units mg/L when >10 NTUs Parameter Stabilization Criteria NA Did Parameters Stablize prior to sampling? 11 1.2 28.75 4.9 2.04 19700 6.87 (3/9/2007)Previous Field measurement NA Are measurements consistent with previous? bailer spigot Sample Location: pump tubing well port Sample Time Comments: WATER LEVEL METER SERIAL NUMBER: 44.85 Well TOC Steel Casing Measure Point: Initial Depth to Water (ft BTOC): NW 198.28 If Transducer Field measured confirmation of Well Depth (ft btoc): Approx. 5 min After Reinstallation Initial DTW / Before Removal Time of Removal WD (Well Depth - from database) ft btoc Final DTW 843 Time Initial DTW Time Time of Reinstallation SWH (Standing Water Height) = WD-Initial Depth D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 \_\_(4 in)

Comments:

One Casing Volume = D\*SWH

Three Casing Volumes =

5.5

16.5

2 1 0002		Tanaak CMP					Sampling	Fvent	2007-GM		
Project N Job No		Topock GMP					Samping	Date			07/5/2/07
Field	Toom	31.MP.02.GM	Field Condition	ons overca	st. 76°.			Page	of		- 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12
rielu	11			averta						00.0	Time
Well/Sam	nple Number	MW-23-125			QC Sar	Control Control			mp <u>4</u> e	QC Sample	Time
Purge Star	t Time	:46 8	:48			Method CD (		_ Ded. Pu		and the same	
	Flow Cell: Y	/ N		Min.	Purge Volume	(gal)/(L) <u>59</u> .	Pi	urge Rate (	gpm)/(mLpm	<u>''</u>	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
u - M	0.50	10	1.33	16.6	0.1	3.52	28.1	1.0	10	91	
UTM	8:50		7.15	16.8		4.96	28.0	1.0	9	78	
71.98	8:52	20AH		17.1	1.4	6.70	28.3	1.0	( )	55	
72.12	8:54	30 20	7.11		0 1						
	8:56	1 400	Pur	yed dr	y (w w	ord 11	cas	103			
	8:58	50"									
	8900	5 60°							ļ		
_	512107		7.22	17.0	11.07	5.11	24.77		11.07	234	Water was clear
63.48		Checked .	A not	mola Me	charged	42%					
<u> </u>											
			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stabilization Cr						NA				
Previous Field	s Stablize prior to measurement	(3/6/2007)	7.03	19700	17.9	4.15	28.66	0.7		62	
	ents consistent w						NA				
Sample Time	9:020	Sample Locat	/ 0 7 ion: pu	ımp tubing	well port	spigo	t	bailer	other		
Comments:	Installe	ed a ne		. Checke		1 1 2 2	11 15	right o		@ all	tu 1st parameter.
utv	M = Unable	to mean	Mrc. FI	ow rate	slowed.	10 1650	thor	1	gpm_	15 M	
Initial Depth t	to Water (ft BTC	oc):5_	1.58		Measu	ıre Point: We	II TOC SI	teel Casing	WATE		TER SERIAL NUMBER: 1251
		of Well Depth (f	t btoc ):								ransducer
WD (Well De	pth - from data	base) ft btoc	(81.45)		Initial DTV	V / Before Remo			nin After Rei	nstallation nal DTW	Time of Removal
SWH (Standi	ing Water Heigl	ht) = WD-Initial D	epth21	. 17	Time	Initial DT	W	Time	FI	Hal DIVV	Time of Reinstallation
D (Volume as	s per diameter)	2"= 0.17, 4"= 0.6	66, 1"=0.041	(4 in)	8:30	51.58		7 0		<2	2 79
	Volume = D*SV			Comments: DTW 10 512/07 @ 0644 was 53.79						) . 1 4	
Three Casino	g Volumes = -	57.1			-						M. LO. Larra Ov. Particulate Silt Sand

Odor: none, sulphur) organic, other

Topock Sampling Log 2007-GMP-125-Q2 Sampling Event PGE Topock GMP **Project Name** 514107 Date Job Number 345631.MP.02.GM Page of 8F. Calm Field Conditions Field Team QC Sample ID QC Sample Time Well/Sample Number MW-25-125 Ded. Pump Purge Start Time 19939 Purge Method Purae Rate (qpm)/(mLpm) Min. Purge Volume (gal)/(L) Flow Cell (Y)/ Comments Eh/ORP Salinity TDS Diss. Oxygen Temp. Conductivity Turbidity pH Vol. Purged Time (See description below Water oC g/L NTU mg/L mS/cm gallons / liters Level 016 0,72 5940 7.44 5 094 8 100,2 0,70 7.42 I 20 0,70 1526 7.42 1508 24.16 740 +/- 0.1 NA NA NA +/- 10 mV +/- 10% NTU +/- 0.3 +/- 3% pH units units mg/L when >10 NTUs Parameter Stabilization Criteria NA Did Parameters Stablize prior to sampling? 120 0.1 6.84 29.3 1350 7.24 (3/6/2007)Previous Field measurement Are measurements consistent with previous? bailer Sample Location: well port spigot Sample Time pump tubing Plug in Prain-Clear Drain Ok WATER LEVEL METER SERIAL NUMBER: Steel Casing Measure Point: Well TOC Initial Depth to Water (ft BTOC): If Transducer Field measured confirmation of Well Depth (ft btoc): Initial DTW / Before Removal Approx. 5 min After Reinstallation WD (Well Depth - from database) ft btoc (106.54) Time of Removal Final DTW 9.84 Initial DTW SWH (Standing Water Height) = WD-Initial Depth Time Time of Reinstallation D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 Comments: One Casing Volume = D\*SWH.

sulphur, organic, other

Odor none

Three Casing Volumes =

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

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand
Page 12 of 50

	lumber 3456	Topock GMP 31.MP.02.GM	Field Condition	ons			Samplin	g Event _ Date _ Page	2007-GI 5/1/G of		
Well/Sai	mple Number	MW-27-085-12		Overe	QC Sa	mple ID NA				QC Sampl	e Time
Purge Sta	rt Time <u>C7</u> Flow Cell:			Min	, Purge Volume		Р		gpm)/(mLpi	_	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp.	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
5.47	0756	(L)	6.94	50.3	1	1.48	20.33	3,2	29	-81	
5 87	0751	<del> </del>	6.94	34.4	i	6.64	70.90		20	-84	
5.89	0502	16	6.95	28.3	0.76	0.40	21.05	- T	17	-82	
5.87	0405	22	6.95	25.8	0, 64	0.48	21.12		16	-8)	
590		246	6.95	33 %	0.65	6.45	21.19		15	-79	
598	0806	34	6.96	21.1	6.44	0.43	71.70		13	-75	
591	0814	40	6.96	20.8	1.[]	6.40	2129	1.1	tl	-73	
591	0817	46	6.96	20.5	0.57	0.38	21.47	1.0	10	- 69	
Parameter S	Stabilization Cr	iteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameter	s Stablize prior to	sampling?					NA 04.07	1.4		-97	
Previous Field	measurement ents consistent wi	(4/3/2007) th previous?	6.95	23100	0.5	2.16	21.07 NA	1.4		-97	
Sample Time Comments:		Sample Locatio	on: pu	Imp tubingX	well port	spigot		bailer	other		
		oc):H_	,		Measu	re Point: Well	TOC SI	eel Casing	WAT		TER SERIAL NUMBER:
		of Well Depth (ft I			- Initial DTA	/ / Before Remo	wal		t- A4 D-		Transducer Time of Removal 0748
WD (Well Depth - from database) ft btoc					Time	Initial DT\		Approx. 5 m Time	in After Rei	nstallation inal DTW	Time of Removal 0795  Time of Reinstallation 0842
		at) = VVD-initiai Dej 2"= 0.17, 4"= 0.66		(2 in)	0750	4.69		84-		97	Time of Reinstallation
One Casing	volume = D*SW	1H 12.1	Comments:								
Three Casing		37			,						

Project N		Topock GMP					Sampling	T-		1P-125-Q2	
	Team 1	31.MP.02.GM	Field Conditi	ions land	- 5 unnu	Л		Date Page	) / <del>7</del>	107	
VALLIVS on	la Niumbar	MW-28-090-1		-/	-	mple ID NA				QC Sample 1	Time NA
		0943	25			And the second s	3WV	Ded. Pu	ımp /	ND	Time 1011
Purge Sta	-71	0192		Min	n. Purge Volume						m
	Flow Cell (Y)	/ N	1	T	1	(3-)-(-)	1900	, I	T	0	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
12.04	1948	1.0	7.21	6734	. 10	0.38	19.05	3.72	4.385	-137	
12.11	0953	20	7.32	7348	1.0	0.25			1		
12.09	0958	30	7.35	7444	1.0	0.21			4.844	-152	
12.08	1003	40	7.35	7481	0.4	0.19	20.16	4.14	4.865	-154	
12.10	1608	50	7.36	7492	1.0	0.18	20.17	4.15	4.873	-156	
10	1000		1 2								
	************										
Davis	tabilization Crit	toria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stablize prior to s						NA NA				
revious Field r		(3/8/2007)	7.29	6910	1	4.13	21.2	0.4		-154	
	ents consistent with	n previous?					NA				
Sample Time	1010	Sample Location	n: pu	ımp tubing X	well port	spigot		bailer	other		
omments:											
		E PER SERVICE AND CONTRACTOR OF THE CONTRACTOR O					~				(1 0100
nitial Denth to	Water (ft BTO	o): 10	.82		Measu	e Point: Well	TOC) Ste	el Casing	WATE	R LEVEL METE	ER SERIAL NUMBER: Slope-Blaire
15		of Well Depth (ft i	otoc):	18.2			<u> </u>			If Tra	ansducer
	th - from databa		8.36)	600	Initial DTV	/ Before Remo	val A	pprox. 5 mi	in After Rein		ime of Removal 0935
		) = WD-Initial Dep		7	Time	Initial DTV		Time		al DTW	ime of Reinstallation
A		"= 0.17, 4"= 0.66		(2 in) , 17		10.	84 16	520		,90 "	
1	olume = D*SWH	1	1.29	-34-341-3-440	Comments:						
hree Casing			77		- ( )	orthogo <b>k</b> ering <b>k</b> olo (1885) o the anticolor (1886) o the anticolor (1886) of the anticolor (1886) o	319387 <b></b> 31998			\ a#a	Ind Out I are Out Bodioutate Oils Cond
olor:\clear,\	grey, yellow, bro	wn, black, cloudy	, green		Odor none,	sulphur, organic	, other		Solids:\Ira	ce, Small Qu, M	led Qu, Large Qu, Particulate, Silt, Sand

Page 14 of 50

Project Na		Topock GMP					Sampling	Event _	2007-GN	MP-125-Q2	
Job Nu		1.MP.02.GM			17.1			-	( of	1	
Field T	eam 1		Field Condition	onsginny	Imt			Page	01		
		MW-32-020-12	25			mple ID NA	. P = 2 t	W	Ded	QC Sample	Time
Purge Start	Time 122	-1				_	3 100.00			1.17	_
	Flow Cell: Y	N		Min.	Purge Volume	(gal)/(L)	Pı	urge Rate	pm))(mLpr	n)	
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
b.85	1222		6.62	32.9	31.3	5.47	74.54	2.1	20	-101	
647	1223	1-2	10.01	33.3	46.1	9.29	24.68	2-1	20	-162	
6.98	1224	3	10.60	33.2	47.7	5.14	24.61	2.1	20	-163	
7-04	1225	i i	6.60	37.10	27.8	5.07	24.61	2.1	20	-163	
7.0b	122b	15	0.00	33.7	20.2	4.98	24.60	2.1	20	-164	
7.03	1227	6	6.60	34.7	28.2	4.73	24.62		21	-169	
7.02	1228	1	6.60	34.9	13.0	4.60	24.60	2.2	21	-165	
			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
A CONTRACTOR OF THE PARTY OF TH	abilization Cri Stablize prior to s		489	YE9			NA	1	V	V	
Previous Field m		(3/6/2007)	6.51	39700	200	0.11	26.8	2.6		-84	
	nts consistent wit		484				NA				
Sample Time	1275	Sample Location	on: pu	imp tubing 💢	well port	spigot		bailer	other		
Johnnents.											
nitial Depth to	Water (ft BTO	ic): 53			Measu	re Point: Wel	TOC SI	eel Casing	WAT	ER LEVEL ME	TER SERIAL NUMBER: 1251
		of Well Depth (ft	btoc): N	A	_						ransducer
	th - from datab		19.6)		Initial DTV	V / Before Remo		approx. 5 m			Time of Removal
		t) = WD-Initial De		777	Time	Initial DT		Time	Commence of the commence of th	inal DTW 5.84	Time of Reinstallation 1240
		2"= 0.17, 4"= 0.66	5, 1"=0.041	(2 in)	1206	6.83		1245	1	1.81	
	olume = D*SW	n 2.5			Comments:						
	Volumes = -	7.0								_	

Project Na		Topock GMP					Samplin			MP-125-Q2	
Job Nu	0-1000	1.MP.02.GM						Date	4/30		and the same of th
Field T	eam 1		Field Condition	ons gimmy	not_			Page	of		
	ple Number[ Time   30	MW-32-035-12	25			mple ID NA		Ded. Pu	mp bed	QC Sampl	
Purge Start	Flow Cell			Min	2000000 <del>00</del> 00	(gal)/(L) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	P	urge Rate (	pm)/(mLpi	m) 29pin	n 1824e
Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
7.25	1313	10	1.01	19.0	4.15	25 07	25.07	1.)	12	-45	
7.30	1318	20	190	21.8	32.2	4.28	25.64	1.3	14	-148	
7,32	1323	20	6,90	23.7	4,6	403	25.73	1.5	15	-149	
7, 33	1328	40	6.91	23.7	3. 3	393	25.76	1.4	15	-152	
7.34	1377	150	6.93	23.5	2.1	387	25.75	1.4	14	-155	
7.35	1338	60	694	23.5	2.7	3.83	25.75	1.4	15	-157	
7.35	1340	64	6.94	23.5	1.3	3.82	25.78	1. 4	15	-158	
Dougnotor St	abilization Cri	toria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stablize prior to s		1	V		<b>V</b>	NA	1	V		
revious Field m		(3/6/2007)	5.98	14800	1	0	27.9	0.9		-66	
	nts consistent with	n previous?					NA				
ample Time omments:	1345	Sample Locatio	n: pu	mp tubingX	well port	spigot		bailer	other		
itial Depth to	Water (ft BTO	5.S		1	Measu	re Point: Well	foc ste	eel Casing	WATE	ER LEVEL ME	ETER SERIAL NUMBER: 125   1
ield measured	d confirmation of	of Well Depth (ft b	otoc):	7							Transducer
D (Well Dept	h - from databa	ase) It bloc (3	7.15)		-	/ / Before Remo		pprox. 5 mi		nstallation nal DTW	Time of Removal 1205
		) = WD-Initial Dep			Time Initial DTW			Time ろりろ		9.87	Time of Reinstallation _ 174 \(\Delta\)
		"= 0.17, 4"= 0.66,	, 1"=0.041 <u> </u>	T 111/				1 / 1 /	1	7 7 1	
ne Casing Vo	lume = D*SWI	V 2			Comments:						

		Topock GMP 1,MP.02.GM	Field Conditi	ons Stinn	y, dear	10W 90 2	Samplin	g Event Date Page		1P-125-Q2	
Well/San	nple Number	MW-33-040-1:	25		QC Sa	mple ID NA	y : Radi-		mp//	QC Sample	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
36.11	9:19	1	8.09	5km. 531	82-2	0.54	27.25	0.4	4.4	12	sitty tooking it flist
36.09	9:21	是18	8.04	16.1	54.9	0,61	27.51	1.0	10	3	7 10 9
35.89	9:23	AB 2.9	8.09	19.5		0.59	28.28	1.2	13	-4	
35.24	9:24	A.Hy 3.6	8.10	37.3	66.7	0.38	28.63	2.6	250	-6	
34.91	9.26	A\$ 4.6	8.12.	46.3	53.6	0.12	28.95	2.8	27	-7	
34.68	9:28	5.6	8.14	48,47.2	33.6	0.13	28.31	27	25	-([	
34.50	9:30	6.5	8.16	29.7	22.3	0.5]	28.77	V.9	19	-12	
34.45	9:32	7.5	8.17	28.8	22.9	0.52	29.21	1.8	18	-(5	
34,43	9.3933	8	8.18	20.2	286	0.55	29.40	1./	12	-16	
arameter S	tabilization Crite	eria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stablize prior to sa		У	¥	¥	γ	NA	V	<b>英·</b> H·	JA.H.	
revious Field n		(3/6/2007)	8.14	27000	139 10112V	1.7	27.08	4			
ample Time	measurements consistent with previous?  mple Time					spigot	NA	bailer	other		
itial Depth to	) Water (ft BTOC	): <u>30</u>	0.90		Measur	e Point: Well	TOC Ste	el Casing	WATE	R LEVEL MET	ER SERIAL NUMBER: PGE-2005-0
		f Well Depth (ft b			- [						ransducer
- M	(Well Depth - from database) ft btoc (41.84)  H (Standing Water Height) = WD-Initial Depth					Initial DTW / Before Removal Time Initial DTW		oprox, 5 mir Time		al DTW	Time of Removal 9:05
	olume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)					9:05 30.90 9:41 32.87					Time of Reinstallation
	olume = D*SWH		9		Comments:						
ree Casing		5.6	2								

Odor: none, sulphur, organic, other

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

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

	eam 1	1,MP.02.GM	Field Condition	ons Sunn	m, clear,	high 80s	Sampling	Date		MP-125-Q2 	
Well/Samp	ole Number	MW-33-090-12			0	nple ID NA				QC Samp	le Time W/A
Purge Start T		10:08			Purge	Method red	li-flo	Ded. Pu	ımp _ <i></i>		
	Flow Cell: Y	-732		Min	. Purge Volume	(gal)/(L)/ [	3P	urge Rate (	gpm)/(mLpi	m) _ 2_	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
31,56	10:19	19	7.34	17.4	7.22	0.00	26.96	1.2	73	36	
	10:27	38	7.33	19.2	3.3/	0.00	27.00	1.1	((	27	
	10:37	57	7.34	15.4	1.98	0.00	27.00	7.0	10	24	
	10:46	76	7.36	2/2	097	0.14	27.00	1-7	13	23	
	10:56	95	7.35	20.3	0.60	0-16	27.02		12.	2/	
	11.05	114	7 35		0.58	0.00	2705	0.9	10	18	
			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	bilization Crit tablize prior to sa						NA				
			7.46	11600	0.5	0.41	27.09	0.6		97	
measurements consistent with previous?  Inple Time 11:07 Sample Location: pump tubing ments: This well was marked as have					well port_	spigot	mp, b	bailer	other does	, NOT!	
	Vater (ft BTOC	f Well Depth (ft b	(1.13		Measur	e Point: Well	TOC Ste	el Casing	WATE		TER SERIAL NUMBER: P/4 E - 2005 -
		se) ft btoc (88			Initial DTW / Before Removal			pprox. 5 mi	n After Reir		Transducer  Time of Removal
H (Standing Water Height) = WD-Initial Depth5 7.15					Time	Initial DTV		Time		nal DTW	Time of Reinstallation
Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)					9:51	31.13	3				
Casing Volu e Casing Vo	ume = D*SWH	37.7	<b>1</b> - (2) (4) (6)		Comments:						

Odor; none, sulphur, organic, other

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

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

		Topock GMP 31,MP.02.GM	Field Condit	ions <u>Sun</u>	my to ch	ear 100s	Sampling	g Event Date Page	2007-G 5/3 of			
Well/Sar		<b>MW-33-150-1</b> 2 ∴ 36 / N			QC Sa	mple ID NA	di-Flo	Ded. Pu	ump (gpm)/(mLp	QC Samp <i>No</i> (m) 3	ole Time N/A	
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below	
34.45	12:39	10.5	7.32	378	2.05	0.48	27.20	2.7	26	50		
34.50	12:43	21	7.39	35.8	4.88	0.44	27.30	2.0	20	39		
34.52	12:46	31.5	7.39	37.1	0.65	8:46	27.34	2.1	21	-83		
34.53	12:50	42	7.40	36.644	1.110	0.53	27.34	2.3	22	-93		
34.54	12:53	52.5	7. 37	36.3	2.57	0.51	z7. 33	1.8	18	-79		
34.48	13:01 1:01 A.H.	63	7.40	31.2	3.36	0.85	27.35	1.9	19	-65		
Parameter S	Stabilization Crit	reria	+/- 0,1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV		
	s Stablize prior to sa						NA					
Previous Field		(3/6/2007)	7.51		0.08	0	27.61			37		
	ents consistent with	Sample Locatio	B-125	ump tubing X	well port_	spigot in this			30	12.59		
Initial Depth to	o Water (ft BTO	o):32.4	09	11-11-364	Measu	re Point: (Well	TOC Ste	el Casing	WAT	ER LEVEL ME	TER SERIAL NUMBER: PGE-2005-011	
		of Well Depth (ft b									Transducer	
	VD (Well Depth - from database) ft btoc (155.38) WH (Standing Water Height) = WD-Initial Depth 123.29					/ / Before Remo	2.7	oprox. 5 mi	in After Rei	nstallation nal DTW	Time of Removal /2:26	
	(Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)					Time Initial DTW 12:27 32.09			_	2.15	Time of Reinstallation/ 3 - 9	
	/olume = D*SWF	and the same of			Comments:	quel plan * "	££	3:75				
170	Volumes =	Ø	3									

Project I		Topock GMP					Samplin			MP-125-Q2	
	Team 1	31.MP.02.GM	Field Condition	ons Z. (O)	ny cleur	1005 (hr	(t)	Date _ Page	$\frac{5/2}{L}$ of	107	
		MW-33-210-1		32		mple ID NA			1	QC Samp	ole Time N/A
	rt Time //.	ASS				/	ed. Ru	L Ded Pu	ımp l	185	10/21
Furge Sta	Flow Cell Y			Min	. Purge Volume	AND THE RESERVE AND THE PERSON OF THE PERSON		urge Rate (	/	m) 3	
	Flow Cell	7 N			I		1		Γ	1	
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
33.70	11:46	16.	1.27	24.5	1.34	0.68	27.36		18	-18	
33.72	11:52	32	7.23	27.3	1.48	0.00	27.68	1.8	18	-44	
33.74	11:57	49	7:49	2426.5	1.13	0.00	27.69	1.6	16	-49	
33.74	12:02	65	7.20	26.3	0.91	0.00	27.71	1.6	16	_53	
33 75	12:08	01	7.19	24.4	1.24	0.00	27.71	1.5	15	~50	
33,14	12:13	98	7.19	41.23.7 22.6	UN 0.75	017	21.72	1.4	15	-52	
Parameter S	tabilization Cri	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stablize prior to s		V	1/	1/	У	NA		-	У	
Previous Field		(3/5/2007)	7.25	57300	6.26	0.31	28.39	3.8		-2	
Are measureme	ents consistent wit	h previous?	У	lower	lower	lower	NA	Dover		lower	
Sample Time Comments: _		Sample Locatio	n: pur	np tubing	well port	spigot		bailer	other		
	o Water (ft BTO	~/,	1.91		Measur	e Point; Well	TOC Ste	eel Casing	WATE		TER SERIAL NUMBER: PGE-2005-01
		of Well Depth (ft b			Initial DTM	/ Poforo Pomo	val .				Transducer N/A
		ase) ft btoc (2: ) = WD-Initial Dep	1/3	1.09	Initial DTW / Before Remova Time Initial DTW			pprox. 5 mir Time		nstallation nal DTW	Time of Removal
		"= 0.17, 4"= 0.66,	2 in)	11:37 31.91					Time of Reinstallation		
	olume = D*SWI	2 /		Comments:							
Three Casing		97.5						7			
/		own, black, cloudy	, green		Odor: none,	sulphur, organic	, other		Solids: Tra	ace, Small Qu	, Med Qu, Large Qu, Particulate, Silt, Sand

Project Job N		Topock GMP 31,MP.02.GM					Sampling	g Event		MP-125-Q2	
	d Team 1	71,141 .02.014	Field Conditi	ons Sunn	4,1005,			Page _	of	20/07	
Well/Sa	mple Number	MW-34-080-12	25		1.	mple ID NA				QC Sampl	le Time N/A
Purge Sta	art Time 13	: 33			Purge		· pump		/		1
	Flow Cell (	/ N		Min.	Purge Volume	(gal)/(L) 5	6PI	ırge Rate (	gpm)/(mLpr	n) 3	
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
6.96	13:42	26	7.15	8 Alu	1.09	1.08	18.99	0.5		- 182	
7.01	13:50	52	7.10	8.71	1.65	0.60	19.48	0.5		-169	
7.01	13:59	78	7.07	9.0	0.51	0.45	19.88	0.6		-131	
1.77	14:08	18478	7.07	900	0.44	0.51	19.92	0.0		-127	
7.29	14:17	130 104	1.06	9.0	0.93	n 37	19.99			_ 64	-123
7.29	14:31	156130	7.10	9.0	0.81	10.4 h	1.19.99		~~~	722	
7.29	14:40	15%	7.09	4.0	0.63	0.12	19.94	0.6		-121	
	1	128	*								4
Parameter S	Stabilization Cri	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	s Stablize prior to s		425	Nes	٧	4	NA	4		У	
Previous Field		(4/2/2007)	₹.65	10800	0.4	0,	20.4	0.6		-85	
	nents consistent with	7. (0.1)	lower	lower			NA	<del>- y</del>	**************************************	Migher	
		Sample Location  Le for  Shudt	18+ 3	mp tubing X reading 27 Swif	well port  S was  who purge	< 3 gpm	n, then	bailer efore f 14:7	other	is sligh	try less; more readings
Initial Depth t	to Water (ft BTO)	5.4	4		Measu	re Point: Well	TOC Ste	el Casing	WATE	R LEVEL ME	TER SERIAL NUMBER: PGE-2005-0
		of Well Depth (ft b	toc ):		. [						Fransducer
WD (Well De	pth - from databa	ase) ft btoc (84	4.3)	40	Initial DTW	/ Before Remov	/al A <sub>l</sub>	oprox. 5 mi	n After Reir	stallation	Time of Removal
		) = WD-Initial Dep			Time Initial DTW			Time	Fir	nal DTW	Time of Reinstallation
		"= 0.17, 4"= 0.66, <b>52.</b> (		4 in)	13:30	5.44			_1		
	Volume = D*SWF	156.12			Comments:						
		•		***	04011-00-1	audabu da arancia	other		Solide Tra	scel Small Ou	Med Qu, Large Qu, Particulate, Silt, Sand
Colort clear	grey, yellow, bro	wn, black, cloudy	, green		Odor: none,	sulphur organic	Joure		Conus	Jonan Gu,	Page 21 of 50

		Topock CIS 31.MP.02.CI.00	Field Condition	ons Sunn	y, clear	<b>7</b> 0s	Samplin	g Event _ Date _ Page _	2007-CIS 4/3 of	5-002 30 /07	
Well/San	nple Number	1:58	16-34-10	S ]	QC Sa	mple ID CI:	S-096 ed:		ımp V @	_	le Time +2:29 11:45
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp.	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
6.55	12:03	9.5	7.55	12.1	2.18	2.50	20.17	0.7		48	
6.58	12:00	19	7.56	12.5	1. 29	1 7.33	21.08	0.7		38	
	12:12	28.5	A:57.45		2.94	2.25	21.14	0.7		A.H. 30	
6.60	12:17	38	7.44	12.5	1.30	2.21	21.18	0,17		28	
(0.60	12:22	47.5	1.44	<del></del>	1.04			0.7		24	
6.60	12:21	57	7.44	12.4	0.83	2.18	21.21		_	22	
Parameter St	tabilization Crit	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters	Stablize prior to sa	ampling?	γ	٧	У	Y	NA	γ	4.H	Yes	
Previous Field m		(4/18/2007)	8.08	18100	0.3	ó	21.4	0.9		114	
	12:29	Sample Location	n: pun	np tubing	well port	spigot	NA	bailer	other		
Initial Depth to	Water (ft BTO	s):5	5.68		Measur	e Point: Well	TOC Ste	el Casing	WATER	R LEVEL ME	TER SERIAL NUMBER: 365-2005-01
		of Well Depth (ft b					. ]			and a common distriction of the common of th	ransducer
45 23		se) ft btoc (11	1.1	32		/ Before Remov		pprox. 5 mir Time	After Reins	stallation al DTW	Time of Removal
		= WD-Initial Dep '= 0.17, 4"= 0.66,		2 in)	Time Initial DTW			11116		ai DIVV	Time of Reinstallation
	olume = D*SWH		92.		Comments:	1 2.40					
		wn, black, cloudy		fl.	Odor: none,	ulphur, organic	other		Solids: Trac	ce) Small Qu,	Med Qu, Large Qu, Particulate, Silt, Sand

Page 13 of 27

Project N Job Nu Field	ımber 35463	Topock CIS 31.MP.02.CI.00	Field Conditi	ons SUNUY	wild		Samplin	g Event _ Date _ Page _	2007-Cl 5 ~0 L of	15-002 7-07	
Well/Sam Purge Star	t Time	16	36-35-16	35	QC Sa	mple ID					le Time 1145
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
28.20	1051	10	7.46	79.4	0.1	2.23	26.97	1.8	18	+33	
28.23	1056	10	7.42	27.1	0.2	2.18	27.07	1.7	17	+37	
28.23	1101	30	7.44	25,6	0.1	2.19	Z7,10	1.6	16	+35	
28.23	1106	40	7.46	24.7	0.1	2.17	27.15	1.5	15	+32	
28.23	1111	50	7.47	Z4.5	0.1	2.16	27.20	1.5	15	+31	
28.23	1116	60	7.47	24.3	0.1	2.15	27.22	1.5	15	+30	
28.23	1121	70	7,48	24.0	0.1	Z.15	27,20	1.4	15	+73	
Parameter Sta	abilization Crit	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stablize prior to sa		YES	YES	YES	YES	NA	YES	YES	425	
Previous Field m	easurement	(3/8/2007)	5.75	8580	1	0.22	29.9	0.5	-	218	
	1125	28	higher	hyghe.	love	histe	NA	high	NA.	loves	
Sample Time Comments:		Sample Location	n: pur	mp tubing X	well port	spigot		bailer	other		
Initial Depth to	-1 2000 -07	0.000.000.000.000	6		Measur	e Point: Well	foc Ste	el Casing	WATE	ER LEVEL ME	TER SERIAL NUMBER: 12245
Field measured confirmation of Well Depth (ft btoc ): If Transducer											
		se) ft btoc(15 = WD-Initial Dep		34	-	/ Before Remov		oprox. 5 mir Time		nstallation nal DTW	Time of Removal
15 15	T (77) 1	= 0.17, 4"= 0.66,			1034 27.36			35	27		Time of Reinstallation
		22.32			Comments:	611.30			-1		1
Three Casing V			1								
											Med Qu, Large Qu, Particulate, Silt, Sand

Project I		Topock GMP					Samplin	g Event		MP-125-Q2	
	Team 1	31.MP.02.GM	Field Conditi	ons Claudy	850			Date Page	5/1/*7 of		
					QC Sa Purge	mple ID NA Method (gal)/(L)	futhe		ump //	QC Samp	le Time
Water Level	Time	Vol. Purged	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
1383	1233	1.6	7.65	2.84	322	2.45	23 YZ	0-1	1.9	-121	
13 83	1236	2.8	767	3.41	1.41	1.70	23.28	0.2	2.2	-152	
1384	1229	40	7.71	2.98	1.37	0.00	23.29	0.1	2.0	-147	
(384	(242	5-2	702	7.84	2.34	0.65	23.29	0.1	1.8	-147	
(3.14	1245	6.4	7-74	2.59	6.94	1.08	23.67	0-1	(,6	~177	
12.87	(248	7.6	7.75	2.57	(-67	0.80	23.34	61	1.5	-149	
(3.88	(25)	8.8	7.72	1.50	0.78	1.68	23.26	0.1	1.5	-144	
Parameter S	tabilization Cr	iteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stablize prior to		Y	4	У	Y	NA	7	Y	Y	
Previous Field	measurement ents consistent wi	(3/7/2007)	7.66	3000	4.81	0.54	26.1	0.1	7	-128	
Sample Time Comments:	130-	Sample Location	mp tubing X	well port	spigot	NA	bailer	<u> </u>	f		
Initial Depth to	o Water (ft BTC	oc): [3, (7			Measur	e Point: Well	TOP St	eel Casing	WATE	R LEVEL ME	TER SERIAL NUMBER: $1881$
		of Well Depth (ft b			Initial DTM	/ Before Remo	val		- After Dele		Fransducer /7.7
		ase) ft btoc <u>(72</u> t) = WD-Initial Dep			Time	Initial DTV		Time	n After Rein Fin	nal DTW	Time of Removal /270
		2"= 0.17, 4"= 0.66,			1220	13.69		σ <sup>-</sup> 7	/3	81	Time of Reinstallation
	olume = D*SW				Comments:						
	Volumes =										

Project Job I		Topock GMP 31.MP.02.GM					Samplin	g Event _ Date	2007-G	MP-125-Q2	~~~	
0.00	d Team 1		Field Conditi	ons Sunny	, high clou	ds, 70's		Page	of	5/2/		
	mple Number		25			100	V-93-125			QC Samp	ple Time WAA.H. 6:45	
Purge St	art Time	10				Method Per		Ded. Pu	_	0	· ·	
	Flow Cell: Y	/ N	,	Mir	n. Purge Volume	(gal)/(L)	<b>1.7</b> P	urge Rate (	gpm]/(mLp	om) 0.4		
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below	
14.10	7:12		7.13	25.9	4.09	0.37	22.95	1.5	15	-62		
14.10	7:18.20	3.2	1.23	12.5	1.76	0.72	22.82	0.6	7	-87		
14.12	7:222	4.8	7.25	10.2	1.72	十.约.7	23.23	0,4	4.5	-84		
14.14	7:25:28	6.4	7.14	7.81	2.33	0.22	23.47	0.4	5.7	-55		
14.14	7: \$032	8	7.18	7.88	3.68	0.3	23.53	0.4	5.0	-45		
14.15	7:30730		7-15	1.58	1.22	000	23.59	0.4	4.7	- 35		
		•										
Parameter S	Stabilization Crit	eria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV		
-	s Stablize prior to sa		У	У	У	У	NA	Y		У		
Previous Field		(4/3/2007)	7.3	<b>)</b> 6970	0.4	2.2	24.28	0.4		-17		
	ents consistent with		У	higher	higher	lower	NA	163	-	higher		
	7:3638 2 min dela			mp tubing X	well port	spigot		bailer	other			
19	o Water (ft BTOC		1		Measur	e Point: Well	TOC) Ste	el Casing	WATE	ER LEVEL ME	ETER SERIAL NUMBER: PGE-2005-013	
	ed confirmation o		*		-	10-1					Transducer ,	
	pth - from databa		<1	Initial DTW	/ Before Remov		oprox. 5 mir Time		nstallation nal DTW	Time of Removal		
	SWH (Standing Water Height) = WD-Initial Depth					Initial DTW				1.09	Time of Reinstallation 7:46	
	One Casing Volume = D*SWH 3, 21					(6:30   13.97   7:61   14.09						
Three Casing		9.7			- Louinnents.							
	arey vellow brow	m block cloudy	aroon		Odor(nono)	ulphur organic	other		Salida (Te	Small Ou	Med Ou Large Ou Particulate Silt Sand	

Project I		Topock GMP				with the state of	Samplin	33330		MP-125-Q2			
		31.MP.02.GM	Field Conditi	ons -	2/2 - 12	Mar		Date _		12/07			
rieid	ream 1		Tield Conditi	Sunny	i,clear,	11941/05		Page _	of				
Well/San	nple Number	MW-36-100-1	25		QC Sa	mple ID NA				QC Samp	le Time	N/A	
Purge Sta	rt Time	59 8:02	)		Purge	Method Re	di-Flo	Ded. Pr	ump	105		,	
	Flow Cell	/ N		Min	. Purge Volume	(gal)/(L)	49 P	urge Rate	(gpm))(mLp	m) Z			
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv			nments cription below
16.88	8:04	8	7.11	11.3	2.02	2.01	24.16	0,7	8	-183	very s	trong	Sulphunc SM oc
16.90	8:08	16	6.98	18:16 D	2.36	0,00	24.77	1.0	10	-111	)	11 )	1
16.91	8:12	24	6.97	16.21	0.77	0.00	24.79	1.0	10	-91			
16.93	8:16	32	6.96	15.9	0.55	0.00	24.81	1.0	10	-65			
16.92		40	6.97	15.0 15.9A	1.0.40	0.00	24.82	1.0	10	-57			
	8:20	49	6.98		A	0.00	24.83	1.0	10	-51	-		
16.42	8:24		9.	16.1	0.54			1.0					•
Parameter S	tabilization Cri	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV			
Did Parameters	Stablize prior to s	ampling?	+8-yes	У	V	γ	NA	γ	V	У			
Previous Field r	measurement	(4/2/2007)	7,55	16600	0:8	0	25	1	/	-58			
	ents consistent with		Lower	V	Lower	4/5	NA	V		Yes			.,,
		Sample Locatio	n: pu	mp tubing	well port	spigot		bailer	other				
	Water (ft BTO	,	1.29		Measur	e Point: Well	TOC Ste	eel Casing	WATE				PGE-2005-01
		of Well Depth (ft b			- Initial DTM	/ Doforo Domo	wal				ransducer	#	N/A
NAMES OF STREET OF	th - from databa	) = WD-Initial Dep	10.15)	.86	Time	/ Before Remo		pprox. 5 mi Time	in After Reir	nstallation nal DTW	Time of Remo		
45 13	[전]	= 0.17, 4"= 0.66,	_		7:54	14.29		THIC	1.0		Time of Reins	tallation _	
	per diameter) 2 olume = D*SWF				Comments:	11.41	<u> </u>					T-10-1-12-1-1	
One Casing Vi Three Casing '		49				shrong							
		wn, black, cloudy	. areen			sulphu), organic	, other		Solids: fra	ace Small Qu.	Med Qu, Larg	e Qu, Part	iculate, Silt, Sand

Project N		Topock GMP					Samplin	ng Event		MP-125-Q2	
Job Nu Field	Team 1	31.MP.02.GM	Field Conditi	ons SUNWY				Date _ Page	5-03-	1	
								rage			
		MW-37D-125				mple ID NA	to the second second second		N	QC Samp	ole Time VA
Purge Star	rt Time 124	10				Method Z		Ded. Pu		7	
	Flow Cell (Y)	/ N		Min	. Purge Volume	(gal)/(L) 100	0.08_F	Purge Rate (	gpm)/(mLp	m)_3_	
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
30.73	1245	15	7.74	16,3	0.4	3,77	29,1	1,0	10	-79	
30,73	200 NO. 100 NO.	30	7.72	16,4	0.1	3,87	29.4	1.0	10	-33	
30,73	1255	45	7.72	16.5	01	3,94	29.8	1.0	10	+6	
30.73	1300	60	7.72	16.4	0,7	3.95	79.9	1.0	10	+24	
30:73	1305	75	7.73	16,5	0.1	3,93	30.0	1.0	10	+31	
		90	7.74	16,5	0.2	3.92	30.0	1.0	10	+36	
30.73	1310	105	7,75	100 Teles 1 Teles 1		3,91	30.0	1.0	10	+41	
30.73	1212	10.5	1613	16.6	1.0	-,11	200	1,0	10	11	
								-			
Parameter St	abilization Cri	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stablize prior to s		YES	YES	YES	YES	NA	425	YES	425	
Previous Field m		(3/7/2007)	7.67	18000	0.2	1.68	30.07	1.1	- 1	109	
Are measuremen	nts consistent with	n previous?	4ES	lover	YES	higher	NA	425	NA	laver	
Sample Time Comments:	1320	Sample Locatio	n: pui	mp tubing X	well port	spigot		bailer	other		
Initial Depth to	52	N			Measur	e Point: Well	€ St	eel Casing	WATE	ER LEVEL ME	TER SERIAL NUMBER: 12745
		of Well Depth (ft b	arcentral de la companya de la comp								Transducer NA
A DO RECOGNISCO AND		ase) ft btoc (22		·	-	/ Before Remov		Approx. 5 mir		nstallation nal DTW	Time of Removal
		= WD-Initial Dep			Time	30,43		Time		iai UTVV	Time of Reinstallation
		"= 0.17, 4"= 0.66, 1_33,36			1230	1 2017)					1
One Casing Vo					Comments:					***	
		wn, black, cloudy	, green		Odor: none,	sulphur, organic,	other	:	Solids: Tra	ace, Small Qu	, Med Qu, Large Qu, Particulate, Silt, Sand

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand Page 26 of 50

Project I		Topock CIS					Samplin	g Event	2007-CI	S-002	
9/5/40/94/40 9/5/40/96/96/40		31.MP.02.CI.00					15 3	Date	5/3/	107	
Field	Team 1	-	Field Conditi	ons		William		Page	of		6
Well/Sar	nple Number	CIS-017 /	1W-38D		QC Sa	mple ID NA				QC Samp	ple Time
Purge Sta	irt Time //	: 33			Purge	Method 2"	Gra	Ded. Pu	ımp	No	55.5 55656
	Flow Cell: Y	/ N		Min	ı. Purge Volume	(gal)/(L) _ 6 7	<u> </u>	urge Rate (	gpm)/(mLpn	n) 3	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity u priS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
70.71	11:37	12	7.72	19955	1.4	0.09	29.64	10.76	11.90	108.	3
70-10-	11:41	24	7.79	23554	0.9	0.07	30.14	12.90	14.08	105.1	/
70.10	11:45	36	7.81	23943	0.8	0.07	30.22			100.6	
70.71	11:49	48	7.81	23926	0.9	0.07			14.14	98.7	
	11:53	60	7.81	23918	0.8	0.07	30.25			97.5	
	11:57	72	7.82	23900	0.4	0.07	30.27			96.1	
Parameter St	tabilization Crit	teria	+/- 0,1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters	Stablize prior to sa	ampling?	У	Y	У	У	NA	У	4	У	
Previous Field m		(10/12/2006)	7.69	26300	1.34	1.25	30.83	1.62		-31	
	nts consistent with	- • 0000 a scandoro					NA				
Sample Time Comments:	1200	Sample Location	n: pur	np tubing X	well port	spigot	t	pailer	other		
- 85	Water (ft BTOC	<i>*</i>			Measur	e Point: Well (	rØc Stee	el Casing	WATER	R LEVEL ME	TER SERIAL NUMBER:
		f Well Depth (ft bt								lf T	Transducer
		se) ft btoc(19	10	0.89	200101000000000000000000000000000000000	/ Before Remova			After Reins		Time of Removal
the state of the s		= WD-Initial Dept = 0.17, 4"= 0.66,			71:30	Initial DTW		Time	7 8 7	I DTW	Time of Reinstallation
	olume = D*SWH				Comments:	ا ا ا ا عا			TO.	T 2	1
	/olumes =				Comments.						

Odor: hone, sulphur, organic, other

Project		Topock GMP					Samplin			MP-125-Q2	it camping Log	
		31.MP.02.GM	Field Condit	long	, ,	•		Date		3/07		
Field	d Team 1	months of the	riela Conait	ions sunn	y, clear, 7	05		Page	_l of			
Well/Sar	mple Number	MW-39-040-1	25		QC Sa	mple ID NA				QC Samp	le Time N/A	
Purge Sta	art Time 💂	6:56	1.14		Purge	Method Pe	ri	Ded. Pu	imp ne	)		
	Flow Cell			Mir	n. Purge Volume	(gal)(L) 3.7	P	urge Rate (	gpm)/(mLpi	m) .3		
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv		omments escription below
1206	7:16 4-6:50	0.6	-1.07 -6-70	32.7-2	7 17.5	2.47	25.33 25.19	1.5	15	-180 -186A	H	
12.08	APT 7:15	1.2	7.11	23.9	8.9	2.27	25.43	1.5	15	-185		
12.09	7:20	1.8	7.13	23.9	4.1	2.23	29.44	1.5	15	-187		
12.09	7:22	2.4	7-16	24.1	2.6	2.16	25.40		15	-189	1	
12.09	7:24	3.0	7.17	23.2	2.4	2.14	25.43	1	15	-191		- Company of the Comp
12.09	7:29	3.7	7.20	23.2	2.4	2.00 2.14.A1	1. 25.46		15	-194		and the second
12.09	7:27	4.0	7.21	23.4	1.9	2.01	25.49		15	-195		
Parameter S	Stabilization Cri	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV		
Did Parameters	s Stablize prior to s	ampling?	Y	У	У	V	NA			-55		
Previous Field		(3/5/2007)	5.69	8770	2		28.7	0.5				
100000000000000000000000000000000000000	ents consistent with		higher	higher	У		NA			lower		
Comments:	Deumid u		. Had to	mp tubing X			ttle. R					le in turbidity met
	o Water (ft BTO		83		_ Measur	e Point: Well	TOC Ste	el Casing	WATE			PHE -2005-01
	ed confirmation o pth - from databa	of Well Depth (ft b	1972/19 <del>4 #447/04</del>		- Initial DTM	/ Before Remov	(al				Fransducer	1.5
- N - 23		= WD-Initial Der	2.1) oth <b>30</b> •	27	Time	Initial DTV		oprox. 5 mir Time		al DTW	Time of Removal	6:51
	-	'= 0.17, 4"= 0.66,		(1 in)	6:52	11-83		37		89	Time of Reinstallation	7:32
	/olume = D*SWF	1			Comments:	11.60			1		1	
Three Casing		3.7							M	',		
2		wn, black, cloudy	, green		Odor: none,	sulphur, organic,	other	5		*	Med Qu, Large Qu, Pa	articulate Silt Sand

Page 27 of 50

Project I		Topock GMP				***************************************	Samplin	ng Event	2007-0	3MP-125-Q2	ck Sampling Log
V1517910000	Team 3456	31.MP.02.GM	Field Condit	lana		low		Date	9	13/07	
i ielu	1		Field Condit	ions Sunn	y, dear	ì 80s		Page	01	f	
Well/San	nple Number	MW-39-070-1	25		QC Sa	ample ID N	<b>A</b>			QC Sam	ple Time N/A
Purge Sta	rt Time	7:41			Purge	e Method	peri.	Ded. Pi	ump/	158500000000000000	. 4/16
	Flow Cell:	/ N		Mir	n. Purge Volume	(gal)(L) _ 7.	3 P	urge Rate			3
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
12.74	7:43	1.2	7.24	11.9	3.0	2.78	25.48	0.7	7	-88	
12.76	4:12	2.41.2	7.07	13.4	2.3	2.37	25.43	Ø.8	8	-86	
12.19	7:47	-3.62.4	6.95	20.2	1.3	2.20	25.43	1.2	13	- 56	
12.78	7:43	4.80 3.6	7.00	19.7	0.5	201	25.47	1.2	12	-45	
12.78	7:57	_6 4.8		19.1		2.03	25.45	1.2	11	- 37	
12.79	7:01	7346		19.1 18.0	. 0.9	2.01	25.46	1.0	11	-29	
12.19	8:0503			16.7	0.4	2.14	25.49	1.0	10	-24	
12.80	8:05	7.3	7.00	16.6	0.6	2.22	25.49	).0	10	-19	
12.79	8:07	8.0	7.12	16.7	0.6	2.08	25.50	1.0	10	-18	
Parameter St	abilization Crit		+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters	Stablize prior to sa	impling?	У	Y	У	У	NA			V	
Previous Field m	easurement	(3/5/2007)	6.74	8310	3		28.3	0.5		219	
	nts consistent with		higher	higher	lower		NA	4		Lower	
Sample Times  Comments:		Sample Location	Pui	mp tubing X	well port	spigot		bailer	other		
	Water (ft BTOC	/	12.66		Measure	e Point: Well	TOO Stee	el Casing	WATE	ER LEVEL ME	TER SERIAL NUMBER: PGE-2005-016
		Well Depth (ft bt				11			******	If T	 
	h - from databas		- 4	13		/ Before Remov	74	prox. 5 mir			Time of Removal 7:38
68		= WD-Initial Dept = 0.17, 4"= 0.66, 1		l in)	Time	Initial DTW		Time		nal DTW	Time of Reinstallation 8:11
- 55	lume = D*SWH		_	/	7: 39	12.66		:16	12.	74	
Three Casing V		7.3			Comments:						
		n, black, cloudy,	green		Odor:(none, s	ulphur, organic,	other	s	Solids: (ra	sce Small Qu,	Med Qu, Large Qu, Particulate, Silt, Sand

Project N		opock GMP					Samplin	g Event		MP-125-Q2	
	<b>+</b>	1.MP.02.GM	Field Caretiff			mid		Date _	5	13/07	
Field	Team 1	<del></del>	rieia Conditi	ons suna	hclear,	\$05		Page	of		
Well/San	nple Number[	MW-39-080-12	25		QC Sa	mple ID NA	<u> </u>			QC Sample	e Time N/A
Purge Star	rt Time	3:21			Purge	Method Pel	ri	Ded. Pu	<u>mp</u>	10	
	Flow Cell(Y)	N		Min.	Purge Volume	(ga)/(L)	1.6 P	urge Rate (	gpm)(mLp	m) 0.3	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
12.82	8:26	1.5	6.83	19.6	1.4	2.36	25.51	1.2	12	62	
12.86	8:31	2.9	6.85	23.5	0.7	2.02	25.49	1.4	15	53	
12.87	ART 8:3	14.3	6.80	26.2	0.7	2.22	25.55	1.6	160	53	
12.89	9:40	5.8	6.79	24.7	2.1	1.98	25.55		15	59	
12.90		7.3	10.87	25.5	2.5	2.03	25.57	1.0	16	57	
12.90	8:45 8:50 AH	84.9 AH	6.83	25.5 20.944	0.7	1.71	25.59		19	57	* in between
12.91	8:50	8.6	6.84	25.2	1.2	2.00	25.57	1	16	58	
12.91	8:52	9.2	6.84	24.3	0.9	1.96	25.55	1.6	16	58	
12.92	8:53	9.5	6.84	25.3	0.5	1.98	25.56	1.6	16	59	
Parameter St	tabilization Crite		+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stablize prior to sa		γ	Y	Y	Y	NA			У	
Previous Field n		(4/4/2007)	7.29	13400	0.2	0 '	25.7	0.8		157	
Are measureme	ents consistent with	previous?	OWE	higher!	Y	higher	NA	higher		lower	
Sample Time Comments:	8:55	Sample Location	n: pui	mp tubing X	well port	spigot		bailer	other		
	Water (ft BTOC		•		Measur	e Point: Well	TOC Ste	el Casing	WATE	ER LEVEL MET	TER SERIAL NUMBER: PAE-2005-01
Field measure	d confirmation of	Well Depth (ft b	toc ):							If T	ransducer
230 0	th - from databas	7.	2.55)	ا ملا		/ Before Remov		pprox. 5 mir			Time of Removal
(A) (A)	F	= WD-Initial Dep	_	1.84	Time	Initial DTV		Time		nal DTW	Time of Reinstallation 8:58
		= 0.17, 4"= 0.66, <b>2.86</b>	1"=0.041(	1 HIJ	8:17	12.71	9	:03	12	. 89	
	olume = D*SWH	8.6		····	Comments:						
Color: clear,		vn, black, cloudy	, green		Odor: rone)	sulphur, organic	, other	;	Solids: fra	sce) Small Qu,	Med Qu, Large Qu, Particulate, Silt, Sand

Well/Sample Number   MW-39-100-125   OC Sample ID   NA	Project N		opock GMP 1.MP.02.GM					Samplin	g Event _ Date	2007-GN	MP-125-Q2	0.00	
Purge Start Time 9:16   Flow Cell   N   Min. Purge Volume (agil)(L)   53.4   Purge Rate (groy) min.pm   Z	Field	min	1.02.00	Field Conditi	ons SUNNY	dear, h	igh 10s		-	1	1		
Purge Start Time 9:16   Flow Cell   N   Min. Purge Volume (agil)(L)   53.4   Purge Rate (groy) min.pm   Z	Well/Sam	ple Number	MW-39-100-1				mple ID NA	\			QC Sampl	e Time NA	
Water   Time   Voi. Furged gallons / Iters   PH   Conductivity   Turbidity   Diss. Oxygen   Temp.   Salinity   TDS   ENORP   Comments   (See description below   PT   Purple Rate (gamy) (ml.pm)   Z						Purge	Method redi	i-f10	Ded. Pt	umpN	00	•	
Vail   Illine   Salinary Reas   Illine					Min	. Purge Volume	(gal)(L) 53	3.4 P	urge Rate	gpm)(mLpn	n) Z		
13.78   9:14.53   14.75   1.71   1.		Time		pН						g/L	mv	1 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	
13.78   9: 13.75   6.93   80.9   0.8   1.87   26.54   4.0   46   102     13.78   9: 13.75   6.95   6.95   74.7   0.3   1.68   26.64   4.0   45   99     13.78   9: 13.79   9: 14.7   58   6.92   53.4   0.7   1.88   26.64   4.0   45   99     13.78   9: 14.7   58   6.92   53.9   0.6   1.76   26.67   34   33   103     13.79   9: 14.7   58   6.92   53.9   0.6   1.76   26.67   34   33   103     13.79   9: 14.7   58   6.92   53.9   0.6   1.76   26.67   34   33   103     13.79   9: 14.7   58   6.92   53.9   0.6   1.76   26.67   34   33   103     13.79   9: 14.7   58   6.92   53.9   0.6   1.76   26.67   3.5   32   1.02     13.79   9: 14.7   58   6.92   53.9   0.6   1.76   26.67   3.5   32   1.02     13.79   9: 14.7   58   6.92   53.9   0.6   1.76   0.5   1.93   26.67   3.5   32   1.02     13.79   9: 14.7   58   6.92   53.9   0.6   1.76   0.5   1.93   26.67   3.5   32   1.02     13.79   9: 14.7   58   6.92   53.9   0.6   1.76   0.5   1.93   26.67   3.5   32   1.02     13.79   9: 14.7   58   6.92   53.9   0.6   1.76   0.5   1.93   26.67   3.5   32   1.02     13.79   9: 14.7   58   6.92   53.9   0.6   1.76   0.5   1.93   26.67   3.5   32   1.02     13.79   9: 14.7   58   6.92   53.9   0.6   1.76   0.5   1.93   0.6   1.76   0.5   1.93   0.6   1.76   0.5   1.93   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5	14.37	9:10 20	9	7.04	83.7	1.1	2.22	26.15	40	4.00	4. 99		
13.78 9:24.53 36 6.95 8.44 1.1 1.71 26.54 4.0 46 102 13.78 9:35.40 45 6.95 72.7 0.3 1.68 26.64 4.0 45 99 13.78 9:45.45 54 6.91 53.4 0.7 1.88 26.64 4.0 45 99 13.78 9:47 58 6.92 53.9 0.6 1.76 26.67 36 33 103 13.78 9:47 58 6.92 53.9 0.6 1.76 26.67 3.6 33 103 13.79 9:49 62 6.92 32.54 0.5 1.78 26.67 3.5 32 102  **-0.1 pH units  **-0		9.1527	18	6.93	43	neissed	2.0%	26.80	3.5	33	104		
13.77 9:350 36 6.95 FFAM III 1.71 26.54 4.0 50 99 13.78 9:354 45 6.95 72.7 0.3 1.68 26.64 4.0 45 99 13.78 9:454 54 6.91 53.2 0.7 1.88 26.65 3.3 31 10el 13.78 9:47 58 6.92 53.9 0.6 1.76 26.67 3.6 33 103 13.79 9:49 62 6.92 53.9 0.6 1.76 26.67 3.5 32 102  Parameter Stabilization Criteria  Phythinis 4: 3% 4: 10% NTU when >10 NTUs NTU NTO NTUS NTU NTU NTO NTUS NTU NTUS NTUS NTUS NTUS NTUS NTUS		9. 79 22	ASTEI		-					2000	102		
13.78 9:45-10 45 6.95 74.7 0.3 1.68 26.66 4.0 4.0 45 99  13.78 9:45-15 54 6.91 53.2 0.7 1.88 26.65 3.3 31 102/  13.78 9:47 58 6.92 53.9 0.6 1.76 26.67 3.6 33 103  23.79 9:49 62 6.92 72.74 0.5 1.93 26.67 3.5 32 102  Parameter Stabilization Criteria  Phunits		9. 20 414			87.6	1.1		- No. 20 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -			99		
13.78   9:43us   54   0.91   53.4   0.7   1.88   26.65   3.3   31   1024     13.78   9:47   58   6.92   53.9   0.6   1.76   26.67   3.6   33   103     13.79   9:47   58   6.92   53.9   0.6   1.76   26.67   3.5   32   102     13.79   9:49   62   6.92   37.7   2.08   47.10% NTU wills when >10 NTUs   1.5 NTU when >10 NTUs when >1		0.20		The state of the s				727 2	-				
13.78   9.47   58   6.92   53.9   0.6   1.76   26.67   36   33   103		9.42.15											
Parameter Stabilization Criteria    +/- 0.1													
Parameter Stabilization Criteria  Did Parameters Stabilization Criteria  NA NA NA NA H-10 mV  NA V  NA NA NA NA H-10 mV  NA V  NA							<del> </del>						
Did Parameters Stablize prior to sampling?  Y Y Y NA  Previous Field measurement (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Are measurements consistent with previous?  Frevious Field measurement (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements consistent with previous?  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 26.22 1.5 170  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 20  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 20  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 20  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 20  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 20  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 20  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 20  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 20  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 20  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 2.73 20  Frevious Field measurements (4/4/2007) 7.02 25000 0.8 20  Frevious Field measurem	Parameter St	abilization Crit	eria			+/- 10% NTU units	55.5	NA	NA	NA	+/- 10 mV		
Are measurements consistent with previous?   lower   higher     A   lower   NA   higher   lower   lower				Y	Y	v	V	NA			V		
Sample Time 9: 51 Sample Location: pump tubing well port spigot bailer other comments: This well was marked 45 being DEDICATED, but, IT is NOT! Shad of a 9:22 to fix leach that was comments: This well was marked 45 being DEDICATED, but, IT is NOT! Shad of a 9:22 to fix leach that was commented. (Horisa in bucket). Blas. Restart 9:24. Took x-tra parameters because of conductivity.  Took Equip. Blank EB= 125-07 after this we notice that the parameters because of conductivity.  Well Depth to Water (ft BTOC): 13.10  Measure Point: Well TOO Steel Casing WATER LEVEL METER SERIAL NUMBER: P(1E-2005-01)  Time Initial DTW / Before Removal Approx. 5 min After Reinstallation Time of Removal Time of Reinstallation 9:57  O (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) 13.10 /0:02 13.32  The Casing Volume = D'SWH 17.8	Previous Field n	neasurement	(4/4/2007)	7.02	25000	0.8	2.73	26.22	The second second second second				
Sample Time 9:51 Sample Location: pump tubing well port spigot bailer other comments: This well was marked 45 being DEDICATED, but, IT is NOT: Shull off @ 9:22 to fix leach that was comments: This well was marked 45 being DEDICATED, but, IT is NOT: Shull off @ 9:22 to fix leach that was commentated. (Horisa in burket). Blass Restart 9:24. Took what parameters because of conductivity.  Took Equip. Blank EB= 125-07 affect this we notice that the parameters because of conductivity.  Well Depth to Water (ft BTOC): 13.10 Measure Point: Well TOO Steel Casing WATER LEVEL METER SERIAL NUMBER: P(1E-2005-01)  The Initial DTW / Before Removal Approx. 5 min After Reinstallation Time of Removal Time of Reinstallation 9:57  O (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) 13.10 /0:02 13.32  The Comments: Comments:	Are measureme		previous?	lower	higher	У	A-TY love	V NA	higher		longe		
was contained. (Horisa in bucket). Blas. Rostart 9:24. Took Atra parameters because of Conductivity.  Took Equip. Blank EB-125-07 after this we noted to water (ft BTOC):  Steel Casing Water Level Meter Serial Number:  If Transducer  No (Well Depth - from database) ft bloc (117.71)  SWH (Standing Water Height) = WD-Initial Depth 104.61  O (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)  O (Volume = D*SWH 17.8)  Comments:		This was	ALAC I	marked i	mp tubing	DEDICAT	spigot	IT 15	NOTE	other 5hul	off (	9:22 to fix leach the	aut
Initial Depth to Water (ft BTOC):   3.10   Measure Point:   Vell TOO   Steel Casing   WATER LEVEL METER SERIAL NUMBER:   P(1E-2005-01)    Field measured confirmation of Well Depth (ft btoc):   If Transducer    WD (Well Depth - from database) ft btoc   (117.71)   Initial DTW / Before Removal   Approx. 5 min After Reinstallation   Time of Removal    SWH (Standing Water Height) = WD-Initial Depth   104.61   Time   Initial DTW   Time   Final DTW    Or (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041   (2 in)    Or (Casing Volume = D*SWH   17.8   Comments:	was co	ortained. (1	Horisa in	bucket)	· Reas	Restart	9:24.	Took 1	Ktra 1	avame	lus bee	ause of Conductivity.	:c well
WD (Well Depth - from database) ft bloc (117.71)  SWH (Standing Water Height) = WD-Initial Depth 104.61  D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)  D (Sasing Volume = D*SWH 17.8)  Initial DTW / Before Removal Approx. 5 min After Reinstallation Time of Removal 7:06  Time Initial DTW Time Final DTW Time of Reinstallation 7:57  Comments:			10				_	~>	Took	Eguip	. blank	TER SERIAL NUMBER: P(1E-2005	5-01E
SWH (Standing Water Height) = WD-Initial Depth 104.61  Time Initial DTW Time Final DTW  O (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)  O (Sasing Volume = D*SWH 17.8)  Comments:	ield measure	d confirmation o	f Well Depth (ft b	otoc):		_					If T		
O (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)  O(Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)  O(Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)  O(Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)  O(Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)  O(Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)  O(Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)  O(Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)	AND THE COMMENTS OF THE PARTY O		and the state of t			-						11110 01110111	
One Casing Volume = D*SWH 17.8 Comments:												Time of Reinstallation 9:57	
One Casing Volume = D*SWH Comments:	O (Volume as	per diameter) 2"	= 0.17, 4"= 0.66,	1"=0.041	(2 in)		13.10		0:02	13.	32		
Three Casing Volumes = 55AH. 53.4		olume = D*SWH	17.8 5801 6	2 4		Comments:						H-0	

Project N		Topock CIS 31,MP.02.CI.00					Samplin	g Event Date	2007-CI		
Field	Team 1		Field Conditi	ons Silvy	windy			Page _	of		
	nple Number	CIS-005 /7	W-40D		QC Sa	mple ID NA				QC Samp	le Time
Purge Star	rt Time 093			Min		Method Z (		Ded. Pu urge Rate (		m) 3	
[	Flow Cell(V)	/ N	1	I IVIII I	. I dige volume	(gai)/(L) / t.		I GC TIACO	gp)/(ep.	···/	
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
111.38	0934	12	7.35	52.8	0,2	1.90	30.67	3.3	29	+73	
111.39	0938	24	7.37	41.4	0,1	1.93	31.04	Z.6	25	+53	
111.40	0942	36	7.40	35,4	0.1	1.95	31.38	2.2	21	+37	
111,40	0946	48	7,40	35.4	0.2	1.97	31.43	2.3	22	+30	
111.40	0950	60	7.40	37.6	0.1	1.98	31.45	2.4	23	+30	
111.40	0954	72	7.39	37.8	0.1	1.99	31.48	2.4	23	+25	
111.40	0958	성내	7.39	38.0	0.4	1.99	31,48	2.5	23	r21	
Parameter St	abilization Crit	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
-	Stablize prior to sa		YES	YES	YES	YES	NA	YES	YES	YES	
Previous Field m		(3/9/2007)	7.42	18600	0,5	0.62	31.68	1.1		54	
1	nts consistent with		425	higher	YES	higher	NA	higher	NA	SANS	
Sample Time Comments:	- 40-140	Sample Location	n: <sub>pu</sub>	mp tubing X	well port	spigot		bailer	other		
Initial Depth to	Water (ft BTOC	D: 110.15	}		Measur	e Point: Well/	foc Ste	el Casing	WATE	ER LEVEL ME	TER SERIAL NUMBER: 12245
Field measured	d confirmation o	of Well Depth (ft b	itoc):						*****	lf 7	Γransducer
187 (5)	th - from databa	999		77	-	/ Before Remov	2.70	oprox. 5 mir			Time of Removal
30		= WD-Initial Dep		5.5Z	Time	Initial DTW	<b>/</b>	Time	Fir	nal DTW	Time of Reinstallation
		= 0.17, 4"= 0.66, 1 76,48	1"=0.041(	£ 111)	0919	10.18					
	Volume = D*SWH				Comments:						
		wn, black, cloudy	, green		Odor: none, s	sulphur, organic,	other		Solids: Tra	de, Small Qu	Med Qu, Large Qu, Particulate, Silt, Sand

Project	Name PGE	Topock GMP					Samplin	g Event	2007-0	MP-125-Q2	
Job N	Number 3456	631.MP.02.GM	1				Cumpiiii	Date		107	
Field	d Team 1		Field Condit	ions Som	<u> </u>			Page _	of		·
Well/Sai	mple Numbe	r MW-44-115-1	25 mu-1	12-055-725	QC Sa	mple ID NA	· · · · · · · · · · · · · · · · · · ·			QC Sam	ple Time
Purge Sta	art Time 10 l	15			Purge	Method		DedPr	ump Tem	PRFZ	
323	Flow Cell:			Mir	n. Purge Volume		1.8 P				
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp.	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
8.64	1046	6	7.26	54.5	226	0.00	24.74	3.1	28	-7	
8.67	1051	17	7.14	19.5	1.13	1.77	24.79	1.2	17-	-135	
8.69	10 54	15	7.16	141.5	0.52	1.55	24.76	0.5	1	-139	
46.70	10 57	74	7.16	14.6	6.75	1.57	进77	0.9	10	-139	
4,69	[[00]	30	7.16	144	0.69	1.49	24.79	1.0	9	-139	
						27					
Parameter S	Stabilization Cr	iteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	s Stablize prior to			L			NA				
Previous Field	measurement	(4/2/2007)	8.31	18100	0.8	0	24	1.1		-2	
Are measureme	ents consistent wi	th previous?					NA				
Sample Time Comments: _	1101-	Sample Location	n: pu	mp tubing	well port	spigot		bailer	other		
Initial Depth to	o Water (ft BTO	oc): <u> </u>	1		Measur	e Point: Well	TOC Ste	el Casing	WATE	ER LEVEL ME	TER SERIAL NUMBER:
		of Well Depth (ft b			-					If '	Transducer
		ase) ft btoc (17			-	Initial DTW / Before Removal			n After Rein		Time of Removal
AD 1490/00 0000 000 0000 000 000 00000		t) = WD-Initial Dep		2 in\	Time Initial DTW Time Final DTW Time of Reinstallation					Time of Reinstallation \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
		2"= 0.17, 4"= 0.66,	1"=0.041	Z 111)	10,40	5.07		1115		レレ	
		H \$ 7.6	<del></del>		Comments:						
Three Casing					Odor: none, sulphur, organic, other Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand						
Color: clear, g	grey, yellow, bro	own, black, cloudy	, green		Odor: none, s	sulphur, organic,	otner	11	Solids: Tra	ace, Small Qu	, Med Qu, Large Qu, Particulate, Silt, Sand

Project N		Topock GMP 31.MP.02.GM			-		Sampling	g Event _ Date		MP-125-Q2	
Field	Team 1		Field Conditi	ons				Page _			
Well/San	nple Number	MW-44-070-1	25 mw-4,	2-065-125	QC Sa	mple ID NA				QC Samp	le Time
	rt Time 015	1000				Method		Ded:-Pt	mp Te	mp RTZ	
	Flow Cell: Y			Min	. Purge Volume	(gal)/(L) 27	. 6 Pi	urge Rate (	gpm)/(mLp	om) 2	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
,13	0958	6	692	70.5	1.15	1.18	24.55	1.2	13	-121	
.14	09 1001	12	6.86	17.6	096	5,36	24.53		11	-79	
1.15	1004	19	6.86	16.9	6.72	579	24.49		10	-71	
5,17	1007	24	4.87	15.8	0,62	11.84	24.52		10	-64	
17	1010	30	6.87	15.7	170	11.36	2452	0.9	10	-62	
5.16	1013	36	6.87	15.8	1.47	7.70	24.54	0.7	10	-60	of DO min be attended due to
			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	tabilization Crit				when >10 NTUs		NA NA				
Bearing to the second of the second of	Stablize prior to sa neasurement	(3/9/2007)	7	8700	1	0	25.1	0.5		-144	
measureme	ents consistent with	previous?					NA				
nple Time nments:	1015	Sample Locatio		mp tubing	well port	spigot		bailer			
	Water (ft BTO				Measur	e Point: Well	TOP Ste	el Casing	WATI	ER LEVEL ME	TER SERIAL NUMBER:
		of Well Depth (ft b				// D-f D					Transducer
		se) ft btoc <del>(7</del>			Initial DTW	/ Before Remo	/ \	pprox. 5 mi Time	n After Rei	nstallation nal DTW	Time of Removal
		= WD-Initial Der '= 0.17, 4"= 0.66,		(2 in)	0940	7.92		26		65	Time of Reinstallation
e Casino V	olume = D*SWF	1 へ.し	. 0.071		Comments:						4
ee Casing		11.6									

Odor: none, sulphur, organic, other

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

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

Project Job	NI b	Topock GMP 31.MP.02.GM					Samplin	ng Event Date		MP-125-Q2 30/2007	ock Sampling Log
Fiel	d Team 1		Field Condit	ions Sunnu	clear ski	ies, 70's		Page _	of		
Well/Sa Purge St		MW-43-075-1 9:44				ample ID N	A majos red	:41=		QC Sam	pple Time 10.05 N/A
T digo ot	Flow Cell			Mir	Purge n. Purge Volume	e (gal)/(L) 36			gpm/(mLp		
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
6.54	9:48	6	7.21	26.8	0.98	0.00	20.9	1.6	16	-199	
6.57	9:52	12	7.59	12.2	0.36	0.00	21. 2	0.7	8	- 209	7
6.58	9:55	18	7.68	12.1	0.16	0.00	21.3	0.7	8	-211	
6.59	9:58	24	7.72	12.0	0.11	0.00	21.3	0.7	7	-212	
6.60	10:01	30	7.77	12.1	0.14	0.00	21.3	0.7	7	-213	
(0,61	10:04	36	7.75	12.0	0.36	0.00	21.3	0.7	7	-213	
					_						
Parameter S	tabilization Crit	eria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Previous Field r	Stablize prior to sa neasurement ents consistent with	(3/6/2007)	7.89	yes	yes_	yes o	NA 24.1 NA	yes 1.6	yes	yes -151	
Sample Time Comments:	and the second s	Sample Location	Pull	np tubing X	well port	spigot ametev r	t	pailer	other	oks lik	e.
	Water (ft BTOC)	):			Measure	Point: Well	TOC Stee	el Casing	WATER	R LEVEL ME	TER SERIAL NUMBER: PGE - 2005-01A
		se) ft btoc (77			Initial DTW	/ Before Remova	al	F	46 5		Transducer
SWH (Standin	g Water Height) :	= WD-Initial Dept	h_70.8		Time	Initial DTW		Prox. 5 min Time	After Reins	tallation I DTW	Time of Removal
		= 0.17, 4"= 0.66,	1"=0.041(2	in)	9:44;sh						-Time of Reinstallation
	olume = D*SWH_ /olumes =	12.05 36.2			Comments:	N/A				-	
-		n, black, cloudy,	green		Odor none, si	ulphur, organic,	other	s	olids:(Trac	e,)Small Qu,	Med Qu, Large Qu, Particulate, Silt, Sand

10100000000000000000000000000000000000	U	Topock GMP 31.MP.02.GM	Field Conditi	one e			Samplin	Date		MP-125-Q2	
11010	1		r icia conditi	ons Sunny	clear			Page _	of		
	mple Number art Time 104 Flow Cell (Y		25	Min	Purge	mample ID NA temp. / Method 48	9F-2	Ded. Puurge Rate(	-0 /1	not wor	ole Time H:13 A.H. N/A
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
7.73	10:51	8	6.68	13.2	1.04	2.25	2107	0.8		-130	
7.70	10:55	16	6.64	14.2	1.71	1.92	21.20	0.8		-132	
7.71	10:59	24	6.65	14.2	1:62A1	1.1.61	21.24	0.8		-140	
7.71	11:03	32	6.65	14.1	1.30	1.53	21.24	0.8		-140	
7.73	11:07	40	6.65	14.1	2.0	1.46	21.24	0.8		-147	
7.73	11:12	49	6.65	14.0	0.83	1.42	21.23	0.5		-150	
Parameter S	tabilization Crit	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Previous Field r	s Stablize prior to so measurement ents consistent with	(3/6/2007)	yes 7.2	YLS 37300	Yes 0	yes	NA 24.4	ye5	_	y €5 -97	
Sample Time Comments: Sl V	11:13 Pump no Tal #.	Sample Location  † Working  New meta	· does	nptubing X Installed	well port  I fungo  ave TDS  Measure	showing		pailer 20' 6		R LEVEL ME	TER SERIAL NUMBER: PGE-2005-01A
	oth - from databa				Initial DTW	/ Before Remov	ral A-	nrov E	After Dai-		ransducer
		= WD-Initial Dep		71	Time	Initial DTW	1 1	prox. 5 min		stallation al DTW	Time of Removal 1030
		= 0.17, 4"= 0.66,		! in)	0930 6.29 11:2\$7 6.79 Time of Reinstallation 11:2					Time of Reinstallation	
One Casing Vo	olume = D*SWH	16.27			Comments:	NIA			1		
Three Casing \		48.8 wn, black, cloudy,	green		Odor: none.s	ulphur, organic,		s	Solids: (Tra	ce. Small Ou	Med Qu, Large Qu, Particulate, Silt, Sand

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

	Number 341	Topock GMP 5631.MP. o A.Hinckley	2 -GM Field Conditi	ons <u>Sunh</u>	<u>*</u>	-	Samplin	g Event Date Page		GMP_1	125- Q2
		mw-44-	070-12			imple ID (//)	W-44-(	10-12	5	OC Sar	mple Time
Purge Sta	art Time	36 10:57			Purge		i-flo	_ Ded. P		0.	
	Flow Cell: Y			Mir	n. Purge Volumé	(gal)/(L) _ 2{	3.9 P	urge Rate	(gpm)/(mLpi	m)(.5	5
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORF	P Comments (See description below
19.64	11:00	4.8	7.21	11.4	55.2	3.03	22,04	0.6	フ	-62	
19.40	11.4403	9.6	7.06	13.5	21.64	,2.59	72.43	0.8	8	-130	,
19.44	11:4406	14.4	7.00	14.1	10.6	2.48	22.45		9	-142	
19.44	11:12:10	19.2	7.14	(4.0	25	2.41	22.48	0.8	9	-147	
19.45	11:16 13	24	7.19	13.6	1.7	2.39	22.46		8 SAH		
19.40	11: Philo	28.8	7.19	13.4	1.3	2.39	22.46		8	-150	
			•				*,			, , , ,	
											8
Parameter St	abilization Crite	eria	+/- 0,1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 m\	V
Did Parameters	Stablize prior to sa	mpling?					NA				
	nts consistent with						NA				
Sample Time Comments:		Sample Location	: pun batore	np tubing X	well port	spigot		pailer	other _		
		I S			Measure P	oint: Well TO	C) Steel C	Casing	WATER L	EVEL MET	TER SERIAL NUMBER: PGF-2005-01
) (Well Depth -	from database)	ell Depth (ft btoc	12.	99	Initial DTM / P	oforo Domewal					ransducer
	Vater Height) = V		56.5		Time	efore Removal Initial DTW	Appro	T	fter Reinstal Final D	)TW	Time of Removal 10:51
		.17, 4"= 0.66, 1"=	- 43		10:50	15.98	-	29	16.13		Time of Reinstallation
e Casing Volun		9.6			Comments:		111		14-1-		2.7
ee Casing Volu		28.8						delegation of			
lor: clear, grey	, vellow, brown,	black, cloudy, gre	een	Ç	Odor none sulp	hur, organic, oth	ier	Sol	ids: Trace,	Small Qu, I	Med Qu, Large Qu, Particulate, Silt, Sand

Page 1 of 4

Project I		Topock GMP					Samplin	a Event		ТОРС	ock Sampling Log
	lumber Team		Field Condit				•	Date	514	07	
11010			riela Condit	ions				Page _	of		-
Well/San	nple Number	MW 4	4-115	-125	QC Sa	imple ID				, QC Sam	ple Time
Purge Sta	rt Time	1100				1	3WV	Ded. Pr	ump	165	
	Flow Cell: Y	N		Mir	n. Purge Volume	(gal)/(L) <u></u>	Igalp	urge Rate (	(gpm)/(mLpn	n) <u>59</u>	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp.	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
18.01	1103	9	8.04	13721	1.0	0.52	21.77	795	8.125	-53	3
17.99	1106	18	7.80	13772	0.0	0.34	2355	7.97	4.953		
1798	(109	27	2.78	13707		6.31	23.43	7.91	8,904		-
18.01	1112	36	7.74	13444	0-0	0.28	23 102	7.75	8,734	-40	[
18-03	1115	95	7.74	13391	0.0	0.26	23.64	7.72	8.702	-52	
10.8)	11 18	54	7.73	13366	6.0	0.22	23.64	7.71	8.670	-62	Ze 3/4/04
16.41	1124									-61	
										1	
						6					
Parameter St	abilization Crite	eria	+/- 0,1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stablize prior to sa						NA				
Are measuremen	nts consistent with	previous?					NA				
Sample Time . Comments:	1120	Sample Location	n; pur	np tubing	well port	spigot		pailer	other _		
itial Depth to Wa		/ell Depth (ft bloo		Га.	Measure P	oint: Well TO	Steel (	Casing	WATER L	EVEL METE	ER SERIAL NUMBER:
	from database)		):	1.0_	Initial DTW / B	efore Removal					ansducer
	332	WD-Initial Depth	(OC	2	Time	Initial DTW	Appr		fter Reinstal Final D	TW.	Fime of Removal
(Volume as per	diameter) 2"= 0	.17, 4"= 0.66, 1"=	=0.041 <u>()</u>	17						T	Time of Reinstallation
ne Casing Volun		17	-	[	Comments:						
ree Casing Volu		31			7				(1)		
olor; clear/grey	, yellow, brown,	black, cloudy, gr	een	(	Odor: none, sulp	hur, organic, oth	ner	Sol	ids; Trace,	Small Qu, N	Med Qu, Large Qu, Particulate, Silt, Sand

Project	Name PGE	Topock CIS								Тор	ock Sampling Log
	NI	31.MP.02.CI.00					Sampli	ng Event		CIS-002	
Field	d Team 1		Field Cond	itions		. /		Date		13/01	
					y, clear	1 100 3		Page		of	
		CIS-013 M	16-44-12	25	QC S	Sample ID C	IS-087			OC San	nple Time 7:45
Purge Sta	art Time	1:49			Purg	ge Method Re	di - Flo	Ded. P	ump f	Vo	7.75
	Flow Cell (Y	) N		Mir	n. Purge Volum	e (gal)/(L) 5	7.2	ourge Rate			
Water	Time	Val D				1	T	·		T	
Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxyger mg/L	Temp.	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
2620	11:56	9.5	7-14	(7.8	41.2	2.45	2254	(.)	1 )	/0	
24.84	12:05	19	7.24	14.7	10.5	2.20	23.07	0.9	9	-51	
26.86	12:15	28.5	7.29	14.7		208	23.82	0.9	9	-64	
26.75	12:24	38	7.37	17.6	5.2	201	2406		li	-62	
28.80	12:34	47.5	1.37	21.2	3.3	2.03	24.09		14	-49	
29.07	12:44	-51.252	-7.46	23.8	2.6	1.88	24.32	1.5	15	-68	
29.00	12:54	57.2	7.50	24.8	1.5	1.97	2444	1.5	15	-75	
28.80	12:50		7.51	25.0	0.8	1.91	24.54	1.5	15	-76	
28.86	+2:58		7.51	25.0	0.8	1.91	24.44	1.5	15	-76	
	12:57		+/- 0.1	+/- 3%	+/- 10% NTU	+/- 0.3	NA	NA			
Parameter St	abilization Crite	eria	pH units		units when >10 NTUs	mg/L	1	INA	NA	+/- 10 mV	
	Stablize prior to sa	mpling?	7.71	V	V	V	NA	-			
revious Field m		(4/3/2007)	7.71	15700	0.7	2.11	24.14	0.9		-1/18	
	nts consistent with		lower	higher	V	¥	NA	higher		higher	
ample Time omments:	(a) about	Sample Location 12:30 n, 40 Aloc	check	np tubing X flow ra gal. Po	te slov	ved; ina	reased	pailer purify	other power		ed up again. May have A.
	Water (ft BTOC)	Well Depth (ft btd	63		Measure	e Point; (Well	TOC Stee	l Casing	WATER	R LEVEL MET	TER SERIAL NUMBER: PGI-2005-
	n - from databas				Later Day				70.00	If T	ransducer
		WD-Initial Depth		.17	Time	/ Before Remov		orox. 5 min	T	tallation	Time of Removal
		0.17, 4"= 0.66, 1			11:33	14.63		ime : 24		I DTW	Time of Reinstallation
e Casing Vol	ume = D*SWH_	19			Comments:	14.62	/ / 5	. 47	18.1	17	-
ree Casing Vo	olumes = 5	7-2									
lor: clear gre	ey, yellow, brown	n, black, cloudy, ç	green		Odor none si	ulphur, organic,	other	Sc	olids Trace	e)Small Ou	Med Qu, Large Qu, Particulate, Silt, Sand
7.75.00										7	Luige Qu. Faruculate Sili Sand

Project	Nimeless	Topock CIS					Samplir	ig Event	2007-C		on Cumpling Log	
E-502 =	J Taom	31.MP.02.CI.00	Field Condit	ions		nigh		Date	5/4/	07		
1 101	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	2	riela Condit	Sunn	y, clear,	805		Page _	of			
2000	mple Number	CIS-009 /	IW-45-	095A		ample ID N				QC Samp	ole Time NA	
Purge Sta						Method Fed		Ded. P				
	Flow Cell Y	) N	T***	IVII	n. Purge Volume	(gai)/(L)	U-I P	urge Rate	(gpm)(mLp	m) 2		
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv		omments escription below
16.22	10:24	1.0 dy	8.06	7127	4.0	5.60	19.34	3.90	4.791	-77.9		
16.27	10:29	A42013.4	7.95	10516	4:61.1	0.64	20.8	5.96	6.827	- 80.8		***
16.27	10:3 \$1	3020.1	7.96	10488	1.0	0.47	20.81	1000 VS	6.813	W-28	2	
10.27	10:34	26.8	8.11	10460	0.8	0.41	20.19		6.796			
16.27	10:37	33.5	7.91	10457	1.3	0.35			1	-83.4		
	10:41	40.2	7.96	10378	0.7	0.32	20:18			-86.2		11 <del>22</del> 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
1	10:43	44	7.81	10337	0.5	0.30	20.76		TOTAL DESCRIPTION OF THE PARTY	-83.6		
								7.10				
Parameter S	tabilization Crit	eria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV		
	Stablize prior to sa	ampling?	Y	У	Y	У	NA	Y	Y	У		
Previous Field r	measurement ents consistent with	() previous?						-				
			I	V	1		NA				E-14	
	Pump se	Sample Location	30° b	np tubing X	well port	spigot	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	bailer	other .			t manage above
Comments	Turney Se	1 6		95.				• • • • • • • • • • • • • • • • • • • •				
										· · · · · · · · · · · · · · · · · · ·		
Initial Depth to	Water (ft BTOC	): 15-25			Measure	Point: Well	TOC Stee	el Casing	WATE	R LEVEL MET	TER SERIAL NUMBER	PGE-2005-01
Field measure	d confirmation of	f Well Depth (ft bt	oc): 9	3.90	[							
WD (Well Dep	th - from databas	se) ft btoc	nknow		Initial DTW	/ Before Remov	al Ac	prox. 5 min	After Reins	1 - U - A'	ransducer	10:08
		= WD-Initial Dept		45	Time	Initial DTW		Time		al DTW	Time of Removal	10:57
D (Volume as	per diameter) 2"=	= 0.17, 4"= 0.66,		2"	1668	15.25	/1	:02	15.	39	Time of Reinstallation	10.37
One Casing Vo	olume = D*SWH	13.3	7		Comments:	1,3						
Three Casing	Volumes = →	40.1		2000000	6				_	_		
Color clear, g	rey, yellow, brov	vn, black, cloudy,	green		Odor none, si	ulphur, organic,	other	S	Solids: Frac	e)Small Qu. I	Med Qu, Large Qu, Par	ticulate, Silt, Sand

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand Page 1 of 27

Job		E Topock CIS 631.MP.02.CI.00	Field Cond	itions				ng Event Date		01S-002 1/07	, Jy
			Tield Colld	HIDTIS SUN	ny clear	1-1905-1	00%	Page _	<b>_</b> _ of		-
Well/Sa	ample Numbe	r CIS-022 /	nw-46-1	75	QC S	ample ID N	Α			QC Sam	pple Time N/A
Purge St	tart Time	11:35			Purg	e Method	li-flo	Ded. P	ump D	EAST Y	Es.
·	Flow Cell: Y	) N		Mir	n. Purge Volume	(gal)(L) 7	9.2 P	urge Rate	gpm)/(mLp	om) 2 g	Jon
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
31.05	11:41	13.2	8.91	16516	1.4	0.51	22.57	9.70	10.73	-136.4	7
3103	11:48	26.4	8.95	16464	(0.8)	0.29				-132.2	
31.02	11:55	396	8.96	10480	0.5	0.23	24.81		10.71		
3101	12:01	52.8	8.97	16508	0.6	0.20	24.80	9.67		-135.7	
31.06	12:08	66	8.96	16518	1.4	0.18	24.84	9.68		-137.6	The second secon
31.08	12:15	79.2	8.97	16514	0.6	0.16	24.92	7.68		-137.4	
Parameter S	Stabilization Cri	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	s Stablize prior to s	ampling?		V	V	V	NA	Y	У	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Previous Field		(4/3/2007)	8.34	20700	0.5	2.01	24.7	1.2	-/	-135	
	ents consistent with		higher	lower	Y	lower	NA	higher		\/	
Comments:	Setup	Sample Location Caucoes from Cump, be	and duan	mp tubing to be ou 1'S DEL WL	meter b	igh press	sduce du	econ.'d	befor	e use.	mper position@ 212:25.
		f Well Depth (ft bt	oc).		Measure	e Point: (Well 1	Stee	l Casing	WATER	R LEVEL MET	TER SERIAL NUMBER. PGE -2005 - 018
		se) ft btoc (18			Initial DTW	/ Before Remova	al				ransducer
		= WD-Initial Dept		5.22	Time	Initial DTW	70	orox. 5 min Fime	After Reins	stallation al DTW	Time of Removal //:30
(Volume as )	per diameter) 2"	= 0.17, 4"= 0.66, 1	1"=0.041(2	2 in)	11:27	24.58			1 1118	11 11 1 1 1	Time of Reinstallation
ne Casing Vo	olume = D*SWH				Comments:	-4.50			1	I	
hree Casing \	Volumes =	79.1			~>					<u> </u>	
olor: clear) g	rey, yellow, brov	vn, black, cloudy,	green		Odor: none si	ulphur, organic, o	other	S	olids: Trac	e Small Qu. I	Med Qu. Large Qu. Particulate, Silt, Sand

Topock Sampling Log PGE Topock GMP **Project Name** 2007-GMP-125-Q2 Sampling Event Job Number 345631.MP.02.GM Date Field Team Field Conditions Page MA Well/Sample Number MW-46-205-125 QC Sample ID NA QC Sample Time 3WV Ded. Pump \_ \( \subseteq \tag{D} Purge Start Time Purge Method 100 Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) Flow Cell Water Time Vol. Purged pH Conductivity Turbidity Diss. Oxygen Salinity TDS Eh/ORP Comments Temp. gallons / liters Level mS/cm NTU mg/L oC g/L mv (See description below 0.0 1.0 13.20 0 3,20 100 25 07 25.35 12,14 0.0 13.23 25.12 100 xe 5/4/04 -13 33.80 20373 12.15 05 C. 0.13 13.24 +/- 0.1 +/- 3% +/- 10% NTU +/- 0.3 NA NA NA +/- 10 mV pH units units mg/L when >10 NTUs Parameter Stabilization Criteria Did Parameters Stablize prior to sampling? NA Previous Field measurement (3/8/2007)6.42 18100 0 28.1 1.1 159 Are measurements consistent with previous? NA

Sample Time 1275 Sample Location: pump tubing Comments: Dank Dank Sample Location: pump tubing Dank Sample Location:	well port before pru	ngue this u	rell, after MW-44-115
Initial Depth to Water (ft BTOC): 27.19	Measure Point: Well TOC	Steel Casing WATER LEVEL	METER SERIAL NUMBER:
名Field measured confirmation of Well Depth (ft btoc): スノサ			f Transducer
OVD (Well Depth - from database) ft btoc (224.67)	Initial DTW / Before Removal	Approx. 5 min After Reinstallation	Time of Removal 1155
SWH (Standing Water Height) = WD-Initial Depth	Time Initial DTW	Time Final DTW	Time of Reinstallation 1240
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)	155 27.19	1245 2721	Time of Refristaliation
One Casing Volume = D*SWH 33 .49	Comments:	0.4,-	
Three Casing Volumes = \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	A		
Color: clear, grev. yellow, brown, black, cloudy, green	Odor: none, sulphur, organic, other	Solids: Trace. Small (	Qu. Med Qu. Large Qu. Particulate. Silt. Sand

	Number 34563	Topock GMP 31.MP.02.GM	Field Condit				Samplir	g Event Date	2007-G	MP-125-Q2	
rieic	1		riela Conail	Sunv	4, Slight Br	corc,		Page	of	l	
Well/Sai	mple Number	MW-47-115-1	25		QC Sa	ample ID N	A			QC Samp	ole Time
Purge Sta	art Time	2719 08	36		Purge	Method/VoBi	in Redif	(O Ded. Pi	ump	,	
	Flow Cell			Min		(gal)/(L) 45				m) /, 5	gpm
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
28,60	0840	6	7.52	13 189	1.5	0.22	27.20	7.24	8.27	145.2	
28.62	0844	12	7.56	13318	0.4	0.11	27,70	7.24	8.23	139,0	
28.62	0848	18	7.61	13560	0.5	0,21	27.90			135.7	
28.64	0852	34	7,63	13604	0,8	0.19	25,01	736		132.8	
28,64	0856	30	7.64	13712	0.7	0.22	28.13	7.40	8.41	130,7	
38.64	0900	36	7.64	13772	0.7	0.21	28,22		8.43	128,5	
28.66	0904	72	7.64	13775	0.5	0,20	08.18	7.43		126.3	
28,66	0908	48	7.64	13776	0.2	0,20	28.18	7.43	8.44	125,5	
				7 1 9				1. 17			
Parameter S	tabilization Crit	eria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters	Stablize prior to sa	mpling?			V		NA				
Previous Field r		(3/6/2007)	7.61		0.37	0.33	28.7			-34	
Are measureme	ents consistent with	previous?	/	V	Y	Y	NA			N	
Sample Time Comments:	0910	Sample Location	n: pur	mp tubing 🗸	well port	spigot		bailer	other		
	Water (ft BTOC				Measur	e Point: Well	TOC Ste	el Casing	WATE	R LEVEL ME	TER SERIAL NUMBER:
	d confirmation of									lf T	ransducer
	th - from databas			37	Initial DTW / Before Removal				After Rein		Time of Removal 0829
	g Water Height) per diameter) 2":		•		Time         Initial DTW         Time         Final DTW           0879         27.03         0919         27.65					Time of Reinstallation _ 0 9/4	
	per diameter) 2 = olume = D*SWH		1 -0.041	7		W1.V5	107	14	< 1.	ØΣ	
Three Casing V		H5			Comments:				# 10 Mills - 1 Ame		
~	rey, yellow, brow	n, black, cloudy,	green		Odor none, s	ulphur, organic,	other	S	Solids Tra	ce, Small Qu.	Med Qu, Large Qu, Particulate, Silt, Sand

Project		Topock CIS					Samplii	ng Event	2007-Ç		ck Sampling Log	
		31.MP.02.CI.00						Date	5/4/0			
rieid	d Team1		Field Condit	ions	Solution of the same			Page	of	1		
	mple Number		1W-47-6	55		ample ID N				QC Samp	ole Time	
Purge Sta	nt Time	756			Purg	e Method Men	142 Red	P Ded. P	ump		0.000	
	Flow Cell Y	/ N		Mir	n. Purge Volume	e (gal)/(L)	1.2aAE	urge Rate	(gpm)/(mLpr	m) 261	om	
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	(See	Comments description below
37.61	758	4	7.58	4/64	5.3	2.71	27.12	2/3	2,62	118,3		
7.61	759	G	7.57	4252	9,1	2.33	27.44	2.15	2.65			· · · · · · · · · · · · · · · · · · ·
7.61	800	8	7.57	4281	12.9	2,28	27.53	1				
765	501	10	7.56	4284	20,0	2,25	27.54	3/6	2.65	174,0	>	-
17.66	623	17	7,56	4295	15,2	2.24	27.61	2.16	2.65	112.5		
17.68	803	_/Y	7,56	4292	16.7	2,27	27.60	2.16	0,65	110.0		4200
17.74	804	(6	7.55	4294	14.5	3.28	27,60	2.16	265	111.6		
ırameter Sta	abilization Crite	eria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV		
	Stablize prior to sar			V	V	V	NA	V			1	
vious Field m	neasurement ( nts consistent with	3/6/2007)	7.54	9400	1.38	3.09	28.19	0.5		55	-	
	55		9	N	N	N	NA	$\sim$		N		
mple Time( mments:	0810_	Sample Location	i: pur	up tubing	well port	spigot		oailer	other			
	Water (ft BTOC)	27.18 Well Depth (ft bt			Measure	e Point: Well 1	TOC Stee	el Casing	WATER	LEVEL MET	ER SERIAL NUMBE	R:
	h - from databas				Initial DTM	/ Defess D					ransducer	
		WD-Initial Dept		2	Time	/ Before Remova			After Reinst		Time of Removal	2450 550
		0.17, 4"= 0.66, 1								Time of Reinstallation	2200	
	ume = D*SWH	the state of the s	0.041			2/110	108	01	27.1	0		
e Casing Vo		14.2			Comments:				-			
0		n, black, cloudy,	green		Odor none, su	ulphur, organic, o	other	s	olids: Frace	Small Qu. N	Med Qu, Large Qu. P	articulate Silt Sand

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

Topock Sampling Log

Project N		Topock GMP 31.MP.02.GM		103 F 1092 ( 27)			Samplin			MP-125-Q2	
	Team 1	31.MP.UZ,GW	Field Conditi	onsSway	/m+			Date Page	4/30 0 L of		· · · · · · · · · · · · · · · · · · ·
	nple Number					imple ID NA				QC Samp	ole Time
Purge Star	rt Time 041	· · · · · · · · · · · · · · · · · · ·	-	Min	Purge . Purge Volume	Method Tevni (gal)/(L) 巧み				m) I gpu	n (1450 Hz) - 264 Hz
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
38.20	0456	3	7.52	20.9	37.8	4.38	29.14	1-3	13	-8万	
74.49	0459	6	7.44	21.0	15.2	4.34	24.26	1.3	13	-50	
54.15	1002	0	7.32	21.1	8.19	430	201.34	1.3	13	-41	
68.85	1005	12	7.43	21/	5.9	4.14	2991	1,3	13	-32	
78.95	1008	15	7.49	21-2	6.17	4.20	29.73	1.3	13	-30	
47.75	1011	15	7.75	21-3	6.3	4.08	30.45	1.3	13	-32	
101.05	1014	21	8.14	21.1	7.9	4.10	30-35	1.3	.13	-22	
113.15	1017	24	8.63	21.2	14.1	4.06	31.05	1-3	13	1	
120.58	1020	27	872	21-1	16.9	4.05	31.904	1.2	13	13	
Parameter St	abilization Crit	eria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/ 10 mV	
	Stablize prior to sa	ampling?					NA				
Previous Field m	neasurement nts consistent with	(3/6/2007) previous?	7.5	20700	14	0.91	30.63	1.2		-128	
Sample Time	stand pr	Sample Location PT NEWLS P FOV UNSAM	to be	np tubing Filled w	well port	spigot	NA 	pailer	other		
nitial Depth to	Water (ft BTOC	D:		50	Measur	e Point: Well	TOC Ste	el Casing	WATE	R LEVEL ME	TER SERIAL NUMBER: 12911
		f Well Depth (ft b		-10	Initial DTA	/ Before Remov					Fransducer NA
	th - from databa g Water Height)	se) ft btoc (13 = WD-Initial Dep	n l-s	.41	Time	Initial DTW		prox. 5 min Time		stallation al DTW	Time of Removal
		= 0.17, 4"= 0.66,			, mile	di Div					Time of Reinstallation
	olume = D*SWH	17.9			Comments:				1		1
hree Casing V	/olumes =	जिम स								***	

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

Topock Sampling Log Project Name PGE Topock GMP 6MP. 125 . RZ 2007 Sampling Event Job Number 349 631 · MP . 02 · 6M 4/30/17 Date Field Conditions CMMM/Wor Field Team Page Well/Sample Number MW 48 124 QC Sample ID NA QC Sample Time Purge Start Time Purge Method Temp 12FZ Ded. Pump 150 the - 264 Hz Min. Purge Volume (gal)/(L) 538 Flow Cell Y 1 hpm Purge Rate (gpm)/(mLpm) Water Time Vol. Purged pH Conductivity Turbidity Diss. Oxygen Temp. Salinity TDS Eh/ORP Comments Level gallons / liters mS/cm NTU mg/L oC g/L mv (See description below 2735 1023 20 20.9 1.3 18.9 201 31.91 3 20 well detwn tweet in llong 110,76 14.0 11 0.8 none 9 98 today +/- 0.1 +/- 3% +/- 10% NTU +/- 0.3 NA NA NA +/- 10 mV pH units units mg/L Parameter Stabilization Criteria when >10 NTUs Did Parameters Stablize prior to sampling? NA Are measurements consistent with previous? NA 5/1/8 Sample Location: Sample Time pump tubing well port other Comments: meter IRA Initial Depth to Water (ft BTOC): Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: Field measured confirmation of Well Depth (ft btoc): 176.10 If Transducer WD (Well Depth - from database) ft btoc Initial DTW / Before Removal Approx. 5 min After Reinstallation Time of Removal 05.4 SWH (Standing Water Height) = WD-Initial Depth Time Initial DTW Time Final DTW Time of Reinstallation D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 17.0 One Casing Volume = D\*SWH Comments: 173. B Three Casing Volumes =

Odor none, sulphur, organic, other

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

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

Project N	lame PGE	Topock GMP					Samplin	a Event	2007-GN	MP-125-Q2	Sampling Log
Job Nu	04000	31.MP.02.GM			7.40		oumpiin	Date		57	
Field '	Team 1		Field Conditi	ons LOO	L. Sunn	.U		Page _	of of		
Well/Sam Purge Start	-01		25 5/4/8 e Stayso	Mir		79,4	WV	Ded. Puurge Rate (	ump //	oc Sample  of Sample	Time NA
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp.	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
30.6	0715	5	7.58	13418	7	0.40	24.44	7.74	8.7	172.2	
29.4	0725	10	7.67	13.467	17	0.54	24 W	7.76	8.75	-476	
29-3	0735	15	7.45	13.463	56	0.48	24.67	7.76	8.75	-109.2	
29.4	0745	20	7.69	13.484	188	0.42	24.85	7.77	8.76		
29.5	0755	25	7.69	13.501	173	0.43	24.86	7.78	8.76	43	
29.5	0805	30	7.70	13.491	165	0.39	2492	7.72	8.77	-144	
Parameter Sta	abilization Crite	eria	+/- 0,1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stablize prior to sa						NA				
revious Field me	easurement ( its consistent with	(3/9/2007) previous?	7.5	30500	51	0.25	25.4 NA	1.9		-173	
omments:  itial Depth to V	Decon.	d wi w  27.  Well Depth (ft bi	toc): [3	np tubing to av	Measure	ر که دی	TOC Stee	el Casing		lf Tra	Slope 5169003 ER SERIAL NUMBER: POT 2005  ansducer Time of Removal
(Volume as pe	er diameter) 2"= ume = D*SWH	= WD-Initial Dept = 0.17, 4"= 0.66, 9.8   <del>18 -</del>	1"=0.041 (1	.5 in) \$ 09	Time 0648	Initial DTW 27.2		Time	Fina	LDTW	ime of Removal 0041
		black, cloudy,	green	109	Odor none s	ulphur, organic,	other	s	Solids Trac	e)Small Qu, M	led Qu, Large Qu, Particulate, Silt, Sand Page 44 of 50

Project I Job N		Topock GMP 31.MP.02.GM			1.00		Samplin	g Event _		MP-125-Q2	(2.72
Field	Team 1		Field Condi	ions <u>Sun</u>	ny iclear	105		Page _	_ ļ of	1	<u>C. 7 </u>
Well/Sar	nple Number	MW-49-275-1			ATA 100000000000000000000000000000000000	mple ID N	١			QC Samp	ple Time N/A
Purge Sta	irt Time 6:	57			Purge	Method 100	11-610	Ded. Pt	ump	70	
	Flow Cele Y	)/ N		Mir	. Purge Volume	(gal)/(L) 12	5.5 P	urge Rate (	(gpm)/(mLpr	m) 3	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
34.05	7:04	21	8.43	23518	2:625.9	0.57	25.61	14.18	15.25	-83.3	
34.08	7:11	42	8.47	22997	3.6	0.36	26.37	13.85	14.93	-95.6	
34.13	7:18	63	8.73	23480	2.5	0.27		-		-165.9	
34.14	7:25	84	8.78	23558	1.7	0.23				-181.9	
34.14	7:32	105	8.80	23628	1.60	0.23	-			-188-2	
34.15	7:39	126	8.74	23656	1.6	0.19		1		-189.9	
2	tabilization Cri	Andia	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
	Stablize prior to s		V	V	v	V	NA	V	V	V	
Previous Field n	measurement	(3/9/2007)	7.94	37700	б	0.24	27.6	2.3		-228	1
re measureme	ents consistent with	h previous?	higher	lower	higher	У	NA	higher		higher	
omments:	Using	Sample Location Blain-Technology &	4 YSI			spigot 3 AL .		bailer	other	J	
	Water (ft BTO		8.61		Measur	e Point: (Well	TOC Ste	el Casing	WATE	R LEVEL ME	TER SERIAL NUMBER: PGE -2005.
		of Well Depth (ft b	503 <del>-1011-11</del>		leiti-LDTM	/ Defect Desire	ual .				Transducer
		ase) ft btoc (2' = WD-Initial Dep		6.09	Time	/ Before Remov		pprox. 5 mii Time	n After Rein	stallation al DTW	Time of Removal
12-11-2-2-20 12 <b>-</b> 01-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2		"= 0.17, 4"= 0.66,	201025 <del> </del>	(2 in)	w:45	28.61		:54	2455000	5.68	Time of Reinstallation 7:48
	olume = D*SWH	,,,	8		Comments:	1 20.01		.51	1 20	7.40	4
		wn, black, cloudy	, green		Odor: none	ulphur) organic,	, other		Solids: Trac	ce Small Qu.	, Med Qu, Large Qu, Particulate, Silt, Sand

													A CALL STATE OF THE STATE OF TH
Project N		Topock GMP					Samplin	g Event		MP-125-Q2			
	Team 1	31.MP.02.GM	Field Condit	ions S	LI E DA ANC	Ma		Date _ Page _		1/07			
				Juni	y, clear	1 103		- age _					
Well/San	nple Number	MW-49-365-1	25			mple ID NA				QC Sample	e Time 🔥	)/A	
Purge Sta	rt Time	9:14			Purge	Method Rea	di-Flo	Ded. Pu	ump/V	0 <		,	
	Flow Cell	/ N		Min	. Purge Volume	(ga)/(L) 17	1.8 P	urge Rate	(gpm) (mLpi	m)	slowed to 2	.5	
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	(Se	Comment e description	
36.28	8:23	29	8.60	37069	1.0	1.89	25.73	23.44	424.0	- 217.2	slowed	after	l st parameter
36.28	8 . 35.3	1457	8.62	36836	1.9	1.09	26.55	23, 25	7393	-220.9			
27 9.11	a call 24	81.	8.64	36717	1.2	-87		-		-Z05. 8	-		<u>              </u>
21 27 100	255	AH-								-19/.1			
36.33 8.9	2000	1-114	8.64	37311	1.1	0.21			ļ	1	<u> </u>		
36.35	1761:224	1 143	8.67	37352	4.4	0.16	-			-188.7	ļ		
39 9.2	34 AL	1.172	8.67	31373	4.9	0.13	27.86	23.60	24.29	-184.3			
	9:25 AM.												
				. Well									
Parameter S	tabilization Crit	teria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV			
	Stablize prior to sa		VI	V	7	V	NA	¥	V	4			
Previous Field r		(3/9/2007)	7.49	42800	1	0	30.2	¥ 2.8	7	-237			
E - 10 E - 10 E	ents consistent with	A1.	higher	lower	higher	Y	NA	higher		Töhighe	4		
Sample Time Comments:	Shut of		fley Pa	imp tubing X trameter to fore use		spigot Centainer		bailer	other				
Initial Depth to	Water (ft BTOC	30	0.47		Measur	re Point: (Well	TOC Ste	eel Casing	WATE	R LEVEL MET	ER SERIAL NUM	BER: PGE	É-2005-01B
Field measure	d confirmation o	of Well Depth (ft b	otoc):	<del></del> -	- [					If T	ransducer		
WD (Well Dep	th - from databa	ise) ft btoc (3	67.35)		Initial DTW	/ Before Remo	val A	pprox. 5 mi	n After Reir		Time of Removal		1:59
33		= WD-Initial Dep	10.50		Time	Initial DTV		Time		nal DTW	Time of Reinstalla	tion	1:34
		'= 0.17, 4" <b>=</b> 0.66,	1"=0.041	(2 in)	7:57	30.47	9	:39	30.	73			,
One Casing Vo	olume = D*SWH	57.3			Comments:								
Three Casing	Volumes =	1,11.8				strang				`			
Color clean	grey, yellow, brow	wn, black, cloudy	, green		Odor: norfe,	sulphur, organic	, other		Solids:(Tra	ce,/Small Qu,	Med Qu, Large Qu	ı, Particulate	e, Silt, Sand

Tro Project	Name DGE	Topock GMP								Торо	ck Sampling Log	
	lumber		علاء علا	1.21 M	1.02.6	4 I/M	Samplin	ng Event			-125-Q	2_
KLG. Field	Team Au	indelly	Field Conditi	ions over c	4.02.C	f n. 1		Date		2/07		
					WO 51			Page _	l of		1	
Well/San	nple Number	MM-	50-09	5	QC Sa	ample ID	NIA	l		QC Samp	ole Time NA	
Purge Sta	rt Time	822_			Purge	Method av	indfos	Ded. Pu	ump	10		
	Flow Cell Y	N		Mir	n. Purge Volume	(gal)(L) 2	<u> </u>	urge Rate	gpm)/(mLpr	n) <u>Z</u>		
Water Level	Time	Vol. Purged gallons / liters	рН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	(See	Comments description below
40.63	0823	2	7.36	4.2	5. 2	94.9	24.1	2.3	2.77	116.6		
40.63	6826	- 8	7.41	4.53	13.4	6.0	28 63	2.24		120.2		
40.63	0829	14	7.47	5.04	13.2	26.5	.28.9		3.07	125,0		
40.63	08.32	20	7.77	5.30	8.6	31.3	28.9	2.63		130.0		
40.63	0835	26	7.79	5.33	5.0	31.8	29.0		3.22	131.0		230000 001100 200 0000
40.63	0838	32	7.78	5.34	2.7	31.3	29.0	2.65		133.7		
40.63	0839	34	7.79	5.38	1.3	31.3	29.0		3.25	134.4	1	
40.63	0840	36	7.79	3.39	1.3	31.4	29.0	• 600 100 100 100 100 100 100 100 100 100	3.26	134.7		
Parameter Sta	abilization Crite	eria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV		
	Stablize prior to sa		Ý	Y	Y	14	NA			7		
	ts consistent with						NA					
Sample Time _ Comments:	0845	Sample Location	: рип	np tubing	well port	spigot .		pailer	other _			
tial Depth to Wa	15	40. Yell Depth (ft btoc	45 40		Measure P	oint: Well TO	Steel (	Casing	WATER L	EVEL METER	R SERIAL NUMBER:	PGE 2005-62
D (Well Depth -			( esti	natures A.H.	Initial DTW / B	efore Remove!				If Tra	nsducer	
		WD-Initial Depth	34	556.22		Initial DTW	Appro		ter Reinstall	111	ne of Removal	0816
		.17,4"= 0.66, 1"=	0.041A.	6.00341	0813	40.22	085		Final D	Tir	ne of Reinstallation _	0848
ne Casing Volum	ne = D*SWH	36.003			Comments:				10, 2	<u> </u>		
ree Casing Volu	ımes =	108	28.7									
olor: clear grey	, yellow, brown,	black, cloudy, gre	een	c	odor:(none) sulp	hur, organic, othe	er	Soli	ds: Trace. S	Small Qu. Me	d Qu. Large Qu. Parti	culate Silt Sand

Topock Sampling Log

Project N Job Nu	amber 34563	Topock GMP 31.MP.02.GM	Field Conditi		<del></del>		Samplin	Date	2007-G	MP-125-Q2	
Field	ream 1		Field Conditi	ons GUNWY	Imit			Page _	l of	\	
Well/Sam		MW-50-200-1	25		QC Sa	ample ID NA	\			QC Samp	ple Time NIA
Purge Start	Time 14	35			Purge	Method TEM	np. 12F	2 Ded. Pu	ımp		
	Flow Cel(: Y)	/ N		Mir	n. Purge Volume	(gal)(L) 83	<del>4</del> P	urge Rate (	gpm)/(mLp	m) 3	
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
46.13	1439	12	7.65	24.0	8.1	4.35	31.00	1.5	15	53	
46,01	1443	24	373	240	6.8	4.51	31.09	1.5	1.5	56	
45,91	1447	20	7.73	23.9	2.6	4.60	31/7	1.5	15	59	
45.80	1451	48	7.73	27.8	0,8	4,67	31,22	1.5	15	61	
46.72	1455	60	7.73	23.8	1.5	4.70	31.22	1.15	15	63	
45,68	1459	72	7.72	23.7	18	4.74	31.27	1. 4	15	64	
45.64	1503	84	772	23.7	2.0	4.7%	31-27	1.4	15	104	
Parameter Sta	abilization Crit	oria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters S	***				V	<b>/</b>	NA	/		<b>/</b>	
Previous Field me		(3/7/2007)	7.78	25600	0.4	3.22	29.83	1.6		114	
Are measurement	ts consistent with	previous?					NA				
Sample Time _ Comments:	15/15/10	Sample Location	n: pur	np tubing X	well port	spigot		bailer	other		
Initial Depth to V					Measur	e Point: Well	TOC Ste	el Casing	WATE	R LEVEL ME	TER SERIAL NUMBER: 125 //
		Well Depth (ft b		47						lf 1	<b>Fransducer</b>
WD (Well Depth			)4.5) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	21 %		/ Before Remov		prox. 5 mir	-		Time of Removal
200	376 33	= WD-Initial Dep = 0.17, 4"= 0.66,			1404	Initial DTW		Time 5 16		al DTW	Time of Reinstallation 15/
D (Volume as pe One Casing Volu Three Casing Vo	ume = D*SWH	240	1 -0.041		Comments:	11.21		J 10	] }1.	7	L
		vn, black, cloudy,	(green		Odor: none.'s	ulphur, organic,	other	S	Solids: Tra	ce. Small Ou.	Med Qu, Large Qu, Particulate, Silt, Sand

Odor: none, sulphur, organic, other

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

Topock Sampling Log Project Name PGE Topock GMP 2007-GMP-125-02 Job Number Sampling Event \$45631. mp.02.4m Date Field Team Field Conditions overcest sunny, 905 Page of Well/Sample Number QC Sample ID N/A QC Sample Time Purge Start Time Tump pump Ded. Pump No Purge Method Flow Cell: Y / N Min, Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) Water Time Vol. Purged pH Conductivity Turbidity Diss. Oxygen Level Temp. Salinity gallons / liters TDS Eh/ORP mS/cm NTU Comments mg/L g/L mv (See description below . 22.3 29.9 6.2 7.45 30.3 86 72.34 11:33 7.42 11.1 3.30 30.1 0.6 85 22.41 11:44 7.41 10.7 0.5 3.45 88 20.0 11:56 7.40 10.4 3.48 30.0 0.6 52.40 11:07 7.40 134 10.3 0.3 365 30.0 0.6 94 +/- 0.1 +/- 3% +/- 10% NTU +/- 0.3 pH units NA NA +/- 10 mV units Parameter Stabilization Criteria mg/L when >10 NTUs Did Parameters Stablize prior to sampling? NA Are measurements consistent with previous? NA Sample Time 12:0 Sample Location: pump tubing bailer Comments: Ortssure nitial Depth to Water (ft BTOC): Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ield measured confirmation of Well Depth (ft btoc ): /D (Well Depth - from database) ft bloc 3425 A.H. If Transducer Initial DTW / Before Removal Approx. 5 min After Reinstallation WH (Standing Water Height) = WD-Initial Depth \_\_\_ Time of Removal Time Initial DTW Time Final DTW (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

Time of Reinstallation 10:50 113.40 12:21 Comments:

olor: clear, grey, yellow, brown, black, cloudy green Odor none, sulphur, organic, other

ne Casing Volume = D\*SWH

ree Casing Volumes = -

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

										Торо	ck Sampling Log
Project		Topock GMP					Samplin	g Event	2007-G	MP-125-Q2	
0.0000000	J T	631,MP.02.GM	Field Conditi	000				Date	5/2	107	
T ICIC	ı ream 1		riela Coriali	oris				Page _	of of	1 )	
Well/Sai	mple Numbe	r Park Moabi-1	25		QC Sa	ample ID NA	V			QC Sam	ple Time
Purge Sta	art Time				Purge	e Method		Ded. P	ump		Control of the Contro
	Flow Cell: Y	)/ N		Mir	n. Purge Volume				(gpm)/(mLp	m)	
		1			T				1	1	
Water Level	Time	Vol. Purged gallons / liters	pН	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
	1125		8.09	287		3.03	30.5	0.1	1.7	14	
	i i										
							***************************************				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
		1									
		-									
		-									
											1
Parameter S	tabilization Cr	iteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters	Stablize prior to s	sampling?					NA				
Previous Field n		(10/4/2006)	7.74	1630	10.2		30.03	0.08		69	
	ents consistent wit	h previous?					NA				
Sample Time Comments:	1150	Sample Location	n: pun	np tubing	well port	spigot		bailer	other		
						***************************************					
5%	Water (ft BTO				Measure	e Point: Well	TOC Stee	el Casing	WATE	R LEVEL ME	TER SERIAL NUMBER:
		of Well Depth (ft bi								If 7	Fransducer
		ase) ft btoc (25				/ Before Remov			n After Reins		Time of Removal
		) = WD-Initial Dept		in\	Time	Initial DTW		Time	Fina	al DTW	Time of Reinstallation
		"= 0.17, 4"= 0.66,	1"=0.041 <sup>(8</sup>	in)		L					
1970		1			Comments:						
Three Casing \					(				1	1	
Color: clear/ q	rev. vellow, bro	wn. black, cloudy.	areen		Odor none s	ulphur organic	other		Solide Trac	un Ismall ou	Med Ou Large Ou Particulate Silt Sand

Page 50 of 50

Topock Sampling Log

Project Name PGE Topock GMP Job Number 345631.MP.02.GM		and the second s	Samplin	Date	2007-GMI	P-125-Q2	
Field Team 1 Field	I Conditions	and the second		Page	of		
Well/Sample Number PM4-125		QC Sample ID	NA			QC Sample	Time
Purge Start Time		Purge Method		Ded. Pur	mp		
Flow Cell: Y / (N)	Min. F	urge Volume (gal)/(L)	Р	urge Rate (g	pm)/(mLpm)	)	
THOW SCIII. 1 / 10		· · · · · · · · · · · · · · · · · · ·					
Water Time Vol. Purged gallons / liters	pH Conductivity mS/cm	Turbidity Diss. C		Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
1140 8	.32 2.09	65 4.	12 30.3	0.1	1.3	89	
			S per	has	> ho	- Use	
				throl	rgh	cell	
	units	+/- 10% NTU +/- units mg	32	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			NA				
Previous Field measurement ()							
Are measurements consistent with previous?			NA				
Sample Time Sample Location:  Comments:	pump tubing	well port	spigot	bailer	_ other _		
Initial Depth to Water (ft BTOC):		Measure Point:	Well TOC Ste	eel Casing	WATER	LEVEL METE	ER SERIAL NUMBER:
Field measured confirmation of Well Depth (ft btoc ):						If Tr	ansducer
WD (Well Depth - from database) ft btoc		Initial DTW / Before		pprox. 5 min			ime of Removal
SWH (Standing Water Height) = WD-Initial Depth		Time Init	ial DTW	Time	Fina	I DTW	ime of Reinstallation
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0	.041				<u></u>		
One Casing Volume = D*SWH		Comments:					
Three Casing Volumes =		Odor none sulphur.			alida. Ta	e Cmall Oct 1	Med Qu, Large Qu, Particulate, Silt, Sand

Page 1 of 50

965575



(Received)

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

Name

Agency

## CHAIN OF CUSTODY RECORD [2007-GMP-125-Q2]

COC Number

TURNAROUND TIME

DATE 4/30/67

PAGE 1 OF

<u> </u>					#2		9								0.0								-	
COMPANY	E2						7	7	$\overline{}$	7	7	7	7	7	7	7	7	/	7	7	7	7		
PROJECT NAME	PG&E Topock											/			/	/.5	:/:				//	CC	OMMENTS	;
PHONE	(530) 229-3303	3	FAX (530	) 339-3303		,	/ ,	/ ,	Specific Co.7 Field Fillera	mim		/      /	/ ,	/ ,	/	Illered Chromium				//	' /	139		
ADDRESS	155 Grand Ave	COMMENTAL COLUMN					/			\$ /			/	/	/	200		/	/ /	W. F.	55			
	Oakland, CA 9					/0	0	/_	Filtere	20.1	7		18	2/2	7 /4			/		10				
P.O. NUMBER	345631.MP.02.	GM	TEAM	. 1		CR6 (71% Lab Fillered	CR6 (7190) Lab Fillered	illere	Specific Co.7 Field Filler	1) 82		/	Total Orm	Du (4	3) Fie	/		/		PEROF CONTAIN	Rec'd		30/07	
F.O. NOMBER	343031.MF.02.	<u>GW</u>	ILA	" <u>-</u>	/	199	Lab	Lab /	1000	ructa,	1	/ /	Brc	5	2010	/ /	' /	/ /		E L	ab.#	96	557	5
SAMPLERS (SIGNA	ATURE	<u></u>	ــــــــــــــــــــــــــــــــــــــ		1 /3	6/8	8 8	100	8 / 5		10S (160	13/2	3/8			/				A.				
and the second control of the second	0	1000 nat \$1000 n 1000 no.	_		86/2	100	198	tal NA	Pecific	1(15(	100	Nons	14/0	SSM		/			3	?/				
SAMPLE I.D.	-	DATE 1	TIME	DESCRIPTION	0	0		12	100	à	/ 12	4	120	0	_	_		/_	1.8	<u>                                     </u>				_
004	8	12:29	4/30/07	6W			Х		X	$\times$	50			X				_ •	4	-				
C13-096		11:45	436	GW.		2	$ \lambda $	-	X	X	50			X					4	-				
			1																					
							$\neg$								* 1									-
			ALE	<del>RT!!</del>	Н					P				-				-		<u> </u>		-		
- 0			1 8	TTY OO		$\dashv$			1.0				-	-	Witness .									
	01	Le	vel	III QU						P	or	Sa	mn	10	0	201	£ !					200		
	-42	<b>/</b>			1				1		Sa	ei			a	7 66	tio						a <sup>ff</sup>	
											-	- 1	1.0	11	111	aci	ec					-		
	*	l ,	L									and methods	-	*****	-	COLUMN TO STREET, ST. LEWIS CO.	The same of the sa	ve u	1	-				
	C	HAIN OF	CUSTO	DY SIGNATUR	E RE	CO	RD				-					-			AMDI E	COND	ITIONS			
Signature	0 A	Printed		Company/					Date	1 4	/3 6	107	_		ECEI	/ED	C/	00L					°F	
(Relinquished) Signature	and the	Printed	1 1	Company/	1		11		Tim	e e/ <i>f</i> .	15.7	2.3		, r	ECEI	VED	C	JUL	Ц	VVA	ARM [	' _	-	_
(Received)	JWL	Name	Jushe	m i Agency	7	L.	_		Tim	e 4/	10/	07	21:0	, c	USTO	DY S	EALE	D	YES	3 🗆	NO			
Signature ( (Relinquished)		Printed Name		Company/ Agency	3	e 12			Date	3/		¥.		-	CIAL R	REQUI	REMEN	NTS:			19			
Signature (Received)		Printed Name		Company/					Date	9/		1												
Signature	- <u> </u>	Printed		Agency Company/					Time						24									
(Relinquished)		Name		Agency	8				Time	е	; 									92				
Signature		Printed		Company/		102			Date	2/				1										

Time

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

#### CHAIN OF CUSTODY RECORD [2007-CIS-002]

COC Number

TURNAROUND TIME	12	Days	
DATE 4/30107	PAGE	( OF	T

COMPANY	E2						$\overline{}$	7	7		7	7	7	7	7	Ι,	7	77	7	//	CON	MENTS
PROJECT NAME	PG&E Topock	GWM						1:		/*	~/		/	//	/ /		/		//	/ /	COI	uncitto.
PHONE	(530) 229-3303	3	FAX (530	0) 339-3303		/	/ ,	20	/ ,	80/08	//	_/	, /	/ /						. /		
ADDRESS	155 Grand Ave	Ste 1000	_			_		/ري		9	1.00	450.2				/ ,	/ /	/ /	WER .			
	Oakland, CA 94	4612	_	e e		12.	15	8/2	s/ 4		3/_	5/		/ /	/ /				N XX	/		
P.O. NUMBER	345631.MP.02.	.CI	Λ			35%		$\sim$	1	1/.×	/ق. لا	7 /	/	/ /				Ι,	100			
SAMPLERS (SIGNA	TURE	Bui	tu		1/3	\$/.	S. Solved	14/4	1000 M	A Calinit	imonia				/ /	/ /	/ /		SWIBER OF CONTAINERS			
SAMPLE I.D.	0	DATE	тіме	DESCRIPTION	1/4/2	10	3/4		3/8	7	ξ/	/ /	/	/ /								
CLS-C	nu	DATE	12:29	GW	V		V	V		X		f	-	+	+	+	+	<del>/                                    </del>	1			
2 (15-0	<del></del>	4/30/07	+		X	V	X	\(	$\Diamond$	X			-	+	+	+	+-	$\vdash$	1			
- (1)-0	10	4/30/01	11:45	4W		$\triangle$	4	$\triangle$	$^{\wedge}$	/\		$\vdash$	-	$\dashv$	+	+	+	$\vdash$	-			
													-	+	+	+	+	$\vdash$				
					$\vdash$	$\vdash$					-	$\vdash$	-	+	+	+	+	$\vdash$	$\vdash$			
						$\vdash$							+	+	+	十	+	f		-		
			-			$\vdash$							$\dashv$	$\dashv$	+	+	+	$\vdash$	<del>                                     </del>			
													+	$\dashv$	+	+	+	$\vdash$	<del>                                     </del>			
												$\dashv$	$\dashv$	$\dashv$	+	+	+	t	<b></b> -			
	C	HAIN OF	CUSTO	DY SIGNATUR	E RI	ECO	RD											AMPL	E CONDI	TIONS	m T-	300
Signature	R +	Printed		Company/						te/ 4/	1301	107		REC	EIVED	, (	COOL			RM 🔲	Ø.T	30°C 32°F
(Relinquished) Signature	ALIA	Printed )	ny Bya	Company/			. 1	C.	Tim Dat	ie/ S	524	07										
(Received)	KITA	Name Printed		Company/		W	113	_	Tim	te/	9		,		TODY			YE	s 🗖	NO	<u> </u>	
(Relinquished)	XHIN	Printed A	all the	Gompany/ Gompany/	{	= 4	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	<b>L</b>	Tim Dat		51-	ST.	5	SPECIA				Cr. F	E, K,	My	nn m	,
(Received) Signature	He	Name Printed	thory	Company/		CVV	IPO	1	Tim	ie .	13	47							en, Pb,			ā
(Relinquished)	/	Name		Agency					Tim	ie						, ,	- 1	,	, ,			
Signature (Received)		Printed Name		Company/ Agency					Dat Tim													

ъ 5

965577

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

#### CHAIN OF CUSTODY RECORD [2007-GMP-125-Q2]

COC	Number

		ND TIME	10	Days	
DATE	4	130/07	PAGE	OF	$\Box$

COMPANY	E2						1	/	/	1	-/	-/		-/-		/		. /		//	7	COMMENTS
PROJECTNAME	PG&E Topock							/	/	/_	/	/		/	Ι.	lium,	/	/		//		COMMENTS
PHONE	(530) 229-3303		FAX (530	339-3303			1	/ /		Tomium	/ /	Ι,	/ /	/ /	/ /	5	/ /	1	Ι,	/ /	/	
ADDRESS	155 Grand Ave Oakland, CA 94		_			Pag	) Ped	Total Molas (200 Fill eled	d Fillured C	(12011)		/	N, NO.	Diss Melly (Carbon (415.2)	ielo Fillered	3/	/	/		SER OF CONTAINERS		
P.O. NUMBER	345631.MP.02.0	GM_	TEAM	1	/	4 Fills	# E	S Fille	V.7) Field	clance /	/ /	/ /	1,0,5	la l	708)	1	/ /	/	/ /	\\[ \sqrt{\delta} \]		
SAMPLERS (SIGNA	TURE	tun	<u>.                                    </u>	2	28.5	CR6 (7186A) 1	18/1	Total Metals (2000)	Specific Cond. Pleid Fillured	1507	108/1801	8 200	100	Diss Mebis Carbon (415.2)		/	/	/	Mag	O J		
SAMPLE I.D.		DATE	TIME	DESCRIPTION	8	/ŝ/	ŝ	100	\$ /	Ha	/ <u>&amp;</u>	15	10	880	$\perp$	1		_	12		16	
MW-047	3~C75745	4/30/0	10:05	6W		· ·	X		$\times 1$	$\times$				X					3		1	
मधार- हुन्छ	: {?	4/30/07	11:13	ign'			۲.,		X	X				X					3		<i>/</i>	^
(15-00		4/36/67	1	4Ni					X	$\times$									F	- 1	nV	122
CIS-L'	}{;	4/30/07	1	GW			-		X	X						-			1		ĵ'	-
11,11,-34	030-125	4/30/07		(1W			XI		X	X	X	X		XI					3	السيا		
EB-125-		4/30/07	1510	EB			X											ŀ				
							Î															

	CHAIN OF CUSTODY S	IGNATURE RECORD		SAMPLE CONDITIONS
Signature (Relinquished) B.	Printed Name Lenny Bradton	Company/ xetAgency CH2MH:11	Date/ 4/30/07 Time 1520	RECEIVED COOL WARM WARM
Signature (Received)	Printed //95 hem;	Company/ T. L. I	Date/4, 33/01 Time 7/20	CUSTODY SEALED YES NO NO
Signature	Printed	Company/	Date/	SPECIAL REQUIREMENTS:
(Relinquished)	Name	Agency	Time	
Signature	Printed	Company/	Date/	· ·
(Received)	Name	Agency	Time	
Signature	Printed	Company/	Date/	1
(Relinquished)	Name	Agency	Time	
Signature	Printed	Company/	Date/	
(Received)	Name	Agency	Time	

C#1-408 -

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

## CHAIN OF CUSTODY RECORD [2007-GMP-125-Q2]

OTFOIL

COC Number

TURNAROUND TIME	12	Days	
DATE 4/30/07	PAGE	1 OF	

	COMPANY	E2						/		/	/	/ 0	9	Mo	8			/	/	/	/	/ /	co	MMENTS	3
	PROJECT NAME	PG&E Topock	GWM					/	/	/	/	9.4.1	/2	33,03	/	/ ,	/	/	/		//	/ /		9	
	PHONE	(530) 229-3303	3	fax <u>(530</u>	) 339-3303		/	/ /	/ /	/ /	/ /	Diss Melse Camark, Na B	Diss Metals 72.	Jille /			/	/ /	/ /	/ /	/ /	, /			
	ADDRESS	155 Grand Ave	Ste 1000									life.	llered	B / B	8				/		NER				
	,	Oakland, CA 9	4612							/_	ield F	ield F	ield F	ield F	/ .	/ .		/			NE N	/			
	P.O. NUMBER	345631.MP.02	.GM				/_/	15)	TPH-Diesel (2)	18015	108/1	108/	Diss Meals (7.1)	1/20/	_/	~ /	/	/ /	/ /	/ /	SER OF CONTAINERS				
	CAMPIERS (SICNA	TURE 0 1			900000 0000 000	VOCS (826.2	TPH-998 (Ci.	SVOCS (8272		NS / 3	09/	8 60	09 2	Alkalinity (310	Ammonia (350	Sulfide (376.2)			/		000				
	SAMPLERS (SIGNA	TORE	m	<u> </u>		182	1988	3	1Dies	Meta	Mes	S Meta	S Meta	Hinity	monia	fide (3				Mak					
	SAMPLE I.D.	V	DATE	ПМЕ	DESCRIPTION	18	/E	13	/E/	18	NO.	18	80	* /	4 /	38	-/			$\frac{1}{2}$					
3	mw-34-	080-125	4/30/07	14:41	GW					•	室	X	X	X	_	_	_			2					
		2							-							_									
														7											
									$\neg$					$\neg$	$\neg$	$\dashv$	$\neg$					7.3			
						$\vdash$		$\dashv$					$\neg$	$\dashv$	$\dashv$	$\dashv$									
			CHAIN OF	CUSTO	DY SIGNATUR	RF R	FCO	RD.	was constant										SA	MPLE	CONDI	TIONS			
	Signature 0		Printed		Company	1 -				Dat	te/ 4	130	107		RE	CEIV	ED	CC	OOL			RM 🗆		°F	F
	(Relinquished)	Burtu	Name e r	nny Bra	CHMUCIAGENCY I Company		2MH	<u> </u>	- Carrier	Tim	e/ S	752	37							(1 <del>1-11-1</del> )					_
	(Received)	myten	Name	21/1	Agency Company	2	- N	10	X	Tim		90 521.6		-	CL	JSTOI	DY SE	EALE	D	YES	3 🗆	NO [			
	Signature (Relinquished)	PHA	Printed Name	ril He	a touch Agency		EU	(A	×	Tim	ne	13	4	5	SPEC	IAL RE	QUIR	EMEN	ITS:						
	Signature (Received)	lie	Printed Name	SHIM	Company Aglency		tn	1/1		Dat Tim	ne 3	157	EL												
	Signature (Relinquished)	7	Printed Name	7	Company Agency	1				Dat Tim															
	Signature (Received)		Printed Name		Company Agency	1				Dat Tim							LF								
	(1,0001400)																								

10 Days

0 9



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

#### CHAIN OF CUSTODY RECORD [2007\_GMP\_426\_02]

COC Number

	1)730-6239 FAX: (71	4) 730-6462				[20	07-G	MP-	125-0	Q2]								AROUN			0 Da	-30/2	
www	w.truesdail.com				5 <b>4</b>												DATE	तीक	707	PAG	E	OF _	_
COMPANY	E2						7	7	7	$\neg$	7	$\neg$	7	$\neg$	1	7	7	7	11	17			_
PROJECT NAME	PG&E Topock								/							lum/	Ι,	/ /	//	/ /	COI	MMENTS	
PHONE	(530) 229-3303	3	fax <u>(</u> 53(	) 339-3303		,	/ /	Ι,	Specific C.	romium	Ι,	/ ,	/ )	/ /	S (60) 09) Feet Files	5	/		/ /.	/			
ADDRESS	155 Grand Ave									8/2	./			3/5	No.	8/		//	CONTAINERS	7			
	Oakland, CA 9	4612				/pag	le red	8	IN PILE	18			8	1475	Die P	Ι,	/ /	/ /	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
P.O. NUMBER	345631.MP.02	.GM	1 AFA	1		35 FE	Lab Fil	36 FI	POT FE	Ciana /	/	/ /	10,0	100	188/				18/				
SAMPLERS (SIGI	NATURE	siel	VIK			9 / 8	हैं ह	8/1	\$ \S				3/	Jane C				//	8				
SAMPLE I.D.		DATE	TIME	DESCRIPTION	386	CR6 (7100) Lab Fillered	CR6 (7100) Lab Fillered	Total Abrasil Lab Fill Gred	Specific C.	14/15/	108/160	Mons	Tobl Co. 81.01.504, NO.	ISS Me	/ /	/ /	/ /						
	020-125	4/50/07		- ·			X		X	X	X	X		Ž		1	1	3	1	.p21	<u> </u>		
		, ,	1				x		x	$\lambda$	λ	X		X	7	一	$\top$	13	<del> </del>	DN			_
nn w - 51		1/50/07		Gw	1	X	-		-X	X	~		-	X	7	7	十	13	0	- 12*			
	-200-125	413007		QIN		X			X	X				V		$\exists$	Ť		15	pri	=1	,	_
																*							
																Ì							
		SLIAIN OF	CUCTO	DV CIONATI "	OF 51		DD.																_
Signature	Simology			DY SIGNATUS	17	-		1	Date	el 4	131	10	7						E CONDIT	IONS		-	
(Relinquished)	24 refer	Name 5	ODIN	Company Agency	14	on	14	41	C Tim	e /		30	,	R	CEIVE	Đ	COO	ւ 🖸	WAS	RM 🔲		°F_	

	CHAIN OF CUST	ODY SIGNATURE R		- a	S.A	MPLE CONDI	TIONS	
Signature (Relinquished U. J.	AK Printed Bab T	Companyi Companyi	12M Ufic Time	4/30/07	RECEIVED COOL	D WA	RM 🗆	°F_
Signature (Received) L. Muleus	Printed & Sua	Company! C	701 Date/ Time	4/20102	CUSTODY SEALED	YES 🗍	№ □	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	2100	SPECIAL REQUIREMENTS:			
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		F.			
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time					
Signature (Received)	Printed Name	Company/ Agency	Date/ Time					

## Cit ofos-

EMAX Laboratories, Inc. 1835 W. 205th Street, Torrance, CA 90501

# CHAIN OF CUSTODY RECORD

COC Number

183	5 W. 205th Street, Tor	rrance, CA 90	501		, IAII4									TUR	NAROL	JND TIME		12	Days
Tel: Joe	: (310) 618 8889 Ext. 1 : Kelbley jkelbley@em	19 Fax: (310) axlabs.com	618 0818		i.	2007-0	SIVIP-	125-0	-					DAT	EY	3010	)P	AGE_	OF
											, ,	/	7	, , , ,	-//			7	
COMPANY	E2					/	/		/	8,8	/ /;	18 X	/ /			/ /		/ (	COMMENTS
PROJECT NAME	PG&E Topock	GWM							/ /	Diss Melals (60108) Field Fillered Tille 2	Alkalinik CATOA) Field Fillered Title 22, Ca A.		/ /		/ ,	/ /	//		
PHONE	(530) 229-3303		FAX (530	)) 339-3303			/ /	/ /	/ /3		July Dille	D /	/- ,	/ /	/ /	///	25/		
ADDRESS	155 Grand Ave					/ /			Filler	Filler	Filler		/ /	. /		/ /	THE PARTY OF THE P		
	Oakland, CA 94	1012	-		/	/		18	Field	Field	Field	/ /			/ /				
P.O. NUMBER	345631.MP.02.	GM O	20		624)	SVOC. (SW8015)	TPH-Diesel	SW801	6010B)	Diss Melals (60/08) Field Fillered Title 2	74704	0.7)		/ /		NUMBER OF CONTAIL			
SAMPLERS (SIG	NATURE EU	ref	Rh		(82608)	NS) SE	(82) Jesel	letale,	letals (	fetals (	fetals (	15 Sil	9/8/8			BER			
SAMPLE I.D.		DATE	TIME	DESCRIPTION	VOCs (82608/624)	SVOC.	PHO	Diss A.	Diss A.	Diss A	Alkaliniv C	Ammonia (350.2)	Sulfide (376.2)			NEW		- 22-22-2	
	-020-125		1235	GW			4×	Χ	X		X					2			
32.	-020-125 035-125	4/30/07		GW			Pu	X	X		X				1	2			
1400		11 21/01												$\Box$					
							$\vdash$		$\neg$	$\top$	+			$\vdash$	$\neg$			1	
					-	+-	$\vdash$	-	-	+	+-		-	+	-				
									_				-		_				
				9		1.0													
	ю 1																		
							$\Box$												
						+	$\vdash$	$\neg$	$\dashv$	$\dashv$	+		-	$\Box$	$\top$	_	Angelin et et e		
	$\triangle \triangle a$	HAIN OF	CUSTO	DY SIGNATUR	RE REC	ORD					/			<u> </u>	SAN	APLE CON	IDITIONS	0	7-3-0
Signature (Relinquished)	Zinalla	Printed B	obin	Company	$\sim$	>/u (	Hell	- Dat Tim		30/	07	REC	CEIVED	CC	OOL [		VARM [	5 -	7-3:2F
Signature (Received)	1 Die	Printed Name	MIL	Company	EN	1A×	:	Dat		100	7	cus	STODY :	SEALE	D .	YES	NC		
Signature (Relinquished)	MILE	Printed Name	ul He	Company	E	MA	1	Dat Tim	e/ <b>5</b>	10	45	SPECIA	AL REQU	IREMEN	ITS:				
Signature (Received)	her	Printed Name	THON	TOWN Company	F	MA	1	Dat Tim	e/ <b>5</b>	3.4									
Signature (Relinquished)	1	Printed Name		Company Agency				Date Tim										(f)	
Signature (Received)	,	Printed Name	22	Company Agency				Date Tim											70

#### Kumar, Priya/BAO

From:

Duffy, Shawn/RDD

Sent:

Tuesday, May 08, 2007 10:19 AM

To:

Ringier, Matt/BAO; Kumar, Priya/BAO

Subject:

FW: Log in for Topock, SDG 07E011

Attachments: 07E011.pdf

From: Molly Nguyen [mailto:MNguyen@emaxlabs.com]

Sent: Monday, May 07, 2007 6:18 PM

**To:** Duffy, Shawn/RDD **Cc:** Electronic Data/RDD

Subject: Log in for Topock, SDG 07E011

Hi Shawn,

Per our conversation, samples MW-32-020-125 & MW-32-035-125 will be analyzed for Dissolved Cations (B, Ca, Mg, K, Na) instead of Diss. Title 22 + 5 Cations as marked on the COC.

E)MAY 1 2007 10:17/ST.10:1	E)MAY 1 2007 10:17/ST.10:14/No.680	E)MAY 1 2007 10:17/ST.10:14/No.6800	E)MAY 1 2007 10:17/ST.10:14/No.680000	)MAY 1 2007 10:17/ST.10:14/No.68000009
MAY 1 2007 10:17/ST.10:1	MAY 1 2007 10:17/ST.10:14/No.680	MAY 1 2007 10:17/ST.10:14/No.6800	MAY 1 2007 10:17/ST.10:14/No.680000	MAY 1 2007 10:17/ST.10:14/No.68000009
1 2007 10:17/ST.10:1	1 2007 10:17/ST.10:14/No.680	1 2007 10:17/ST.10:14/No.6800	1 2007 10:17/ST.10:14/No.680000	1 2007 10:17/ST.10:14/No.68000009
007 10:17/ST.10:1	007 10:17/ST.10:14/No.680	007 10:17/ST.10:14/No.6800	007 10:17/ST.10:14/No.680000	007 10:17/ST.10:14/No.68000009
:17/ST.10:1	:17/ST.10:14/No.680	:17/ST.10:14/No.6800	:17/ST.10:14/No.680000	:17/ST.10:14/No.68000009
17/ST. 10:1	17/ST.10:14/No.680	17/ST.10:14/No.6800	17/ST.10:14/No.680000	17/ST.10:14/No.68000009
/ST. 10:1	/ST.10:14/No.680	/ST. 10:14/No. 6800	/ST. 10:14/No. 680000	/ST.10:14/No.68000009
0:-	0:14/No.680	0:14/No.6800	0:14/No.680000	0:14/No.68000009
	4/No. 680	4/No. 6800	4/No. 680000	4/No. 68000009
	/No. 680	/No. 6800	/No. 680000	/No. 68000009
	680	6800	680000	68000009
0		8	0000	000009
o. 6		2	8	0009
0.68000009	09	9		60

 $\infty$ 

14201	SDAIL LABORATO. I Franklin Avenue, 730-6239 FAX: (714 truesdail.com	Tustin, CA 92	780-7008		СНА			UST 7-CIS			COF	RD	N	55	5,	10	Tu		OUN	D TIME 0 / 6 7	PA	10 Da	oys OF	1
COMPANY	E2						7	7	7					1	7			1	,	7	1			
PROJECT NAME	PG&E Topock							/			/		1		/					/	/ /	co	MMENTS	\$
PHONE	(530) 229-3303	1	EAV /531	0) 339-3303			/		/	/	/	/	1.			F:	,	′	1	//	' /			
S recognic most discount in State			FAX (33)	0) 339-3303		1	/ /	/ /	/ /	/ /	/ /	/ /	1-	lec'a	A Parent	14/3				/ /s	0			
ADDRESS	155 Grand Ave		_					/3	-/	-/		§/.	⊘' ∵La	<b>b.</b> #	9	65	5	÷						
	Oakland, CA 94	4612				Pala	/8	1/3			18	1/2	1		1	/	/	/		B	/			
P.O. NUMBER	354631.MP.02.	C1.00	TEA	M <u>1</u>		18 F	PA	iance	/ /	Ι,	12	100	/	Ι.	/	1	/		/	18/				
SAMPLERS (SIGNA	TURE OB	£	ā .		1/	CR6 (700) Lab Fillerad	Specific Cab Fillered	PH (150 11)	1	~ /.	TOBIC CLF! SQL	Janie Carbon (415				/	/	/ /	1	WIBER OF CONTAINERS				
	70-	<u> </u>	<u>/U</u>		1/8	1/8		3 8			2/3	\$ /		1	/		/		1	19 E	1.0			
SAMPLE I.D.		DATE	TIME	DESCRIPTION	/કું	/8	18	Ha	105/160	A So	10g	/	/	/	/	/	/	/	13					
C15-0	o4	4/30/07	12:29	GW					X	X	X								5					
(1.5-0	ctic.	4/36/07		G) (U					Х	V	ĺχ					_		一	5			05.00		_
	, ,	1, 10,07	11.13	07.00		<u> </u>			/ \		[/]	<del>                                     </del>	<u> </u>			_	<u> </u>							
				1	-		_				<u> </u>				<u> </u>		ļ			<u> </u>				
		4.			<u> </u>																			
		一一八二		1 1						٠. ا	<i>^</i>	· A		j 11										
	manu-	(4).70]	717	13.0					10.5			, ,		£.21	1	:	.77	İ		i				
	£,			Ψ'-	<del>                                     </del>					1,2	.,; ·	1 :	111	30.5	1 ; ; :	: ';	Q.		_	I			-	$\dashv$
<b></b>					+							_		* 1.72										
				L		نـــا		L																
		HAIN OF	CLICTO	DY SIGNATUR	or D	F00	DD.					_												
Signature O		Printed	50310	Company		ECU	KU		Dal	or 4	13 8	107		-				SA	MPL	E ÇONDI	SNOIT		•	1
(Relinquished)	Bunton	NameLa	y Bra			NH	:11		Tim	e	152	3		R	ECEI	/ED	C	OOL		WAR	RM 🗆		°F	_
	V.		lashe	Company Agency Company Company	t.	L.	١		Dat Tim	e/ (/ <sub>/</sub> , e	3=1	7	21:0	c	USTO	DYS	EALE	D	YES	s 🗇	. NO	П		
Signature (Relinquisted)		Printed Name		Company Agency	1				Da1 Tim				-	-	CIAL R									$\dashv$
Signature		Printed	•	Company	1				Dat	e/			-	1										1
(Received) Signature		Name Printed		Agency Company	,				Tim					-			Ł							
(Relinquished)		Name		Agency					Tim	e ·		16			•	•	<del>-</del>							
Signature (Received)		Printed Name		Company: Agency					Date															

 $\omega$ 

965629

-
13
r
L.,

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

#### CHAIN OF CUSTODY RECORD [2007-GMP-125-Q2]

COC Number				
TURNAROUND TIME	10	Days	9.00	
DATE FILAZ	PAGE	1	OF	_

WWW	truesdall.com															i							
COMPANY	E2						7	7	7	7	7	7	7	7	7	7	$\neg$		7	7	$\mathcal{I}$	7 .	OMMENTS
PROJECT NAME	PG&E Topock	<u> </u>					/	/ ,		/_		/ /	/	/	POOTOB) Flow Fig.	/ Land	1			/	/ /		
PHONE	(530) 229-330	3	FAX (530	) 339-3303				TOWN WHILE COLO.		nomin	/ /	/ /	/	/ /	/ /	5	/ ,	/	Ι,	/-/	0		
ADDRESS	155 Grand Av	e Ste 1000					/		1	/;	•/		/8	/ / 8		8/		1	-/				
	Oakland, CA 9	34612		100		CR6 (71954) Lab Fillsted	CRS (7198) 1	8	Specific Con.	180	/	Antoins (300), 8-5	8	Diss Meets Carbon (415.7)	The second	/			/	SER OF CONTAINE	1. P	li 19	
P.O. NUMBER	345631.MP.02	2.GM	TEAN	1 <u>1</u>	/	8	14		" / E	San Cal	/ /		, o.	8/	8		Ι,	/	/ /	[3]	,,		
SAMPLERS (SIGNA	ATURE Mutt	Pin			/ [	7 6	8	3/8		/=	-/		1			1	-/	1		$\hat{z}$	Md	-7	- 7
					88	86 (7)	8	A SE	Becific	1/150	108/160	Sugar	10/0	SS AB	/	/	/	/	13		, ,	1	/
SAMPLE I.D.	APR-01	DATE	TIME	DESCRIPTION	0	10/	8/	~ /	5	N V	/=	\ <del>\\</del>	~/	9	4		$\leftarrow$	<del></del>	/ >	<u> </u>		0.11	
MU-27-	085,125	5/1/07	823	6W			X		X]	Дļ			_	Χļ	_				3	<u> </u>			2
Mw- 42-	065-125	5/1/07	1015				X		X	X				X					3			PH 2	!
MW. 42-		5/1/07	162	4			X		$\mathbb{X}$	Ϋ́				X					3			op z	
EB-125.5		5/1/07	1324	FB			X															PA;	Z
MW-36-0	70-125	5/1/07	1255	6W		Î	ΥI		χĺ	X				$\chi$					1	3 3 8		PH	2
71100 30 3	70 1 3						1	-	Ī							1							
							T						T	7									3357/11/73/12
		<del>†</del>				1	十	1		i			寸	T	寸	T							
	•	J														$\dagger$							
	(	CHAIN OF	CUSTO	DY SIGNATUR	E RE	COF	₹D		-							ľ		S	AMPLE	COND	ITIONS	,	
Signature (Relinquished)	Muli	Printed Name	natt Bi	Company/	87	2.			Date Time	1 14 5	9/6	7		RE	CEIV	ΕĐ	C	OOL		W	RM 🗆		°F
Signature (Received) Mov	rion Bowles	Printed Name MA	Rian Bo	Company/	×Εσ	Mid	٤		Date Time	23	-1- 30 F	07 M	•	CL	JSTOI	DY S	EALE	D	YES	<b>=</b>	· NO		
Signature (Relinquished)		Printed Name		Company! Agency					Date Time					SPEC	IAL RE	QUIR	EMEN	ITS:					
Cincobuse /	Malun	Printed Name of	Ma	Company/	7	U			Dale Time			107				:							
Signature (Relinguished)		Printed Name		Company/ Agency					Date		-	0010	20					•					
Signature (Received)		Printed Name		Company/ Agency					Date														

965620

	^
_	·
	لرسيال
-	

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

# CHAIN OF CUSTODY RECORD [2007-GMP-125-Q2]

COLIN	unit	)ÇI				
TURNA	ROL	JNO TIME	10	Days	•	•0
DATE	-	11/67	PAGE	t	OF	1

~							,		_	Rec	ď	05/	01/07	_					
COMPANY	E2					/	- /	/-	/	Lab.	#9	65	620	ı /			//	/ c	OMMENTS
PROJECT NAME	PG&E Topock				1			/ /	_ /	1 1	/	/				/	///	/	
PHONE	(530) 229-330	3	FAX (530	339-3303			/ /	Mont	/	/ /		/	Chiese	7.	Ι,	/ /	101		*
ADDRESS	155 Grand Ave				-	[ ],		Specific Conductano	(4)	Ambris (300) R.C.	/Ş	18	Touring) Field Fillered C	' /			S OF CONTAINERS		
	Oakland, CA 9	4012		2.	1 /	Page A	100	E	<u> </u>	//	8	30 (4)			/	Ι,	8		
P.O. NUMBER	345631.MP.02		TEAM		/:	8 3	1 gg / gg	Lete /	//			3/3	8/	/ /	/ /	/ /	ž/	50	
SAMPLERS (SIGN	TURE Auson	all. 7	Sinck	ley	CR6 (218.6)	CRE (71864) Lab Fillera	Town Marias (200	Specific Conductation	108/1021)	(1) (0) (1) (1) (1) (1)	Sall Sall	Diss Mebis (c. Carbon (415.2)	//			18			
SAMPLE I.D.		DATE	TIME	DESCRIPTION	18	8 8	100	Jag /	10S/100	Anon	10kg/	188	/ /	/		1	/		
MW-48	-125	5/1/200	1 14-	GW		X		XIX				X				3	PA	2	
MW-21		5/1/07	7:25	aW		X		XIX		Ħ		χĺ		Π		3	PH	2	
MW-51-		5/1/07	1209	6W		ΧĺΧ	1	Υİ	/		7	7		T		3		12	
71102-31-	103	7707	2-7	<u> </u>		4		*	1		T	1							
		i			11						T	T							
-		1		·	11	+			1		7	寸				Ιİ			
								_	†	$\vdash$	十	寸	1	1		H			
<del></del>					1	<del></del>		$\dashv$			十	十	++			9	18		
		<u> </u>																	
	, 0	HAIN OF	CUSTO	DY SIGNATUR	RE RE	CORD				,					SA	MPLE	CONDITIONS	\$	
Signature (Relinquished)	herra Hohi	Printed Name A	uruml	Hindelagency	,	E2	20	Date/ Time	5/1/	67		RE	CEIVED	C	00L	0	WARM [		°F
Signature (Received)	in Boulle	Printed Name Mi	PRIBIN BO	Company WES Agency	EXEC	UTUE		Date/ Time 2	5-1 30	1-07	*	CU	STODY S	SEALE	D	YES			
Signature		Printed		Company	1			Date/			_		<del></del>						

	CHAIN OF COSTODIS	MONATURE RECORD		SAMPLE CONDITIONS
Signature (Relinquished)	ma Mulde Name Aurora M. Hi	Company E2	Date/ 5/1/67	RECEIVED COOL WARM
Signature (Received) Mancon	Bowle Name MARIBN Bowle	S Agency EXECUTUR	Date/ 5-1-07 Time 230 PM	CUSTODY SEALED YES NO
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS:
Signature (Received)	aleunine Name d. Sualeun	Company/ 72/	Date/ \$/\$/07	AL COTO
Signature (Relinquished)	Printed	Company Agency	Date	
Signature (Received)	Printed Name	Company FOI Sample	e Genditions	level III oc
	1	See Form	Attack	111 60

		SDAIL LABORATO				CHA	IN OF C	USTOD	YRE	CORD				COCN	umber			
	(714)7	Franklin Avenue, 30-6239 FAX: (71 Iruesdail.com	Tustin, CA 92 4) 730-6462	780-7008	5654	/	[2007-0	GMP-125	i-Q2]				•	TURNA DATE	FOUNE 5/2		PAGE	Days OF
	COMPANY	E2		JV		T		- 7	//	7	7 /	7.	//	7	//		1-1	COMMENTS '
	PROJECT NAME	PG&E Topock					/	//		//		/ /	LAN LAN LAN LAN LAN LAN LAN LAN LAN LAN	/ /		//	' /	
	PHONE	(530) 229-3303	3	fax <u>(530</u>	339-3303			/ /	Gromium	/ /	//		0	/ /	/ /	/ /2	,/	
	ADDRES\$	155 Grand Ave		<del></del> 5			/ /		Fillered (	//	EQV.	18.2	Filler	//	//	TAINER	Rec'd	05/02/07
	P.O. NUMBER	345631.MP.02		TEAM	1_		Lab Filler	ab Fillion	Chance	/ /	Br.C. 50	Soroge E		//	//	S CON	Lab.#	96565
	SAMPLERS (SIGNA	TURE	U. Hino	kly		100	CR6 (7198A) Lab Fillered CR6 (7198A) Lab Fillered	Total Malak (2007) Faus	PH (150 1)	70S (16Q.1)	TOBI O BOOK NOS	Diss Meels (60108) 2	THE FREE CHEMIN	//	No. No.	SER OF CONTAINERS		
	SAMPLE I.D.		DATE	TIME	DESCRIPTION	/8	/ <i>8</i> /8	18 8	1	K   E	12	8	1:		13	<u> </u>		
-1	MW-36-	090-125	5/2/07	7.38	GW		X		$\langle X  $			X _		_	3			
-2	mw-		9/2/07	6:45	6W		X	X	X			X_			3			
3		- 100-125	5/2/01	8:26	GW		X	<u>       X</u>	X		1	XL.	$\perp$		3			34
Y		-040-125		9:34	4W				$\mathbb{X}$			$\times$ L			3	<u> </u>		
5		090-125			GW			X				X			3			
6		210-125			GW		X	LX	X		Ш	XL	1		3			
7			5/2/07		4W		X	X	<u>IV</u>			X			3			
8	EB-125-		5/2/01	1 1	Water		$ $ $\times$											
			CHAIN OF	CUSTO	DY SIGNATU	RE RI	ECORD					-	<del></del>		SAMPLE	CONDIT	TIONS	

	CHAIN OF CUST	DDY SIGNATURE	RECORD		SAMPLE CONDITIONS
Signature (Refinquished)	U Sheel Printed Augus	. Hinck teancy	EZ	Date/ 5/2/07	RECEIVED COOL WARM F
Signature / M a	Printed C	Obmpany/ Western Agency	TII	Date! 5/2/6 7	CUSTODY SEALED YES NO
Signature (Relinquished)	Printed Name	Company/ Agency		Date/ /4	SPECIAL REQUIREMENTS:
Signature (Received)	Printed Name	Company/ Agency		Date/ Time	
Signature (Relinquished)	Printed Name	Company/ Agency		Date/ Time	
Signature (Received)	Printed Name	Company/ Agency		Date/ Time	

2

10 Days 🕆

COMMENTS

1	14201 (714)7	SDAIL LABORATOI Franklin Avenue, 1 30-6239 FAX: (714 truesdail.com	rustin, CA 92	2780-7008	9656	СНА	N O	F Cl 07-G	JST( MP-	DDY 125-0	REC Q2]	OR	D	•				TUR		er JND TIM		10 PAGE
	COMPANY	E2				T		1	1	7	7	7	$\mathcal{T}$	7	7	7	7	/-	17	//		7
	PROJECTNAME	PG&E Topock						/			/_	/	/	/	/	/	J. S.	12	5/	/ /	/	/
	PHONE	(530) 229-3303	3	FAX (530	339-3303		/	Ι,	/ /	/ /	Omism	/ /	[ ]		/ /	/ /	Chro	南	/ /		101	,
	ADDRESS	155 Grand Ave Oakland, CA 9		_	•		Page	Fred	8	NO FILLENS	PH (1501)		/	8,163	Des Males	Feb Fil	10 to 10 to		//	NUMBER OF CO.	WTAINER	
	P.O. NUMBER	345631.MP.02.	.GM	TEAN	1_	Ι,	8	18/1	10 File	17 P	San /	/	//	00/	100	198	d,	t /	/ /	18	2/	
	SAMPLERS (SIGNA	ATURE	3	<u>t.                                    </u>		80.00	CRB (7100) Lab Fillered	CRG (7100 Lab Fillered	Total Mercal	Beilico	PH (150 1)	TDS (160 1)	Anóns (30), 2	DIA.	Des Males	9		*/	//	UMBERO	/	
Ω.	SAMPLE I.D.		DATÉ	TIME	DESCRIPTION	70	/ <u>G</u>	/3	/~	\sigma_1	8	~	4/	2	(7	्रस्म टि	-	$\leftarrow$	-	3		
9	MW- 19	-125	5/2/0	70752	GW		$\Delta$	_	<u> </u>	$\Delta$		25.2 88.2	M.:	-2	X		_			3		
to	MW-23	5-125		0650				X		X	X	)	_	_	X	4				3		
-11	MW- 50	-095-125	1	0845	<b>V</b>		X			X	X			14.	X	5/20	L			3		
12	EB-125	5-10		1215				X		, 69			,	1	Sec. 1	18				1		
-je	Park Mr	2hi - 125	1	1130	1	X		ľ	X	X	$\times$	:		- 73 - 73		X			3	3-1	*	
ηú	PM4 -	125	1	1145	/	X			X	X	N	X	X	XI	100	1				0		
١ ]	ISEB-1.	25-2	12/0	2:06:09	X	1	i .	×	1*************************************						:#4j		. ;			1		/
ľ		ی جے دے	FIRST		erite if a					10.00		Ī	T		300	300	7.					
•			- e ベンド/- 美物 -	· 12					-	7.3				.3(3)		•						
1								et ec		Dat Tim		12/0			ล	ECE	VED	co	SAM		NDITION WARM	
İ						٠				Dat Tim Dat	ie O	121	91	م	С	USTO	DDY S	EALE	D	YES [	] . N	10 🖺
L				20						Tim			•		SPE	CIAL F	REQUE	REMEN	ITS:			

Date/ Time. Date

Time -

Date/ Time

(THU) MAY w 2007 11:17/ST. 11:16/No. 6800000002 7

°F

1 k

## Cf 10408-

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

#### CHAIN OF CUSTODY RECORD [2007-GMP-125-Q2]

07E061

COC Number

TURNAROUND TIME PAGE

COMPANY	E2			20		/				Diss Metals (60100), Field Fillered Till.	Diss Metals (74704) Field Fillered Title 22	P,Mg,K,						///	COMMENTS
PROJECT NAME	PG&E Topock	GWM ·				- /			/ /	Diss Melals (60105) Field Fillered Tim	2/2							///	
PHONE	(530) 229-3303	3	FAX (530	0) 339-3303		/ /	/ /	/ /	/,	3/2		0	/ /	/ /	/ /	/ ,	/ - /	8	
ADDRESS	155 Grand Ave	e Ste 1000				/ /		/	Here	liftere	lifera	"Here	/			/	/	J. J. J. J. J. J. J. J. J. J. J. J. J. J	
	Oakland, CA 9	4612		26	- /	′ /		/_	rield +	lield /	Pield !	7		/				N X X	
P.O. NUMBER	345631.MP.02	.GM_			/	SVOC SW8015)	/_ /	Diss Metals (20015)	108)	188	180/	/=/	18/	/ ,	/ ,	/	/ /	THE OF CONTRINERS	
SAMPLERS (SIGN	IATURE SI	math	W		08/62	SWS	500/	18/18/	2000	18/60	18/74	(370.	350	62)	- /			0	22
SAMPLERS (SIGN	ATORE XV	vovo.		<u> </u>	VOCs (8260B624)	ses (3	1PH-Dies	Meta	Meta	Meta	Meta Meta	Ammonia 1)	Sulfide (350.2	3/		/	No.		
SAMPLE I.D.		DATE	TIME	DESCRIPTION	\8 \i	1 /3	/E	Oiss	Sig /	80 /	\$ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	A	Sull	_	_	_	13		
PM4-1	25	5/2/07	1145	aroundwater					$\times$		17	X	X				4		
4				J.													,		1
									$\neg$										
						$\top$			$\neg$	$\top$	1								
		-				<b>-</b>	<del>                                     </del>		$\dashv$	$\dashv$	_				T				
-						_			$\dashv$	$\dashv$	+-	-			<del>                                     </del>	$\vdash$			
					$\vdash$	-	-		+	+		-			-	-			
	Ú		-			_	_		-	-	-	_			ļ	-			
									_						<u> </u>	_			
																	4	total	
	(	CHAIN OF	CUSTO	DY SIGNATUR	E REC	CORD								F		S	AMPLE	E CONDITIONS	
Signature	MANGUE	Printed Name A	Laure	Company/ Agency	CH.	2/4	16	Dat Tim		134	正	F	RECEI	VED	С	OOL		WARM	°F
(Relinquished)	A A	Printed		Company/	<b>K</b>	106	2	Date			07	٦,	CUSTO		SEALE	:D	VE	s NO [	1
(Received) Signature	my https	Name Printed	MIT	Company/	12	24		Tim Date		53	<del>2</del> 7_	_						3 [] 140 [	
(Relinquished)	hillen	Name V	hil 5	A (GAgency		MA	<u>X</u> _	Tim		49	33/5	SPE	CIAL	REQUI					
Signature (Received)	1	Printed Name	J-2	Company/ Agency	EM	29x		Tim	e /	13	25	4			7	_=	(	3.0°C	
Signature (Relinquished)	-	Printed		Company/				Date				1			,				
1 (		Name		Agency				Tim	e			_							

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

## CHAIN OF CUSTODY RECORD

[2007-GMP-125-Q2]

0	10	1	0	1		
V	65	6	1	U		
RO			0	7 000	Number :	

TURNAROU		10	Days	'
DATE S	3/07 -	PAGE	L	OF

COMPANY	E2		<del></del>		T		7	7	7	7	7	T	7	7	1	7	7	//	7	COMMENTS
PROJECT NAME	PG&E Topock						/	/	/_	/		//		1	/			11	1	COMMENTS
PHONE	(530) 229-3303	3	FAX (530	) 339-3303			/	/ )	Omina	Ι,	/ ,	/ /		Chromium	/ /	Ι,	Ι,	/ /		
ADDRESS	155 Grand Ave	Ste 1000		•		//	/ /		6/	./		/2	/2/	100				MER.		
	Oakland, CA 9	4612	<del></del>		1,	P /	P / 28	A File	1/2	1		3	F. 15	1		/		N. ZA		
P.O. NUMBER	345631.MP.02	.GM	15	1	/		36 Fills	NO 17 F	Ciency	/ /	/ /	\2 \2 \3	010	/ /	/ /	/ /	/ /	[8]		
SAMPLERS (SIGNA	ATURE	Nie	44		CAB (218.6) 1.	CR6 (11964) Lab Fillered	Town March Lab Filliams	Specific C.	PH (150 1, 000 (120 1,			Total Oganic Cam.	005 Mebis (60108) Field 5		/	/		JER OF CONTAINERS		
	10				8	88		Beck	14(15)	108/160	Non	a la	W Sa	/		/	13	1		
SAMPLE I.D.		DATE	TIME	DESCRIPTION	101	7/0	1	100	2	7	( X		-	-				<del> </del>		
AW-20-	130-125	5/3/07	805	GW		X L	L	IX.	Ľ	χ_	X		<u>(                                    </u>				3			
MW-195	-125	6/3/07	SUS 133	5. 6W		$\chi$		X	X	X	X						3			
		513/07	915	GW		X		X	X	X	X						3			
	+ 100 -125	5/3/07	1030	an		X		X	X	X	X						3			
	10-125	51367	1	aw		X		X	X	X	X						3			
MW-12	2-125	51306		aw		χĹ.		X	X		Ľ						3			
		5/3/07		aw		χĹ		1	χ			Ϋ́					3			
	-030307	F′ ′																		-

CH	AIN OF CUSTODY SK	GNATURE RECORD		SAMPLE CONDITIONS .
Signature (Relinquished) W	Name Bob Tresole	Agency HCM Hell	Date/ 5/ 5/07 Time / 400	RECEIVED COOL WARM 7
Signature (Received)	Printed Name Name Has hem:	Company T. L. J	Date 5,3,07 14.3 o	CUSTODY SEALED YES NO
Signature	Printed	Company/	Date/	SPECIAL REQUIREMENTS:
(Relinquished)	Name	Agency	Time	
Signature	Printed	Company/	Dale/	
(Received)	Name	Agency	Time	
Signature	Printed	Company/	Dale/	
(Relinquished)	Name	Agency	Time	
Signature	Printed	Company/	Date/	
(Received)	Name	Agency	Time	

CH-0408-

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

## CHAIN OF CUSTODY RECORD [2007-GMP-125-Q2]

07±077

COC Number

242

TURNAROUND TIME 12 Days
DATE 5/3/07 PAGE / OF

	COMPANY	E2						/	/			18	/ /.	19. X	/	/		_/	/		/ /	cc	OMMENTS	
	PROJECT NAME	PG&E Topock	GWM						/ /	/	/ /	K.N.	v / 2	7	/					//	/ /	00	DIMINIENTS	
	PHONE	(530) 229-330	3	fax <u>(</u> 530	) 339-3303		/	/ /		/	/	Uss Metals (60108) Field Fillered Title 2	Tile 22.5	/- /	/ /	/ /	/ ,		/ ,					
	ADDRESS	155 Grand Ave	e Ste 1000								tered	lered /	lered /	tered			/	0	3	(K)	?/			
	85	Oakland, CA 9	4612						/ /	/	ield Fil	ield Fil	ield Fi		/	/	/:	P 622	Ň.	A E				
	P.O. NUMBER	345631.MP.02	GM	$\Omega$	A	١.	/B/	(5)	200	6100	180	108)	100/	/_/	( /	/ /	10	2 4	Y (a)	5				
	SAMPLERS (SIGNA	TURE V	111		K	1/.	00862	27/28/28	iel (SV	18 160	18 (60	18 160	18 (74)	(35.0.1	200	3/	12/	3		80				
		-		V-V	V->	VOCS/An	7PH-985 (C.:	SVOCS (8270C)	TPH-Diesel (SWROLL)	s Met	s Met	Diss Metals (60108) Field Fillered Til	Alkalini, (74704) Field Fillered Ti	Ammonia (3£.2	Sulfide (376.2)	/ 8	2000	(A) (A)	N E	THE OF CONTAINERS				
a	SAMPLE I.D.		DATE	TIME	DESCRIPTION	18	12/	3/	R/2	3/	0 /0	3/3	1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	30			<u>/ ^</u>	Ž	<u> </u>				
7	MW-20-13	10-125	5/3/07	805	aw	X		X		$\perp$		$X \mid X$	IX						8				154	
7	MW-95-	125	513107	915 1330	aw				1		\	XX	X						3					
0	mw 20-0	20-070-125 513/07 915 G						$X \perp$			X	X	X						8					
7	mw-20-	W-20-100-125 51367 1030 G						X	)	X PU	6		X						7					
3	mw-90-1	-90-125 S13107 1035 G							,	L PI	4 9	\$	X		·				2					
		2-25-125 513167- 6														X	X		10	10	$\omega$			
7	mw-12.	-125	513107	1200	aw	X										X	X	X	11					
0	mw-37	0-125	5/3/07	1320	GW	L												X	1					
1	TB-125-0	<b>५०३०</b> ७	5/3/01	600	TB	X	X																	
		<sub>√</sub> e	HAIN OF	CUSTO	OY SIGNATUR	RE R	ECO	RD										SA	MPLE	CONDI	TIONS			
	Signature (Relinquished)	nature Printed P - 0 ( CC					fzh	16	u !	Date/ Time	5/	3/0/		RE	CEIV	ED	CC	DOL		WAF	РМ □		°F	
	Signature (Received)	nature Printed Printed Co ceived) Name Till Agricultura					M		1	Date/ Time		7%	7	cu	STO	OY SE	ALE	D	YES	· 🗆	NO [	1		
1	Signature (Relinquished)	ature nquished had barne fin. Hadrey A						Ax	Ī	Date/ Time	S	40	1	SPEC										
1	Signature (Received)	re Printed At Haw Trans 9						XX	[		+	45		1										
	Signature	7	Printed	1	Company/		× 1.1			Date/	- 1	2 6		1										
- D	(Relinquished) Signature		Name Printed		Agency Company/					Time Date/														
	(Received)		Name		Agency					Γime						and six of a								

# (FRI)MAY 2007 10:08/ST.10:03/No.6800000012 0

4

965684

TRUESDA'L LABORATORIES, INC. 14201 Franklin Avenue Tuetin CA 92780,7008

## **CHAIN OF CUSTODY RECORD**

COC Number

(714)730-6239 FAX: (714) 730-6452							[2007-GMP-125-Q2]										O TIME		0 Days		
WWW W	truesdail.com			g <sup>3</sup>		•									25	DA	TE_			PAGE	OF _
COMPANY	E2						7	7	$\overline{}$	7	$\neg$	7	7	7	1	7	7	7	7	$\overline{T}$	
PROJECT NAME PG&E Topock									//	/						//	1	COMMENTS			
PHONE (530) 229-3303 . FAX (530) 339-3303							Ι,	//	/ /	/		Chroming	/ ,			//	/				
ADDRESS 155 Grand Ave Ste 1000				1		/	_/		/2/	14 15.2) 100 100 Fight	8	' /	1	/ /	A MISER OF CONTAINERS	/					
	Oakland, CA 9	4612			7	100	CAS (Tras.) Las Fillenas	Town Maria.	A B	PH (150 Conductance (120	3/	Antons (300) Br. C.S.C.	Disc. s. NO3	1945.2		/	/		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
P.O. NUMBER	P.O. NUMBER 345631.MP.02.GM TEAM 1				1 /	S Fills	SE FILL	P. Fille	1.7 FB	tance	//	80	1 8	108)	/ .	/ ,	/	/	\§		
SAMPLERS (SIGNATURE			/ / !	CR6 (7100) Lab Fillered	8 8	Town Malan	2 / E	Dug !	a /:	1 8	Bulco	18 (60	/		1	1	0		y		
59			117	<i>}</i>	86.27	/8		II ME	COME	130	108(1601)	Sions	8/:	New /	1			MAD			
SAMPLE I.D.		DATE /	TIME	DESCRIPTION	15	/ ধ্		120	8	1 1	R	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18	4	<del>/</del>	4	_	\ <u>×</u>	<u> </u>		That
mw-241	BR-125	5/3/07	0745		Щ		Х	Щ	X		X		X	4-			>	3	Mease	: LAD	Filter CT
MW-C	15-603-										Ш		丄								
MW-10-	125		1040			X			χĺ	X			X								
													T		8						
		,	12										T								
					$\Box$								$\dagger$	1					<u> </u>		
					H							$\dashv$	十	+				Н			
	*				H	$\dashv$						+	+-	-			-				
	p				Щ							ــــــــــــــــــــــــــــــــــــــ	<u> </u>		لبا	Ш					
	Ç	HAIN OF	CUSTO	DY SIGNATUR	E RE	CO	RD				1		Т		<del>-</del>		SA	MPI F	CONDITI	ONS	
Signature (Relinquished) Printed Shawn Darthy Company/ Name Printed Shawn Darthy Company/ Agency						CH2M H/7/ Date: 5/3/07 Time								RECEIVED COOL WARM "F"							
Signature (Received) // Printed 1/45he m; Company/ Agency													CUSTODY SEALED YES NO								
Signature Printed Company!					-					1):7	SPECIAL REQUIREMENTS:										
(Relinquished)     Name     Agency       Signature     Printed     Company/						1000					To a social regularity (o.										
(Received) Name Agency Signature Printed Company/					-						4							2:			
(Relinquished) Name Agency						Date/ Time															
Signature (Received)			Company/ Agency					Date													

EMAX Laboratories, Inc.

# CHAIN OF CUSTODY RECORD

07±077

1	1835 W. 205th Street, Torrance, CA 90501 Tel: (310) 618 8889 Ext. 119 Fax: (310) 618 0818 Joe Kelbley jkelbley@emaxlabs.com				[2007-GMP-125-Q2]											TURNAROUND TIME 12 Days  DATE PAGE OF							
	Joe Kelbley jkelbley@em	naxlabs.com														200		·			-		-
COMPANY	E2						$\overline{}$	$\overline{}$	7	7	/5	, d	100	1,4,K	$\overline{}$	7	7	$\overline{}$	$\overline{}$	//	7	COMMENT	s
PROJECT NA	ME PG&E Topock	GWM									9.KN	/2	220			/				///			
PHONE	(530) 229-3303	3	FAX (530	0) 339-3303		,	/ ,	/ ,	/ /	/ ,	Can.	Tile		_/	/ /	/	/ /	/ ,	/ ,	/ /0/			
ADDRESS	155 Grand Ave		····	₽. K <b>e</b> s							Diss Melal.	Fills	Filler	900						THER OF CONTAINERS			
	Oakland, CA 94								15)	) Field	J.Field	) Field	) Field	/	/		/-						
P.O. NUMBER	345631.MP.02.		2	10	/	(p.29)	18015	\ \g \	SW80	90109	60108	60108	470	(1)	(5.00	~/	/ /	/		8			
SAMPLERS (S	SIGNATURE	m 7.	1) up	ly-	/ / 8	17PH-03-0	SVOC (SW8015)	2 (8)	Diss Max.	Mot	Metals	Metals	Alkalinity (310	Ammonia (2)	Sulfide (37.6.					A J			
SAMPLE I.D.		DATE	TIME	DESCRIPTION	\8	JE JE	Sto	J. J. J.	Oiss /	Diss /	Diss	Diss/	Alkali	Amm	Sulfio	/	$\angle$	$\angle$	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				×:
mw-10	)-125	5/3/07	1040		X	X	X	X		X		X											
	6-125		1100		X	X	X	X												,			
Mw-11-			1300		X	X	X	X								94			18	ms/ms	0/		
						·		Ĺ															
	12																						
	7.00																						
	·																						
		-																					
	C			DY SIGNATUR			-	-77			-1 1							S	AMPLE	E CONDITION:	3		
Signature (Relinquishe	Shu T. Wyf	Printed Name	Shave	Duffy Company Agency	COLUMN TO SERVE	2M	H	7/	Tin	ne	13/0	140	00	R	ECEIN	/ED	C	OOL		WARM [	] .		°F —
Signature (Received)	0.0 1/2/	Printed Name	hil Ho	Company Agency	6	W	A	<u>(</u>	Da Tin	ne	54			C	JSTO	DY S	EALE	D	YES	s 🔲 No			
Signature (Relinquished	o) Ahl Hate	Printed P	hilte	Company Agency		ZV	1AY	<u> </u>	Da Tin	ne		50		SPE	CIAL R	EQUI	REME	NTS:	(E)	T-27	5		
Signature (Received)	Ale	Printed Name	MHAY 7	Company Agency	1	M	AV		Da Tin	ne	15	50			(1) (2) -	T- 3	ハクロ	(C	(5)	T-2.7 T-3.3	30	-	
Signature (Relinquished	<b>/</b>	Printed Name	T	Company Agency	/				Da Tin		50				9	1 6	2 D	1	_				
Signature (Received)	· · · · · · · · · · · · · · · · · · ·	Printed Name		Company Agency	1				Da Tin						9	!	م, ر						

w

965684 COC Number

TRUESDAIL LABORATORIES, INC. 14201 Franklin Avenue, Tustin, CA 92780-7008

## **CHAIN OF CUSTODY RECORD**

(714)730-6239 FAX: (714) 730-6462	720U/-L9N1P-123-UZ1	DATE PAGE OF					
### E2  ################################	CR6 (218.6) Lab Fillaged CR6 (7196.4) Lab Fillaged CR6 (7199) Lab Fillaged Tolai Mellas (200.7) Fillaged Specials Consturance (120.1) TOS (160.1) Anions (300) 81.Cl.SO4.NO3 Oiss Malais (60189) Field Fillaged Chromium	/////					
SAMPLE I.O. DATE TIME DESCRIPTION							
MW-39-040-125 5/3/07 4:16 4W		<del></del>					
MW-39-070-125 5/3/07 8:09 GW		3					
mw-39-80-125 5/3/07 8:55 GW		3					
WW-39-100-125 5/5/07 9:51 GW		3					
-B-125-07 5/7/01 10:35 Water		l l					
1W-44-070-125 6/3/07 11:19 GW		3					
C15 - 15 5/5/01 - GW							
015-089 S/3/07 GW							
ignature Relinquispeg Auru II. Hield Name Aurova VII. Hield Spancy	Control of the state of the sta	SAMPLE CONDITIONS COOL WARM "F					

	CHAIN OF COSTO	SAMPLE CONDITIONS							
Signature (Relinquisped)	M. Hably Name Aurora M	History E2	Date 5/9/07 14:00	RECEIVED COOL	WARM 🗆 °F				
Signature (Received)	Printed Mash Y	m; Agency T.L.1	Dale 5,3,7 14:30	CUSTODY SEALED YE	s D NO D				
Signature (Relinquished)	Printed Name	Company/ Agency	Dale/ Time	SPECIAL REQUIREMENTS:					
Signature (Received)	Printed Name	Company/ Agency	Dale/ Time						
Signature (Relinquished)	Printed Name	Company/ Agency	Dale/ Time		¥				
Signature (Received)	Printed Name	Company/ Agency	Dale/ Time						

# (FRI) MAY 4 2007 10:09/ST. 10:03/No. 6800000012 P

5

965684

# (I

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

# CHAIN OF CUSTODY RECORD [2007-GMP-125-Q2]

COC Number

TURNAROUNG	TIME	10 Days							
DATE		PAGE	OF						
			-						

~																		
COMPANY	E2					/	/- /		//	/-/			/	/ /		11		COMMENTS
PROJECT NAME	PG&E Topock					- /		/	/_/			/ .	/ /:	<b>F</b>	/ ,	/ /	11.	CHIREITI
PHONE	(530) 229-3303	3	FAX (530	) 339-3303			//	/ /			//	/ /		//	/ /	/ /	1. [	
ADORESS	155 Grand Ave	Ste 1000				//	/ /	/8	/_/	/ /	/ /.	./_	186	/ /		//	E. S.	
	Oakland, CA 9					2	8 / 8	The state of	igi/	/	18	415.2	1 SE /		/ ,			
P.O. NUMBER	345631.MP.02	.GM	TEAN	1 1	/	S. F. S.	The state of the s	E.	8		180	log /		11	/ /	18	/	
SAMDI EDS (SIGNA	345631.MP.02	//	the	Wine	CAS (278.6)	CRG (7180A) Lab Filland	TOWN MELLS CONTRIBUTED	Special Congress	1/_/	/_/	Tobal Gran Br.C., S.O., NO.	Diss Meals (F.C.)	1000) Flew Fillered C	/ /		NUMBER OF CONTAIL		
		THE M.	11191	acy	18	18/2	E / 3	Sec.	130	Anions (180.1)	2/8	Men	/ /		/ /	We E		皴
SAMPLE I.O.		DATE	TIME	DESCRIPTION	/₹/	§ /§	120	/ & /	£ / É	1	10	8/				₹/		
CIS -08	7	5/3/07	145	GW		X		XI.	X			X				2		
cis-or			1300	GW		ΙX		XI	$\langle    $			X				2		
	* • •		• 8	24.2	П	T		Π,				7						
												T	1			1		
• ·															T			
		<u> </u>						1			İΠ				Ť	T	-	
	<b>4</b>		-				$\Box$	寸	十			$\dashv$			T	1		
<del></del>	<u>i</u>	ļ ·		: '		_	计计	1	1			_	1	11		1		
•	7	<u></u>								1				4	L			····

,	CHAIN OF CUSTODY	SAMPLE CONDITIONS							
Signature (Relinouish Museum	I thuckly Printed Autora M. H.	Company E2	Date 5/3/07 Time	RECEIVED COOL WARM 1					
Signature (Received)	Printed Haghen;	Company/ T. L. /	Date: 5,3,07	CUSTODY SEALED YES [] NO []					
Signature	Printed	Company/	Dale/	SPECIAL REQUIREMENTS:					
(Relinquished)	Name	Agency	Time						
Signature	Printed	Company/	Dale/						
(Received)	Name	Agency	Time						
Signature	Printed	Company/	Dale/	]					
(Relinquished)	Name	Agency	Time						
Signature	Printed	Company/	Date/						
(Received)	Name	Agency	Time						

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

# CHAIN OF CUSTODY RECORD [2007-CIS-002]

COC	Numbe
COC	MOUNDS

TURNAROUND TIME	10	Days	
DATE	PAGE	OF	•

PROJECT NAME PHONE ADDRESS P.O. NUMBER	(530) 229-3303 FAX (530) 339-3303  155 Grand Ave Ste 1000  Oakland, CA 94612  354631.MP.02.CI.00 TEAM 1				CR6 (71964)	Lab Fillbred	Specific Co.	pH (150.1)	//		Total Quant 1, 504, 1002	c Carbon (415 2)	7	//				SER OF CONTAINERS	contracte oc.	MMENTS
SAMPLERS (SIGNA	ATURE				Re (71.964	Re (7199)	Becificos	PH (150.1)	1,091,501	ions (30)	#1000 H						UMBE	and the second	5/0	p 1-7
SAMPLE I.D.		DATE	TIME	DESCRIPTION	10/	3/	02	1 5	12	4	120		$\Box$		 		12		0/8/	01
C15-08	7	5/8/07	7:45																	
C15-01	3	5/3/07	13:00						X	X	X									
																		-		
						Ì														

	CHAIN OF CUST	SAMPLE CONDITIONS								
Signature (Relinquished)	Printed Shaws	Detty Company/ CHZA	1 HT/ Date/ 5/8/07/400	RECEIVED COOL WARM "F						
Signature	Printed	Company/	Date/	CUSTODY SEALED YES NO						
(Received)	Name	Agency	Time							
Signature	Printed	Company/	Date/	SPECIAL REQUIREMENTS:						
(Relinquished)	Name	Agency	Time							
Signature	Printed	Company/	Date/							
(Received)	Name	Agency	Time							
Signature	Printed	Company/	Date/							
(Relinquished)	Name	Agency	Time							
Signature	Printed	Company/	Date/							
(Received)	Name	Agency	Time							

EMAX Laboratories, Inc. 1835 W. 205th Street, Torrance, CA 90501

## **CHAIN OF CUSTODY RECORD**

COC Number

	310) 618 8889 Ext. 1 Kelbley jkelbley@em		618 0818			[20	07-C	IS-0	02]								URNA DATE	ROU	ND TI	ME		E 2	OF 3
COMPANY	E2						7	17	+/	1/	17	1/1	7	7	7	7	7	7	7	7	//		
PROJECT NAME	PG&E Topock	GWM						1	\/	/*	$\sqrt{}$	/ /	/	/ ,	/ /	/ /	/ /	/ /	/ /	/ /	//	co	MMENTS
PHONE	(530) 229-3303		FAX (530	339-3303		/	/ ,	20	/ ,	(80/Cp)		/ /	/	' /	/								
ADDRESS	155 Grand Ave	Ste 1000				/	/			7	1.0/2/	33				/		/		WERS	/		
	Oakland, CA 94	1612				3.	15	3/25	12/2			200		/ /	/ /	/ /	/ /	' /		R N			
P.O. NUMBER	345631.MP.02.				1	(457.4)		7	V/	·*	1 7									3			
SAMPLERS (SIGN)	ATURE Sun	orall.t	buck	les	1 /2	1	3/5	10,2	3	cijo	2001		/		/ .			/	FRO				
SAMPLE I.D.					1/4/2	0	5.00/ved	14:06	All Marie Inc.	4	inomi	/ /	,	/ /			' /		"UNB	CONTAINERS			
CIS-C	297	5/3/01	7:45	G W	X	X	X	X	X		$\overline{}$	-	$\forall$	$\dashv$	+	+	+	15					
(15-0		9/3/01	13:00	GW	X	X	Y	X	X	X	$\dashv$		$\dagger$	十	$\top$	T	$\top$	6		****			
		119/01	. 720							/ \	$\dashv$	$\neg$	$\dagger$	$\top$	$\top$	$\top$	$\top$	十	$\top$				
													+	$\top$	$\top$	$\dagger$	$\top$	1	$\top$				
											$\neg$		T	十	$\top$	T	$\top$	T					
											$\neg$		$\dagger$			T		1	1				
													1				T						
	С			OY SIGNATUR		CO	RD											SAMF	PLE C	ONDIT	IONS		
Signature (Relinquished)	on U. Hindele	Printed Name	wa M	Hinckey ncy	£	=2	•				3/0	714.	o	REC	CEIVE	D	coo	L		WAR	М		°F
Signature (Received)	al Hatche	Printed Name	hel L	Agency	E	Mi	4×		Dat Tim	e -	240 85	7		cus	STODY	SEA	LED	Y	YES [		NO	<b>_</b>	
Signature (Relinquished)	mel Hote	Printed Name	nil He	Company/	Ė	W	A	×	Dat Tim	e/ <u>\$</u>	12	50	ł	SPECIA									
Signature (Received)	ye	Printed Name	PANYF	WHAT Gompany/	ŧ	m	<b>A</b>	7	Dat Tim	e/ () e		8									ng, n	In. M	10
Signature / (Relinquished)	(Relinquished) J Name Agency				Date/ Time									/Vα,	V,	Ni,	Cu,	$2n_{j}$	Pb,	se			
Signature (Received)		Printed Name		Company/ Agency		7.77			Dat Tim														

_
1
LU
-
5
MAY
D
_
_
C
700
1
-
_
_
7
a
S
3
1
2
_
-
_
1
à
u
+
34/N
Z
5
0
OX
-
-
=
_
JANAAAA
C
-
_
-
τ
-

(	14204 (714)	SDAIL LABORATO I Franklin Avenue, 730-6239 FAX: (71 truesdall.com	Tustin, CA 92	780-7008	9657							COF	RD .	•4		•	•	TUF		OUNE	TIME	F	10 PAGE	Days OF	= _
Γ	COMPANY	E2				Т		7	$\neg$	1	7	1	1	7	I	1	7	7	1		1	T	7		
ı	PROJECT NAME	PG&E Topock						/		1						1				/		/ /	/	COMMENT	rs
-	PHONE	(530) 229-3303	3	FAX (530	) 339-3303			/ ,	/ /	Ι,	Ι,	Ι,	/ /	/ ,	<i>[</i> ]	Ι,	/ · ,	/ ,		/					
	DDRESS	155 Grand Ave	Ste 1000					-/	/5	$\mathcal{I}$		1/8	3/5	$\mathcal{J}$	./		1		/						
Ī		Oakland, CA 9	4612				100	/8	130		/	18	1475				/		/		N. S.	/.			
ļ	O, NUMBER	354631.MP.02.	1_	/	Lab Fill	30 Fille	Tang /	/ /	/ /	21. F. S	1	. /	/ /	/ /	/ /	/ /	/ ,	/ /	[3]						
1	AMPLERS (SIGNA	TURE		r	18	CAG (7100) Lab Fillered	Specific Cab Fillered	PH (150.1)	70S (160 s)	1/8	Total Ore O. F. SOL. M.C.	John Carbon (415.2)	1			/				JER OF CONTAINED					
	SAMPLE I.D.		DATE	DESCRIPTION	88	8	Special	是	18	Anion	7081							$\angle$	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						
6	C15-00	29	5/4/9	1045	6N	X		X	X	X	X	X								5					
	C15 - 02	22:	5/4/07	12:17	GW.		*			N	X	XI		-			:								
7										1															2000
	* *																						-		
												T											-		
										T					7	$\neg$				i					
T								T	寸						T	T									
Ī									寸	一		T	$\exists$	一	$\dashv$										
<u> </u>		***	8.				_			_															
		С	HAIN OF	CUSTO	Y SIGNATUR	E RE	CQ.	RD											SA	MPLE	CONDI	TIONS			
	ignature Relinquished) 67	of 0	Printed Name		Company/ Agency					Dale		٠,			RE	CEIV	ED	co	KOL		WAF	RM 🔲		°F	
S (F	gnature teceived)	alemna	Drinlad /	Laber	Company	-	14	,		Date	1 (	14/	07		CL	ISTO	DY SE	ALEC	)	YES		NO	_		-
S	gnature (slinquished)		Company/ Agency				e contract	Date	1	1	A 4	1	SPEC	IAL RE	QUIR	EMEN.	TS:						$\neg$		
S	gnature (eceived)		Companyi					Date	1																
S	gnature		Name Printed	Agency Company/					Date	I			一					ΔΙ		ידכ	1	7			
	elinquished) gnature		Name Printed		Agency Company/					Time									71	- []	RT!	•			
(F	eceived)		Name		Agency					Time								O	10	LI		_			
						34												.01	/C	1	11	QC			

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

#### CHAIN OF CUSTODY RECORD [2007-CIS-002]

TURNAROUŅD TI	ME	12	Days
DATE 5/4	07	PAGE	OF

C	OMPANY	E2						7	$\neg$	$\overline{}$	7	1	77	7	/	$\mathcal{T}$	7	/ /		7		
PI	ROJECT NAME	PG&E Topock	GWM						1	>/	/×	~/	/ /			/ /	/ /	/	//	/	COMME	ENTS
PI	HONE	(530) 229-3303	3	FAX (530	0) 339-3303		,	/ ,	52		80/00	/_/	′ /	/ /	/ /					/		
Al	DDRES\$	155 Grand Ave	Ste 1000						/ر		V	1)/	<u> </u>				/ /	/ /	VERSS	/		
		Oakland, CA 9	4612				12	15	8/ X	en (en			3//		/ /	/ /	/ /		NE N			
P.O.	NUMBER	345631.MP.02	.CI			/	457.4	15	/~	12	/.×	\ \z.\		/ /	/ /				3			
S	AMPLERS (SIGNA	TURE JUL	na U.	Hino	klen	K	¿/.	2 100 2 2	140	1000 mg	A Calinity as	monia	//				/ /		WIBER OF CONTAINERS			
		<b>O</b> 4	a7-2 0			1/1-	6/3	3/4		3/2	7	ξ/	/ /		/ /	/ /	/ /					
100	CIS~0	09	5/4/07	1045	DESCRIPTION	X	V	X	V	×	V		-	$\mathcal{H}$	1	$\dashv$	+	5	_			
			5/4/07	<del> </del>	1	-	V	\\ \	<b>\( \tau \)</b>	1	$\vdash$		$\vdash$	-	+	+	12					
·   _	C15-07	12	GW	X	X_		_	X	X	-		$\vdash$	-	+	_	-						
										Ľ					$\perp$							
									(A.C.)						T		Π					
																T						
		C	HAIN OF	CUSTO	DY SIGNATUR	ERE	ECO	RD						-		-	S	AMPL	E CONDITIO	SNC		
	gnature elinguistee	ora MHise	M. Hinck Procy	1	27			Da Tin	te/ <	5/4/	07:30	RE	CEIVE	D	COOL		WARM	4 🗆		°F		
Si	gnature eceived)	Hatch	Company/ Agency	E	M	Ay	C	Da Tin	-	> /	67		JSTOD	Y SEA	LED	YE	s 🗖	NO [	1			
	gnature elinquished)	and the	Printed Name	hild	Company/	1	5	4	4>	∠ Dai		8-7	07	SPEC	IAL RE	QUIRE	MENTS:					
	gnature eceived)	<b>V</b>	Printed Name	- LVI	. Company/	=	m	4 ×		Da <sup>1</sup>	te/		7-67	×	As,	B, B	u, Ca,	cr, F	e, K, M	9, M	n, Mo	
Si	gnature ( elinquished)	$\rightarrow$	Printed Name		Company/		7			Dat	te/	/	• V	1	Na	V,	Ni,	Cu, 2	en, Pb, S	e		
Si	gnature	***************************************	Printed		Agency Company/					Tim Dat				1								
(R	eceived)		Name		Agency					Tim												

(WED) MAY
007.6
1/ 12:35/3
51.12
:34/No.
000000
00/1 P

14201 (714)7	SDAIL LABORATÒI Franklin Avenue, 1 30-6239 FAX: (714 truesdail.com	Tustin, CA 92	780-7008	6570	CHAI	N OI	<del>07-</del> @	JSTO	125-	<b>]</b>		RD					TUR			TIME	PA	10 D	ays OF
COMPANY PROJECT NAME PHONE ADDRESS P.O. NUMBER SAMPLERS (SIGNA)	E2 PG&E Topock (530) 229-3303 155 Grand Ave Oakland, CA 94 345631.MP.02.	Ste 1000 4612	FAX (530)  TEAM  Daffer	339-3303	S Place		1	//	7	7	The state of the s	ing Co.	Total Oct. 1.5.50 Mos.	Diss Males Carbon (415,2)	S (SOTOS) FINE FILE	Meed Chamian		7	The state of the s	SER OF CONTAINER		Ci	DMMENTS
SAMPLE I.D.		DESCRIPTION	/8	8	8	18	8	¥.	/R	1	120	18	_	+	H		13	<u> </u>					
C13-005	5								X	X	X	7	_										
C15 - 027	+		1125				X		X	X	X	X	X							<u> </u>			- Company
C15 -08	5		1145				χ		Х	Χ	Х	Χ	Х										
					_	$\dashv$									4	_	_	_	Ш	<u> </u>			
						$\dashv$	_									_	_	_					
							_		-			_			$\dashv$								
							-		_	_					$\dashv$	$\dashv$	$\dashv$			<u> </u>			
Signature (Relinquished)	c To Vaff	OY SIGNATUR Company/ Agency	CH		RD	7	Dat Tim	e	14/0			100	CEIV			OL		E COND	TIONS		°F		
	Eleun in	Company/ Agency		4	,		Dat Tim	-	141	07	18	1	STO	DYS	EALEC	<u> </u>	YES		NO				
Signature (Relinquished)		Company/ Agency			_		Tim	e				SPEC	IAL RI	EQUIR	EMEN.	TS:							
Signature (Received)		Company/ Agency			_		Date Tim					000000		!									
Signature (Relinquished)		Name Printed Name	Company/ Agency					A		R	ŢĮ								15				
Signature (Received)		Printed Name		Company/ Agency		16			Tim	e l	<b>4</b> T	Ť	0			. !				N			

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

#### **CHAIN OF CUSTODY RECORD** [2007-CIS-002]

TURNAF	ROUND TIME	12	Days	
DATE	5/4/57	PAGE	OF	

	H-0408.																				***************************************
COMPANY	E2						7	7	7	7.	/	7	7	7	$\mathcal{T}$	7	7	/ /	$\mathcal{T}$	17	COMMENTS
PROJECT NAME	PG&E Topock	GWM						1	>/	/*	~/			/ ,	/ /	/ /	/ /		/ /	/ /	COMMENTS
PHONE	(530) 229-3303		FAX (530)	339-3303				32		80/60		/ /	/ /	/ /					//		
ADDRESS	155 Grand Ave		9			/	/	0/	$\sim$ /	11	0/	N			/			/ /			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Oakland, CA 94					/5	:/_	8/	3)	2/3	13/0/	250.2			/ ,	/ /	/ /	/	N. N.		
P.O. NUMBER	345631.MP.02.			**		357.4	1/5	1/2	10/2/2	1/ .	1 -	1 1	/ /	/ /	' /				WIBER OF CONTAINEDS		
P.O. NUMBER			- /	· —		$\mathbb{C}'$	-	_		- K	12.	/ /						/ /	5		
SAMPLERS (SIGNA	TURE //	<u> 7.</u>	Veefen		1/3	§ \.	Solved 2	14/2	118 May 118	3	Primonia de					/ ,	/ /	<b>/ /</b> ,	EF.		
2474224423			-/		17	10	3/4	5/ c	3/8	1/4	2	/	/ /	/ /	/ /	/	/	13			
SAMPLE I.D.		DATE	TIME	DESCRIPTION	-		_	_	1	-	γ	-	-	-+	+	+	+	1		,	
C15-005		5/4/07	1000		X	X	X	X	X	X	$\vdash$		$\dashv$	+	-	+	+	+-	-		
C15-027	<u> </u>		1125		X	X	X	X	X	X		$\vdash$	_	_		+	_	_			
C15-085	í		1145		X	X	X	X	X	X			_	$\perp$		$\perp$		_			
	e 21																				
														T							
								Г					$\exists$	$\top$		1		1			
													$\dashv$	十		$\top$	1	1			
			++										$\dashv$	$\dashv$	+	+	+	+			
		HAINOE	CUSTO	OV CICNIATUE	) F D		DD.	<u> </u>	<u></u>				$\dashv$		_						
Signature	11 7 1	/#rinted		OY SIGNATUR	_			n	Da	te/	5/4/	100							E COND		10/80
(Relinquished)	Show 1. Way	Name	Shave 1	July Agency	Con	M	45	<u>u</u>	Tin	16				RE	CEIVE	D	COOL	ш	WA	RM 🗌	3.20 c
Signature (Received)	I HE	Printed Name	ril H	Company/	F	M	11	X	Da Tin	ie/ ie	5%	05		CU	STOD'	SEA	LED	YE	s 🗖	NO	
Signature (Relinquished)	n [ Hatch	Printed Name	h JA	Company/	-	£.	n	4 4	C Tim		5/2	07	7	SPECI	AL REC	UIRE	MENTS:				
Signature (Received)	1		J-LUN	-	*	MA			Dat	e/ c	5	7-0		×	As,	B, B	n, Ca	, cr, f	e,K,	my, n	In, Mo
Signature	$\supset$	Printed	) ~V	Company/		IVIA	+ /		Dat	e/	_/3	3			Na,	V,	Ni,	Cu, 2	n, Pb,	, se	
(Relinquished)		Name		Agency					Tim	100.0											
Signature (Received)		Printed Name		Company/					Dat				- 1								

(WED)
) MAY
9
2007
2:35/
/ST. 1
12:
:34/
No. 6
6800
000
71 P
0

	SDAIL LABORATO		780-7008		CH/						COR	D.						Num		TIME	10	Days	•
(714)	730-6239 FAX: (714 truesdall.com		4	65 H	) ]		[200]	7-CI	5-002	]										107	PAGE		OF J
COMPANY	E2				T		7	1	7	7	7	7	7	T	$\mathcal{T}$	7	7	1	7	7	7	COMME	NTS
PROJECT NAME	PG&E Topock									/		//	1		/	/	/	/	/	//	/	COMMILE	
PHONE	(530) 229-3303	<u> </u>	FAX (530	) 339-3303			/ ,	/	/ /	/	/ /	/ /		F	lec'q	101	0540 <b>5</b> 7	4/07	3	1/5	/		
ADDRESS	155 Grand Ave		_						-/		ĝ	3/8	/	3	d	0	3 l	יּט	,	MER	•		
	Oakland, CA 94	4612				lle re	1 200	18/32	7		8	10/415	/	1	/ /	/- <sub>/</sub>	/ ,	/ ,	/	18			
P.O. NUMBER	354631.MP.02.	CI.00	TEAM	1		18	150 F	*tucian	/ /	/	1 C	Calle	/	/	/	/		/	1	8			
SAMPLERS (SIGNA	ATURE					8 / 3	8/3	\$ /	10S (180.			[ ]	/	/		/	/	/	1 2 2 2				
SAMPLE I.D.		DATE	TIME	DESCRIPTION	8	CRG (TASSA) Lab Filliams	Specific C. Lab Fillered	Ha	80	Anion	Tobi Card CI. R. SON, MOS	Canbon (415.2)	_/	_/					\$	S OF CONTAINERS			
45-	026	5/4/0	11715	64	4	X	X	X	X	X	X		1				_	70		4			
C15-0	106	5/4/04	0810	6W:	Le	X	X	X	X	X	X							H	\$	4			
US-0	26	5/4/04	PH5	6W	5/4	X	X	X	X	X	X								5				
					П		ΔΙ	E	R]	11													
					-	_	/ \				A									- 4	137		
					Ц	Le	Ve	!	111	. (	ĮΨ									fe <sup>5lv</sup>			
					<u> </u>											;		9		tote	. 1		
		HAIN OF	CUSTO	DY SIGNATUR	)E R	ECO	BU	_					$\overline{}$		-				451.5	CONDITI			
Signature —	MINITAL NO	APrinted (	Lourg		101	ZA	1-1		Dat		1420	牙	$\exists$	RE	CEIVE	D	cod	SAN DL [		CONDITI			°F
(Relinquished)	Olayaha	Name Printed		Company Company Agency		74	Щ		Tim Dat Tim	e/ 1	14/	07	1				ALED		YES		NO 🗆		
Signature	abelluria	Printed		Company		9			Dat Tim	e/	, ,, ,	18	띡.	PECI	AF RE	OLURE	MENT	۲۰	123	L-1	NO L		
(Relinquished) Signature		Name Printed		Agency Company	ł				Dat	ef			一,		F	or	Sa	M	)le	Con Atta	ditio	20	
(Received) Signature		Name Printed		Agency Company/	1				Date	e/			$\dashv$			St	90 1	ະດາ	'!]] <u>1</u>	Atto	MILLO	15	
(Relinquished) Signature (Received)		Printed Name		Agency Company/ Agency	,				Date	e.f			┪		l		SELECTION SERVICE			- recal	onea		

07E094

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

#### CHAIN OF CUSTODY RECORD [2007-CIS-002]

TURNAROUND TIME		Days		
DATE 5/4/07	PAGE	1	OF	

													reinner.						the state of the s	
COMPANY	E2										7	11	7		/ /	7	/		COMMENTO	
PROJECT NAME	PG&E Topock	GWM_						1:	\	/*	/ ,	/ /		/ /	' /			///	COMMENTS	
PHONE	(530) 229-3303	3	FAX (530	0) 339-3303			/ ,	3	/ /	80/08		_/	/ /				/ ,			
ADDRESS	155 Grand Ave	Ste 1000				/	/	./.	1	7	0.	(v) /			/ /	/ /	/	THE STATE OF THE S		
	Oakland, CA 94	4612				15	1/5	5/2	N)	?/C	300	3/ /		/ /	' /			N. S. S. S. S. S. S. S. S. S. S. S. S. S.		
P.O. NUMBER	345631.MP.02.	.CI		-		357.4	15	-	V	1 1	7		/ /				/ /	THER OF CONTAINERS		
SAMPLERS (SIGN	ATURE				1/3		30/	8	W.	113	5	//			/ /	/ /		0		
					1/7	ξ/.	Solved	0,140	Sales All	2 /2	pillonia pillonia	/ /	/	/ /			Z Z			
SAMPLE I.D.		DATE	TIME	DESCRIPTION	11-	10	1 4	9	18	1							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
C15-0	126	5/4/1	6715	GW	+	X	X	X	X	4							5			
45-0	06	5/4/07	0810	6W	X	Y	X	X	X	Y							5			
		1								7										
	***************************************									T	$\top$			$\top$	1	$\top$				
										$\dashv$	十	_		$\top$	+	$\top$				_
		<b> </b>						$\vdash$	_	$\dashv$	$\dashv$	_	$\vdash$	+	+	+	$\vdash$			
			<b></b>		-					-+	-+		$\vdash$	$\dashv$	+-	+-	$\vdash$			
									_	_	_	-		+	+-	+	$\vdash$			
																	10	total		
	С	HAIN OF	CUSTO	DY SIGNATUR	RE RI	ECO	RD				92					SA	AMPLE	CONDITIONS		
Signature (Relinquished)	2 Mileto	Printed Name	Lau	Company, Company,	0	127	M		Date		74]	17	RE	CEIVE	) (	COOL		WARM [	°F	
Signature (Received)	DIT.	Printed Name	la IL	Company			NA	×	Date	e/ _5	5-2	07	cu	STODY	SEAL	ED	YES	00 NO	П	
Signature (Relinquished)	ROLLA	Printed	nilA	Company			10		Date	e/ 5	27	50	1	AL REQ						-
Signature (Received)	W	Printed Name	T- LVI	Compone		na		<u>, ,                                   </u>	Date		15-16						cr, Fe	e, K, My,	Mn, Mo	
Signature	$\supset$	Printed		Company/		-	WW		Date	e/	/3		1	Na,	V,	vi, c	.v, Z	n, Pb, Se		
(Relinquished) Signature		Name Printed		Agency Company/					Time				1							
(Received)		Name		Agency					Time											- 1

	✓ TRUE	SDAIL LABORATO	ORIES, INC.			CHAI	NOFC	USTOD	Y RE	COR	D			CO	C Numb	er				
	14201	Franklin Avenue, 730-6239 FAX: (71	Tustin, CA 927	780-7008	MAD	J. 17 t.		SMP-125							NAROL				Days	<u></u>
		truesdall.com	14) 130-0402	46	WX		įzoor .							DA	TE	14/	07	PAGE		OF _
	COMPANY	E2						7	7	7	7	T / T	7	77	$\mathcal{I}$	1	71	abla	сомм	ENTS .
	PROJECT NAME	PG&E Topock						II	/_		/ /		//	# /	/ /	/ /	/ /	1		
	PHONE	(530) 229-330	3	FAX (530	) 339-3303			Town Meleis (2007) Filtered	nomiun	/ /	/ /	/ ,	/ / {	Linguista Compiesa	/ /			,		- 12 4 (2
	ADDRESS	155 Grand Ave	e Ste 1000	_			//		8/	•/	//	8/8		/ /		/	/ 1	Rec.	9 6	5/04/0 57 N
		Oakland, CA 9	4612	_			/ B / B	8/8/		1	1 /	18. 18. 18. 18. 18. 18. 18. 18. 18. 18.	13/		//	/ /	Ž,	a a	a 0 .	)
	P.O. NUMBER	345631.MP.02	2.GM	TEAM	1_	/	CR6 (71.86.4) Lab Fillaged	Town Mens (2007) Filtered	PH(150 DALCHARDS (120	/ /	Anions (300) Br. C. S.	Diss Marie Carbon (415.	SIS (60108) Field Fille of C	//	/ /	NUMBER OF	8/			
	SAMPLERS (SIGNA	TURE SUL	na M	Hisal	eler-	/ (	1 8	7 8	3	728(180,1	1	Sanic	g /	/ /		18	/			
				7		18	15/8	1 3/3	PH (150 5)	18	8/3	0 3	7 /	/	//	3	7			
	SAMPLE I.D.		DATE	TIME	DESCRIPTION	18	18/8	12/8	1/2	P	£ / 5	10		-	4	3/				
-1	MW-49-	275-125	5/4/01	7:41	4W		X	L X	X			$\dot{X}$			3	_				
2	MW-49 -	135-125	574/07	0810	6-N		X	1	八人		$\perp$	X		$\perp$	1	3				
3	MW-49-			9:21	GW		X	X	(X			X		$\perp$	حيب	3				
1	MW-44-	115-125	5/4/08	1120	GW		X	X	X			X		<u> </u>	-	3				
5	MW-28-	096-125	5/4/07	1010	6W		X	X	X			X				3				
ľ	MN-46-	205-125	5/4/02	1235	6M		K	X	1/			X				3			15.05	
7	EB-125	5-09	5/4/07	1145	6 W		人								Ц	1				
3	EB-125	-08	5/4/07	13.00	GW		X													
a	EB - 125	100010	5/4/07	9:25	GW		X							<u></u>						
			CHAIN OF	CUSTO	OY SIGNATUR	ERE	CORD		į.			_			SAM	IPLE C	ONDITH	ONS		
	Signature (Relinguis	no U. Hack	Printed Name #1	crova M	Hisck Agency	E	2	D T	ate/ <b>%</b> me	14/0	7	٦. [	ECEIVE	o Co	OOL [	}	WAR	и 🗆		*F
	Signature (Received)	aleunut	Printed Name	Hicke	3 Channens		My	T	ate/ 5/	4/2	7 18	7 0	USTODY	SEALE	D	YES		NO 🗆		
	Signature (Relinquished)		Printed Name		Company/ Agency			T	ate/ ime			SPE	CIAL REC	UIREMEN	NTS:			•		
	Signature (Received)		Printed Name		Company/ Agency		200		ale/	EC	LII	J			*		ہت ۔۔۔	· · · · · · · · · · · · · · · · · · ·	·	
	Signature		Printed		Company/ Agency			THE RESERVE TO A SECOND PORTION AND ADDRESS OF THE PARTY	me	-	11;;			1.0	3		3 79	Mary and B.	41	
36	(Relinquished) Signature	*******	Name Printed	1	Company/				her l	7	17	7		9	to to the		آخر∛ ''' داخت عدد	ondi tach	lion.	s /
J	(Received)		Name		Agency				iule.	-4	-		, .		W. C. C.	- 4	11 713	1772.22	C22	

TRUESDAIL ŁABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-700
(714)730-6239 FAX: {714} 730-6462
www.truesdail.com

#### CHAIN OF CUSTODY RECORD [2007-GMP-125-Q2]

COC Number

TURNAROUND TIME	10	Days	•
DATE 5/4/06	PAGE	1,	OF

COMPANY	E2				1	//			/	/	/ ,	/ /		1		III	COMMENTS
PROJECT NAME	PG&E Topock					/ /	/=		/ /	/ /	/ /	July William	7	/		///	
PHONE	(530) 229-3303	FAX (530	) 339-3303		/ /		Momit	/ /	/ /			O. Charles	Ι,	/	/ /	/ /2/	
ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612						pH (150 120		Anons (300) 8-5	SQ. NO3	1(415.2)	Tred File ed Choms	/			JER OF CONTAINERS	
P.O. NUMBER	345631.MP.02.GM	00	1 1	6) Lab Fill	1 Lab Fill	1 500 PH	Onductano		80/8	anic Ce	18 (60108)		/. /	/ /	/ /,		
SAMPLERS (SIGNA	DATE	TIME	DESCRIPTION	CRG (2186) Lab Filler	CR6 (7190) Lab Fillered	Total Nation (2007) Field Sta	PH (150.	10S(160.1)	Amons (3	7081/0g	Diss Metals (6010p)		$\angle$	$\angle$	NUMBE		
(35	926 5407	8.715	aw		X	- 1	X	X	X,	X		ر ا -	5	4	27		
- mo ~ 117	-055-125 314lor	0810	aw		X	X	X	X		4	仕	0	<u> </u>	Ľ			
MW-47.	- 115-125 5/4/07	0910	aw		X	X	X			_ /	$\Box$	$\perp$			3		
mw-25-	125 Re 7/19/2	4		<u> </u>	- /	$\bot$				_	_	_	ļ_	<u> </u>			
1015-0	06 5/4/04	0810	GW		X	X	X		_		<u> </u>	ļ		<u> </u>	3	-	
C15 - 07	22 5/4/07	1217	6w		X	X	X				<u>(                                    </u>	井		匚	口	7 14	e dea
		3										<u> </u>		L			for meta
							322			-					6	total	
	· ·																
		CUSTO	DY SIGNATUR	RERECC				74/9	_	_		75		S	AMPLE	CONDITIONS	<b>°</b> F

	CHAIN OF CUSTO	. SAMPLE CONDITIONS		
Signature (Relinquished)	Printed Laure	FOIL Agency	Date/ 6/4/07 Time /3/5	RECEIVED COOL WARM WARM
Signature (Received) L- Male	ynumerame Shall	Company 72/	Time 5/4/07 18	CUSTODY SEALED YES NO D
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS:
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	ALFETH
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	7(66:11);;
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	Level III QC

(MON) MAY 7 2007 9:18/ST. 9:16/No. 68000000033 P 5

TRUESDAIL LABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-700
(714)730-6239 FAX: (714) 730-6462
www.truesdail.com

CHAIN OF CUSTODY RECORD
[2007-GMP-125-Q2]

ODY RECORD

COC Number

TURNAROUND TIME	707	Days	•	•
DATE 5/4/07	PAGE		OF	_

~																				1 1	7
COMPANY	E2								/	/	1		/	1	/	/					COMMENTS
PROJECT NAME	PG&E Topock									/=				/	/	Chromium	/			///	
PHONE	(530) 229-3303	3	FAX (530)	339-3303		,	/ /	/ /	/ /	homic	/ /	Ι,	/ /	/ /	/ /	5	/ /	/	Ι,	/ / 9/	
ADDRESS	155 Grand Ave					/		TOWN WALLS			7		Total Oct 81,01,504, NO.	Diss Meby Carbon (415.2)		5/	/			THE OF CONTAINERS	
	Oakland, CA 94	4612				1000	Mere	18	18	127	/	/	18	14/11	17.00	/	/	/		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	¥3
P.O. NUMBER	345631.MP.02.	GM	TEAM	1_1_	/	鲁	19	ab Fil	160	Ctan	/ /	1	Brai	\$	90,00		/ /	,	/ /	<u>v</u>	÷
SAMPLERS (SIGN.	ATURE	~ 7.	Del	5		CRG (7150 FINERS	CP6 (7190) Lab Fillerad	TONE MOLES LAD FINES CO		DH (150 1)	Tos (Ilea			Diss Meby. Carbon (415.2)	7	1		/		ğ/	
0.55			11/		8	8	186	A A	Pecific	4(15)	100	100	OH!	SS AM	/	/	/	/	13	/	
SAMPLE I.D.		DATE	TIME	DESCRIPTION	/ 6	/ 0		<u> </u>	10	9		1	<del>-</del>	7		(5)		-	-		
C15-005	<u> </u>	5/4/07	1000				X		χ	Х		_									* : ***
								٠,													
					$\vdash$		П														
				• ,												•					
					十																
	* .			<del></del>	$\vdash$																
					T	<u> </u>		П					-			·					
															_						

СН	AIN OF CUSTODY SIG	SAMPLE CONDITIONS								
Signature (Relinquished) Shun ? Deffy	Printed Shaws Daffy	Company CH2M HTT	Date/ 5/4/07 Time	RECEIVED COOL WARM						
Signature (Received) / Wabuning	Printed Hadyunice	Company/ 77/	Date/ 5/4 /0 Z	CUSTODY SEALED YES NO						
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time /345	SPECIAL REQUIREMENTS:						
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	ALERTII						
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	16-111:						
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	Level III QC						
				The same of the sa						

(MON) MAY 7 2007 9:18/ST. 9:16/No. 6800000033 P

0

078092

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

(Received)

#### CHAIN OF CUSTODY RECORD [2007-GMP-125-Q2]

COC Number TURNAROUND TIME

DATE 5/4/07

12 Days PAGE

-H 1	4.0										1000000								- 2			Market School	
COMPANY	E2						7	7	7	7	1	9 /	120	100	7	7	7	$\overline{}$	4		7	COMME	UTS
PROJECT NAME	PG&E Topock	GWM									3.K.N.3	/2	2,Ca,			/		1	P/	//		COMME	****
PHONE	(530) 229-3303	3	FAX (530	) 339-3303		1	/ ,	/ ,	/ /	/ /	Diss Melals CO Field Filler	Diss Metals CATA Filed Fillered	Tille		' /	' 	To the second se		**	/ / / / / / / / / / / / / / / / / / / /	/		
ADDRESS	155 Grand Ave	Ste 1000	- 2				/	/	/		ller ed		B / B	8				1	4	MER	/		
	Oakland, CA 9	4612								Sield F	Field F	Sield F	Field F	/	/	/	12		#	N X			
P.O. NUMBER	345631.MP.02	.GM	100		١,	( F. )	SVOC. (SW8015)		Diss Metal	188/	1,08/	108)	(80)	-/	~/	/		A STATE OF THE STA	7	THER OF CONTAINERS			
SAMPLERS (SIGNA	ATURE	Treb	44		VOCS (ROC.	980	SVOC. 1010015	00/	Sel (S)	9 / 9	9 /8	3/8	Alkalinity (310.	Ammonia (35.0	Sulfide (376.2)	\\\.	*/	4		83			
					3	T. J.		F. G.	S Met	S Met	SS Met	Ss Met	(ali nity	monii	Mide	1		£9/	1				
SAMPLE I.D.		DATE	TIME	DESCRIPTION	13	/ &	13	18	100	10	18/	8	₹ /	4	3	*	1 70		18	<del> </del>			
CIS	950	5/9/07	075	aw			_		X	$\exists$	_		X	X	Acres 100 and	X	*	514	104				
MW-47-	055-125	5/4/07	0810	GW	_	_	_		X	$\dashv$	-		X	X	X	X	X	8	مو				
	(2)=	177		QW	V	X	X	X		T			Ҡ	7		~			10				
mw-25	7 - 1 - 1 - 1	5)4/07	1000		X		-	1		-	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$			10				
65-6	10	9/4/01	0715	-6W	Le	. 5	141	or				$\dashv$	-	-	4	-			,				
TB-125-05	0407	5/4/07	0600	TB	X	X	50053555												6				
						00-00-1800																	
					$\vdash$						$\neg$	$\dashv$			寸								
		<b>_</b>	7							$\dashv$	$\dashv$	$\dashv$	$\dashv$	-	十	$\dashv$		$\neg$	15	tota	1		
				DV 010N147115			-						_						10		dolatic surface - clus		~
			CUSTO	DY SIGNATUR		ECO	עא		Dat	-/			$\dashv$					SA	MPLE	E CONDIT	ONS		
Signature (Relinquished)		Printed Name		Company/ Agency					Tim	е				RE	CEIV	ED	CC	OOL		WAR	М		°F
Signature (Received)	0 110	Printed Name	11/16	Company/ Agency	Ĕ	N	14	<u>x</u>	Dat Tim	е	9	7,0,		CL	JSTO	DY SI	EALE	D	YES	s 🗖	NO [		
Signature (Relinquished)	th lu	Printed Name	Shill	Company/	E	w	1 A	X	Dat Tim		5.7	.07		SPEC	IAL RE	QUIR	REMEN	ITS:	7	- 3	./	0 ,	
Signature	2	Printed	T-Lun	Company	er	n 9	x		Dat Tim		= -7	200	, ]						1=		9	C	
Signature		Printed		Company/					Dat	e/													
(Relinquished) Signature		Name Printed		Agency Company/	·				Tim														
(Received)		Name		Agency					Tim													- 1	