



**Pacific Gas and
Electric
Company**

Yvonne Meeks
Manager

Environmental Remediation
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August 15, 2007

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

**Subject: Board Order R7-2007-0015
PG&E Topock Compressor Station, Needles, California
Upland In-Situ Pilot Test
DRAFT July 2007 Monitoring Letter**

Dear Mr. Perdue:

This letter is being submitted in compliance with the Waste Discharge Requirements (WDRs) issued by the Colorado River Basin Regional Water Quality Control Board (Water Board) under Board Order R7-2007-00015 for the Pacific Gas and Electric Company (PG&E) Topock Compressor Station, Upland In Situ Pilot Test.

Well installation activities began on April 23, 2007 and were completed on July 18, 2007. No injection of material occurred in the upland in situ pilot test area during the July 2007 reporting period. However, baseline sampling of the Upland In-Situ Pilot test wells was completed from July 16, 2007 to July 18, 2007. Attachments 1 through 3 present the results of this baseline sampling event.

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

If you have any questions regarding this report, please call me at (805) 234-2257.

Sincerely,

for

Yvonne Meeks
Topock Project Manager

Attachments:

Table 1: Summary of Field Parameters
Table 2: Summary of Primary Parameters
Table 3: Summary of Secondary Parameters

cc: Abdi Haile, Water Board
Cliff Raley, Water Board
Aaron Yue, DTSC (2 copies)

Table 1
Summary of Field Parameters
 PG&E Topock
 Needles, California

July Monitoring Report for the Upland Reductive Zone In-Situ Pilot Test

Location Name	Sample Date	Sample Type	Screen Interval (ft bgs)	ORP (mV)	pH	Specific Conductance (µS/cm)	Temperature (C°)	Hexavalent Chromium Field (µg/L)
PT-7S	18-Jul-07	N	130-150	-62.7	7.67	5,697	31.25	920
PT-7M	19-Jul-07	N	165-185	-40.2	7.76	7,224	33.99	1,480
PT-7D	18-Jul-07	N	197-217	-76.7	7.91	16,327	31.46	6,240
PT-8S	16-Jul-07	N	127-147	-66.4	7.90	5,389	31.07	1,670
PT-8M	18-Jul-07	N	162-182	54.9	7.18	6,698	29.67	3,740
PT-8D	16-Jul-07	N	190-210	-54.6	7.99	16,042	33.76	6,120
PT-9S	17-Jul-07	N	128-148	-61.5	7.86	4,919	33.28	2,620
PT-9M	17-Jul-07	N	162-182	-57.0	7.34	6,605	31.74	3,460
PT-9D	17-Jul-07	N	190-210	-74.8	7.87	14,027	31.46	10,050
MW-11	17-Jul-07	N	63-88	-23.7	7.56	2,176	30.15	260
MW-24A	18-Jul-07	N	104-124	-43.9	7.67	2,707	32.20	1,100
MW-24B	18-Jul-07	N	193-213	-57.9	7.86	15,371	31.40	2,340
MW-38S	17-Jul-07	N	75-95	27.2	7.52	3,306	29.00	720
MW-38D	17-Jul-07	N	166-188	-62.9	7.81	20,894	30.63	1,410
PTR-1	19-Jul-07	N	*	-50.9	7.91	8,927	31.2	201
PTR-2	18-Jul-07	N	*	-56.7	7.40	9,367	30.52	2,020

Notes:

- ft bgs Feet below ground surface
- mV Millivolts
- µS/cm Microsiemens per centimeter
- C° Degrees Celsius
- µg/L Micrograms per liter
- ORP Oxidation Reduction Potential
- N Normal
- * PTR-1 Screen: 125-160 and 175-220 ft bgs. PTR-2 Screen: 118-158 and 173-218 ft bgs.

Table 2
Summary of Primary Analytical Parameters

PG&E Topock
 Needles, California

July 2007 Monitoring Report for the Upland Reductive Zone In-Situ Pilot Test

Location Name	Sample Date	Sample Type	Screen Interval (ft bgs)	Hexavalent Chromium (µg/L)	Dissolved Chromium (µg/L)	Nitrate-N (mg/L)	Nitrite-N (mg/L)	Total Iron (µg/L)	Dissolved Iron (µg/L)	Total Manganese (µg/L)	Dissolved Manganese (µg/L)	Sulfate (mg/L)	Total Organic Carbon (mg/L)
PT-7S	18-Jul-07	N	130-150	1,200	1,260	22	<.1	6,160	<500	1.05	55.6	674	1.18
PT-7M	19-Jul-07	N	165-185	2,320	2,240	25.2	<.1	6,260	<500	1.15	31.6	1,250	1.02
PT-7D	18-Jul-07	N	197-217	7,260	7,890	7.41	<.1	<500	<500	0.054	48.3	1,140	<1
PT-8S	16-Jul-07	N	127-147	1,750	1,660	25.1	<.1	2,670	<500	0.269	25.1	869	1.35
PT-8M	18-Jul-07	N	162-182	3,960	4120	31.8	<.5	<500	<500	0.0227	15.5	1,330	1.4
PT-8D	16-Jul-07	N	190-210	6,540	7260	9.72	<.2	2,620	<500	0.186	23.5	1,110	<1
PT-9S	17-Jul-07	N	128-148	1,180	1,150	16.4	<.1	1,080	<500	0.125	29	689	1.24
PT-9M	17-Jul-07	N	162-182	2,340	2,270	24.4	<.1	<500	<500	0.0272	18.7	1,410	1.17
	17-Jul-07	FD		2,240	2,270	24.6	<.1	<500	<500	0.0323	18.2	1,410	1.21
PT-9D	17-Jul-07	N	190-210	15,700	15,600	9.3	<.2	<500	<500	0.0338	29.4	1,260	1.14
MW-11	17-Jul-07	N	63-88	321	339	8.44	<.1	<500	<500	<.01	<5	251	1.06
MW-24A	18-Jul-07	N	104-124	2,480	2,600	18.3	<.1	<500	<500	<.01	<5	372	3.82
MW-24B	18-Jul-07	N	193-213	5,540	6020	12.1	<.1	<500	<500	0.0251	22.7	1,060	<1
MW-38S	17-Jul-07	N	75-95	911	948	10.5	<.1	1,910	<500	0.234	<5	465	1.07
MW-38D	17-Jul-07	N	166-188	104	72.1	0.697	<.5	<500	<500	0.0204	10.4	724	<1
PTR-1	19-Jul-07	N	*	538	1,240	18.4	<.1	6,010	<500	0.119	92.2	983	<1
PTR-2	18-Jul-07	N	*	3,190	3,380	25.8	<.1	3,720	<500	0.0736	68.7	1,200	1.63

Notes appear on the following page.

Table 2
Summary of Primary Analytical Parameters

PG&E Topock
 Needles, California

July 2007 Monitoring Report for the Upland Reductive Zone In-Situ Pilot Test

Location Name	Sample Date	Sample Type	Screen Interval (ft bgs)	Hexavalent Chromium (µg/L)	Dissolved Chromium (µg/L)	Nitrate-N (mg/L)	Nitrite-N (mg/L)	Total Iron (µg/L)	Dissolved Iron (µg/L)	Total Manganese (µg/L)	Dissolved Manganese (µg/L)	Sulfate (mg/L)	Total Organic Carbon (mg/L)
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Notes:

- ft bgs Feet below ground surface
- mg/L Milligrams per liter
- µg/L Micrograms per liter
- < Symbol indicates not detected at or above laboratory detection limit as noted
- N Normal
- EB Equipment blank
- FB Field blank
- FD Field duplicate
- Nitrate-N Nitrate as Nitrogen
- Nitrite-N Nitrite as Nitrogen
- * PTR-1 Screen: 125-160 and 175-220 ft bgs. PTR-2 Screen: 118-158 and 173-218 ft bgs.

Table 3
Summary of Secondary Analytical Parameters

PG&E Topock
Needles, California

July 2007 Monitoring Report for the Upland Reductive Zone In-Situ Pilot Test

Location Name	Sample Date	Sample Type	Screen Interval	Dissolved Calcium (µg/L)	Dissolved Arsenic (µg/L)	Dissolved Potassium (µg/L)	Dissolved Sodium (µg/L)	Alkalinity bicarbonate (mg/L)	Alkalinity carbonate (mg/L)	Chloride-cl (mg/L)	Ortho phosphate-p (mg/L)	Sulfide (mg/L)
PT-07S	18-Jul-07	N	130-150	159,000	9.65	14,500	999,000	125	<5	1,250	<.5	<2
PT-07M	19-Jul-07	N	165-185	419,000	7.01	23,900	1,350,000	97.5	<5	1,920	<.5	<2
PT-07D	18-Jul-07	N	197-217	321,000	8.12	38,600	3,630,000	52.5	<5	5,490	<.5	<2
PT-08S	16-Jul-07	N	127-147	132,000	5.13	12,500	955,000	125	<5	1,190	<.5	<2
PT-08M	18-Jul-07	N	162-182	353,000	1.53	22,200	1,130,000	103	<5	1,510	<.5	<2
PT-08D	16-Jul-07	N	190-210	281,000	9	35,100	3,300,000	45	<5	5,360	<.5	<2
PT-09S	17-Jul-07	N	128-148	108,000	5.36	11,800	820,000	155	<5	895	<.5	<2
PT-09M	17-Jul-07	N	162-182	485,000	1.4	30,200	1,030,000	97.5	<5	1,400	<.5	<2
	17-Jul-07	FD		476,000	1.42	29,800	1,020,000	100	<5	1,400	<.5	<2
PT-09D	17-Jul-07	N	190-210	368,000	6.28	34,200	2,840,000	52.5	<5	4,350	<1	<2
MW-11	17-Jul-07	N	63-88	125,000	1.54	8,330	280,000	87.5	<5	470	<.5	<2
MW-24A	18-Jul-07	N	104-124	42,000	5.58	5,610	656,000	310	<5	410	<.5	<2
MW-24B	18-Jul-07	N	193-213	329,000	7.13	34,500	3,270,000	50	<5	4,820	<.5	<2
MW-38S	17-Jul-07	N	75-95	84,200	6.1	8,710	627,000	175	<5	680	<.5	<2
MW-38D	17-Jul-07	N	166-188	352,000	7.85	45,600	4,710,000	35	<5	7,240	<.5	<2
PTR-01	19-Jul-07	N	*	254,000	1.94	21,500	1,500,000	97.5	<5	1,940	<.5	<2
PTR-02	18-Jul-07	N	*	335,000	1.99	23,200	1,610,000	92.5	<5	2,200	<.5	<2

Notes appear on the following page.

Table 3
Summary of Secondary Analytical Parameters

PG&E Topock

Needles, California

July 2007 Monitoring Report for the Upland Reductive Zone In-Situ Pilot Test

Location Name	Sample Date	Sample Type	Screen Interval	Dissolved Calcium (µg/L)	Dissolved Arsenic (µg/L)	Dissolved Potassium (µg/L)	Dissolved Sodium (µg/L)	Alkalinity bicarbonate (mg/L)	Alkalinity carbonate (mg/L)	Chloride-cl (mg/L)	Ortho phosphate-p (mg/L)	Sulfide (mg/L)
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Notes:

ft bgs Feet below ground surface

mg/L Milligrams per liter

µg/L Micrograms per liter

< Symbol indicates not detected at or above laboratory detection limit as noted.

EB Equipment blank

FB Field blank

FD Field duplicate

N Normal

* PTR-1 Screen: 125-160 and 175-220 ft bgs. PTR-2 Screen: 118-158 and 173-218 ft bgs.

Dissolved Samples were field filtered with a 0.45 micron filter.