

Richard A. McCurdy Senior Consulting Environmental Specialist Gas Transmission -Environmental Affairs 375 N. Wiget Lane Walnut Creek, CA 94598 925. 974.4079 Internal: 583.4079 Fax: 925.974.4232 Cellular: 925.330.3148 Email: ram7@pge.com

September 5, 2006

Mr. Chris Guerre California Department of Toxic Substances Control 5796 Corporate Avenue Cypress, CA 90630-4732

Subject: April 16, April 29, and May, 2006 Waste Water Releases at PG&E's Topock Compressor Station – Results of Investigation

Dear Mr. Guerre:

This letter documents results of an investigation of facility waste water releases that occurred at PG&E's Topock Compressor Station on April 16, April 29 and May 2, 2006. The waste water that was released was non-hazardous. This report is being issued to the Department of Toxic Substances Control (DTSC) for informational purposes.

Background

April 16, 2006

The Topock Compressor Station has an on-site facility waster water system that transfers waste water to evaporation ponds, which are located one mile west of the compressor station. An accidental release of waste water occurred on April 16, 2006 from a 4-inch fiberglass pipe that connects the waste water tank at the compressor station to the evaporation ponds. The first leak detection occurred at about 7:00 am, when water was observed above ground at the southwest corner of the warehouse. After preliminary investigation, it was determined that the water was coming from the 4 inch fiberglass waste water pipeline under the warehouse. To minimize leakage, the waste water pumps were shut down.

The leaking portion of the line was removed from service on April 17, 2006. The line was cut immediately downstream of the affected area of the leak, and the remaining liquid was drained and contained. A temporary pipeline was then installed bypassing the section of leaking pipe. It consisted of approximately 140 feet of 4 inch threaded carbon steel pipe, and sections of 4 inch plastic flexible hose totaling 120 feet; all running above the ground. This action allowed the compressor station to continue to run while more permanent repairs were made. It was estimated that a total of 200 gallons of waste water were released, and that about 5 gallons ran into a nearby storm water drain that empties into Bat Cave Wash. The water did not reach the bottom of the Bat Cave Wash and the release was confined to PG&E property. The event was reported to the Colorado River Regional Water Quality Control Board and DTSC on April 18, 2006. Soil samples were taken on April 26, 2006.

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April 29, 2006

On April 29, 2006, the temporary piping installed after the April 17 release accidentally discharged about 30 gallons of waste water. The cause of the discharge was a crack in flexible hose at the oil and water separator. The station operator discovered the leak and turned the system off. The waste water ran across the pavement, across the dirt area, under a facility fence and partially down an old access road which leads into Bat Cave Wash. The entire release was confined to PG&E property. It is estimated that 25 gallons were contained within the fence line and 5 gallons traveled down the access road, but did not reach the bottom of Bat Cave Wash.

May 2, 2006

Following the April 29, 2006 leak, the cracked section of flexible hose was removed and replaced with all steel pipe on May 2, 2006. However, during a pressurized leak check of the repaired pipe, another section of flexible hose connecting the bypass piping to the original fiberglass pipe burst. The system was immediately shut down. Approximately 200 gallons of waste water were released to an excavated area where the pipe was bypassed. Another 100 gallons of waste water were pumped into temporary holding tank. This release was also on PG&E property, though just outside of fence line. All remaining flexible lines were then removed and replaced with steel pipe and fittings within the week. Soil samples were taken on May 3, 2006.

Follow up Investigation

On April 16, two waste water samples were taken from the release and the oil and water separator. These samples were taken to confirm the source of the release. Two soil samples were taken on April 26. An additional four soil samples were obtained following the May 2 release. The locations of the eight samples obtained are described below:

Sample No. 1 – Wet soil obtained on April 26, 2006 from the location of the April 16 release.

Sample No. 2 – Dry soil obtained on April 26, 2006 near the location of the April 16 release. This soil sample was taken from an area not impacted by the releases.

Sample No. 3 – Wastewater sample obtained on April 16, 2006 from the location of the April 16 release.

Sample No. 4 – Wastewater sample obtained on April 16, 2006 from the oil and water separator.

Sample No. SS1 – Soil sample obtained on May 2, 2006 from the location of the April 29 release.

Sample No. SS2 – Soil sample obtained on May 2, 2006 from the location of the April 29 release.

Sample No. SS3 – Soil sample obtained on May 2, 2006 from the location of the May 2 release.

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Sample No. SS4 – Soil sample obtained on May 3, 2006 from SS4. This soil sample was taken from an area not impacted by the releases.

A drawing showing the soil sample locations is shown in Appendix B. All samples were submitted to BC Laboratories in Bakersfield, CA. Samples 1 through 4 were submitted to the lab for analysis on April 28, 2006 and samples SS1 through SS4 were submitted on May 4, 2006. The following tests were performed: Title 22 Metals, chlorides, sulfates, pH, conductivity and total dissolved solids. A summary of test results is shown in Appendix C and copies of all laboratory test report are shown in Appendix D.

Review of Results

Test results show that none of the six soil samples exceed the California limits for Title 22 metals or exceed 10 times the Title 22 STLC limits (criteria used to determine if samples need to be tested using WET test). Metal concentrations were similar to those found in Samples 2 and 8 (soil not affected by the release). None of the EPA Region 9 Preliminary Remediation Goals for chromium, copper, nickel and zinc were exceeded. In comparison to EPA Soil Screening Levels, soil Sample No. 6 had a chromium concentration of 42 mg/kg, compared to the screening level of 40 mg/kg.

Corrective Measures

The cause of the original leak that occurred on April 16, 2006 is unknown. The most likely cause was from damage that may have taken place when the warehouse was constructed, during the period from 2003 - 2004.

Because of the history of releases associated with this wastewater line, plans are underway to conduct extensive repairs, up to and including complete replacement of the pipeline this year, subject to receiving approvals from the Havasu Refuge and BLM.

Should you have any questions or require any additional information, please contact me at (925) 974-4079.

Sincerely Kins open Rich McCurdy Richard A. McCurdy

Richard A. McCurdy Senior Consulting Environmental Specialists

Attachments: Appendix A – Photos Appendix B – Sample Locations Appendix C – Summary of Analytical Results Appendix D – Lab Reports

CC:

Ms. Karen Baker Department of Toxic Substances Control September 5, 2006 Page 4

Cypress Regional Office 5796 Corporate Ave. Cypress, CA 90630-4732

Mr. Jose Cortez California Regional Water Quality Control Board Colorado River Basin 73-720 Fred Waring Drive, Suite 100 Palm Desert, CA 92260

Mr. Tom Vandenberg California Regional Water Quality Control Board Colorado River Basin 73-720 Fred Waring Drive, Suite 100 Palm Desert, CA 92260

Ms. Julie Eakins CH2M HILL 155 Grand Ave., Suite 1000 Oakland, CA 94612

Mr. John Earl Havasu National Wildlife Refuge 317 Mesquite Ave. Needles, CA 92363

Mr. Drew Page Latham and Watkins, LLP 600 West Broadway, Suite 1800 San Diego, CA 92101

APPENDIX A PHOTOS OF AFFECTED AREA

April 16, 2006 Wastewater Release Photographs





April 16, 2006 Wastewater Release Photographs (continued)



April 16, 2006 Wastewater Release Photographs (continued)





April 29, 2006 Wastewater Release Photographs





May 2, 2006 Wastewater Release Photographs







APPENDIX B SAMPLE LOCATIONS DRAWING



BAO \\ZINFANDEL\PROJ\PACIFICGASELECTRICCO\TOPOCKPROGRAM\GIS\MXD\2006\COMPRESSORSTATION_CAD_BUILDINGS.MXD COMPRESSORSTATION_CAD_BUILDINGS.PDF 8/14/2006 15:00:42

APPENDIX C SUMMARY OF TEST RESULTS

Summary of Analytical Results Topock Compressor Station, Waste Water Releases April 16, April 29, and May 2, 2006

APPENDIX C SUMMARY OF TEST RESULTS

SAMPLE No.	1	2	3	4	5	6	7	8				
DESCRIPTION	Wet Soil near release 4/26/2006	Dry Soil near release 4/26/2006	Waste-water from pipe 4/16/2006	Waste-water from O/W 4/16/2006	Soil (SS1) 5/2/2006	Soil (SS2) 5/2/2006	Soil (SS3) 5/2/2006	Soil (SS4) 5/3/2006	Bat Cave Wash COC EPA PRGs ¹	EPA Soil Screening Level ²	CA Title 22 TTLC ³	CA Title 22 STLC ⁴
Constituent												
рН	8.25	8.41	7.59	7.5	8.06	9.11	8.26	8.57				
Chloride	530	380	1200	1100	1900	58	170	11				
Sulfate	230	1700	560	520	750	60	470	17				
Electrical conductivity @ 25 C	320	610	5000	4700	900	120	210	80				
Title 22 Metals (mg/kg)												
Antimony	ND	ND			ND	ND	ND	ND			500	15
Arsenic	2.3	4.6			4.1	2.5	4.8	1.9			500	5
Barium	140	210			140	160	170	58			10000	100
Beryllium	ND	ND			ND	ND	0.56	ND			75	0.75
Cadmium	ND	ND			ND	1.1	ND	ND			100	1
Chromium	35	20			30	42	27	23	2900	40	2500	5
Cobalt	5.3	7			6.3	7.5	6.3	7.7			8000	80
Copper	10	11			16	19	15	11	76,000	N/A	2500	25
Lead	18	6.2			11	67	9.5	6.6			1000	5
Mercury	ND	ND			ND	ND	ND	ND			20	0.2
Molybdenum	2.7	ND			5.3	7.3	3.6	ND			3500	350
Nickel	15	15			16	27	16	17	41,000	100	2000	20
Selenium	ND	ND			ND	ND	ND	ND			100	1
Silver	ND	ND			ND	ND	ND	ND			500	5
Thallium	ND	ND			ND	ND	ND	ND			700	7
Vanadium	24	34			35	39	38	34			2400	24
Zinc	78	42			30	150	58	45	100,000	10,000	5000	250

NOTES:

¹ Bat Cave Wash COC EPA PRGs- EPA Region 9 Preliminary Remedication Goals (for chemicals of concern specified for Bat Cave Wash)

² EPA Soil Screening Level-Soil screening levels to evaluate potential for migration to groundwater

³ California Title 22 TTLC- Total Threshold Limit Concentration

⁴ Califronia Title 22 STLC- Soluble Threshold Limit Concentration

APPENDIX D COPY OF LABORATORY TEST REPORTS

Date of Report: 05/24/2006

Marji Fergerson

Pacific Gas & Electric

P. O. Box 337 Needles, CA 92363 RE: Misc. Samples BC Lab Number: 0604173

Enclosed are the results of analyses for samples received by the laboratory on 04/28/06 10:24. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Shelley Taylor Client Service Rep Authorized Signature

Pacific Gas & Electric Project	: Misc. Samples		
P. O. Box 337 Project Number	EMAT		
Needles CA, 92363 Project Manager	: Marji Fergerson	Reported:	05/24/06 08:33

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	1			
0604173-01	COC Number: Project Number: Sampling Location: Sampling Point: Sampled By:	41159 Wet soil taken near emat wh Rich McCurty	Receive Date: Sampling Date: Sample Depth: Sample Matrix:	04/28/06 10:24 04/26/06 14:13 Solids	Waste Type:
0604173-02	COC Number: Project Number: Sampling Location: Sampling Point: Sampled By:	41159 Dry soil taken near emat Rich McCurty	Receive Date: Sampling Date: Sample Depth: Sample Matrix:	04/28/06 10:24 04/26/06 14:14 Solids	Waste Type:
0604173-03	COC Number: Project Number: Sampling Location: Sampling Point: Sampled By:	41159 Wastewater from emat release site Rich McCurty	Receive Date: Sampling Date: Sample Depth: Sample Matrix:	04/28/06 10:24 04/16/06 00:00 Water	Waste Type:
0604173-04	COC Number: Project Number: Sampling Location: Sampling Point: Sampled By:	41159 Wastewater from ow/s tank Rich McCurty	Receive Date: Sampling Date: Sample Depth: Sample Matrix:	04/28/06 10:24 04/16/06 00:00 Water	Waste Type:

Pacific Gas & Electric Proje	t: Misc. Samples	
P. O. Box 337 Project Number	r: EMAT	
Needles CA, 92363 Project Manag	r: Marji Fergerson Reported:	05/24/06 08:33

Chemical Analysis

BCL Sample ID:	0604173-01	Client Samp	le Name:	Wet soi	il taken ne	ear emat wh	, 4/26/200	6 2:13:00PM,	Rich McC	urty				
	-	-					Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
рН		8.25	pH Units	0.05		EPA-9040	05/11/06	05/11/06 13:20	JSM	B360	1	BPE0625		pH1:1
Chloride		530	mg/kg	5.0		EPA-300.0	05/08/06	05/09/06 07:51	NTN	IC1	1	BPE0401	1.5	
Sulfate		230	mg/kg	10		EPA-300.0	05/08/06	05/09/06 07:51	NTN	IC1	1	BPE0401	ND	

	Modified WET Test (STLC)	
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 08:33
P. O. Box 337	Project Number: EMAT	
Pacific Gas & Electric	Project: Misc. Samples	

Modified WET Test (STLC)

BCL Sample ID: 06	604173-01	Client Samp	le Name:	Wet so	il taken ne	ear emat wh	, 4/26/200	6 2:13:00PM,	Rich McC	urty				
							Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Electrical Conductivity @ 25	С	320	umhos/c	1.0		EPA-120.1	05/08/06	05/08/06 14:10	JSM	CND-3	1	BPE0413	1.0	

Pacific Gas & Electric	Project: Misc. Samples	
P. O. Box 337 Proje	ject Number: EMAT	
Needles CA, 92363 Project	ect Manager: Marji Fergerson Reported: 05/24/06 08:33	

BCL Sample ID:	0604173-01	Client Sampl	e Name:	Wet soi	il taken ne	ear emat wh	4/26/200	6 2:13:00PM,	Rich McC	urty				
		-					Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Antimony		ND	mg/kg	5.0		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	0.37	
Arsenic		2.3	mg/kg	0.50		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	0.36	
Barium		140	mg/kg	0.50		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	0.010	
Beryllium		ND	mg/kg	0.50		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	ND	
Cadmium		ND	mg/kg	0.50		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	0.005	
Chromium		35	mg/kg	0.50		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	ND	
Cobalt		5.3	mg/kg	2.5		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	0.025	
Copper		10	mg/kg	1.0		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	0.039	
Lead		18	mg/kg	2.5		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	ND	
Mercury		ND	mg/kg	0.14		EPA-7471A	05/09/06	05/11/06 12:23	PRA	CETAC1	0.87	BPE0447	ND	
Molybdenum		2.7	mg/kg	2.5		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	ND	
Nickel		15	mg/kg	0.50		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	ND	
Selenium		ND	mg/kg	1.0		EPA-6010B	05/02/06	05/09/06 10:53	JCC	TJA61E	1.96	BPE0297	0.049	A01
Silver		ND	mg/kg	0.50		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	ND	
Thallium		ND	mg/kg	5.0		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	ND	
Vanadium		24	mg/kg	0.50		EPA-6010B	05/02/06	05/08/06 14:18	JCC	TJA61E	0.98	BPE0297	ND	
Zinc		78	mg/kg	5.0		EPA-6010B	05/02/06	05/09/06 10:53	JCC	TJA61E	1.96	BPE0297	0.45	A01

Pacific Gas & Electric	Project: Misc. Samples		
P. O. Box 337	Project Number: EMAT		
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 08:33	

Chemical Analysis

BCL Sample ID:	0604173-02	Client Samp	e Name:	Dry soil	taken ne	ar emat, 4/2	6/2006 2	:14:00PM, Rich	McCurty					
	-	_		-			Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
рН		8.41	pH Units	0.05		EPA-9040	05/11/06	05/11/06 13:20	JSM	B360	1	BPE0625		pH1:1
Chloride		380	mg/kg	5.0		EPA-300.0	05/08/06	05/09/06 10:21	NTN	IC1	1	BPE0401	1.5	
Sulfate		1700	mg/kg	10		EPA-300.0	05/08/06	05/09/06 10:21	NTN	IC1	1	BPE0401	ND	

	Modified WET Test (ST		
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 08	:33
P. O. Box 337	Project Number: EMAT		
Pacific Gas & Electric	Project: Misc. Samples		
Deside Cas & Electric	D. Mine Complete		

woamea wer rest (SILC)

BCL Sample ID: 0604173-02	Client Sampl	le Name:	Dry soil taken near emat, 4/26/2006 2:14:00PM, Rich McCurty										
	-					Prep	Run		Instru-		QC	MB	Lab
Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Electrical Conductivity @ 25 C	610	umhos/c	1.0		EPA-120.1	05/08/06	05/08/06 14:10	JSM	CND-3	1	BPE0413	1.0	

Pacific Gas & Electric	Project:	Misc. Samples		
P. O. Box 337	Project Number:	EMAT		
Needles CA, 92363 P	roject Manager:	Marji Fergerson	Reported:	05/24/06 08:33

BCL Sample ID:	0604173-02	Client Sample	e Name:	Dry soil taken near emat, 4/26/2006 2:14:00PM, Rich McCurty										
		_		-			Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Antimony		ND	mg/kg	10		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	0.75	A01
Arsenic		4.6	mg/kg	1.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	0.72	A01
Barium		210	mg/kg	1.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	0.020	A01
Beryllium		ND	mg/kg	1.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	ND	A01
Cadmium		ND	mg/kg	1.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	0.010	A01
Chromium		20	mg/kg	1.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	ND	A01
Cobalt		7.0	mg/kg	5.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	0.050	A01
Copper		11	mg/kg	2.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	0.079	A01
Lead		6.2	mg/kg	5.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	ND	A01
Mercury		ND	mg/kg	0.16		EPA-7471A	05/09/06	05/11/06 12:25	PRA	CETAC1	1.04	BPE0447	ND	
Molybdenum		ND	mg/kg	5.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	ND	A01
Nickel		15	mg/kg	1.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	ND	A01
Selenium		ND	mg/kg	1.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	0.050	A01
Silver		ND	mg/kg	1.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	ND	A01
Thallium		ND	mg/kg	10		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	ND	A01
Vanadium		34	mg/kg	1.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	ND	A01
Zinc		42	mg/kg	5.0		EPA-6010B	05/05/06	05/09/06 11:17	JCC	TJA61E	1.98	BPE0297	0.46	A01

Pacific Gas & Electric Proje	ct: Misc. Samples		
P. O. Box 337 Project Numb	er: EMAT		
Needles CA, 92363 Project Manag	er: Marji Fergerson R	eported:	05/24/06 08:33

Water Analysis (General Chemistry)

BCL Sample ID:	0604173-03	Client Samp	le Name:	Wastev	Wastewater from emat release site, 4/16/2006 12:00:00AM, Rich McCurty									
	-	-					Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Chloride		1200	mg/L	2.5		EPA-300.0	05/01/06	05/01/06 17:42	EDA	IC2	5	BPE0024	ND	A01
Sulfate		560	mg/L	5.0		EPA-300.0	05/01/06	05/01/06 17:42	EDA	IC2	5	BPE0024	ND	A01
рН		7.59	pH Units	0.05		EPA-150.1	05/01/06	05/01/06 15:00	JSM	B360	1	BPE0079		
Electrical Conductivity	@ 25 C	5000	umhos/c	1.0		EPA-120.1	05/01/06	05/01/06 14:15	JSM	CND-3	1	BPE0084		

Pacific Gas & Electric Pr	oject: Misc. Samples	
P. O. Box 337 Project Nu	nber: EMAT	
Needles CA, 92363 Project Ma	ager: Marji Fergerson Reported: 05/24/06 (08:33

Water Analysis (General Chemistry)

BCL Sample ID:	0604173-04	Client Samp	le Name:	Wastev	vater from	n ow/s tank,	4/16/2006	12:00:00AM, F	Rich McCu	urty				
	-	-					Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Chloride		1100	mg/L	2.5		EPA-300.0	05/01/06	05/01/06 15:14	EDA	IC2	5	BPE0024	ND	A01
Sulfate		520	mg/L	5.0		EPA-300.0	05/01/06	05/01/06 15:14	EDA	IC2	5	BPE0024	ND	A01
рН		7.50	pH Units	0.05		EPA-150.1	05/01/06	05/01/06 15:00	JSM	B360	1	BPE0079		
Electrical Conductivity (@ 25 C	4700	umhos/c	1.0		EPA-120.1	05/01/06	05/01/06 14:15	JSM	CND-3	1	BPE0084		

Pacific Gas & Electric Project:	Misc. Samples		
P. O. Box 337 Project Number:	EMAT		
Needles CA, 92363 Project Manager:	Marji Fergerson Rep	rted:	05/24/06 08:33

Chemical Analysis

Quality Control Report - Precision & Accuracy

									Control Limits		
				Source		Spike			Percent		Percent
Constituent	Batch ID	QC Sample ID	QC Sample Type	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery Lab Quals
Chloride	BPE0401	BPE0401-DUP1	Duplicate	57.500	57.750		mg/kg	0.434		20	
		BPE0401-MS1	Matrix Spike	57.500	1133.0	1000.0	mg/kg		108		80 - 120
		BPE0401-MSD1	Matrix Spike Duplicate	57.500	1134.8	1000.0	mg/kg	0.00	108	20	80 - 120
Sulfate	BPE0401	BPE0401-DUP1	Duplicate	60.300	59.270		mg/kg	1.72		20	
		BPE0401-MS1	Matrix Spike	60.300	1105.2	1000.0	mg/kg		104		80 - 120
		BPE0401-MSD1	Matrix Spike Duplicate	60.300	1108.2	1000.0	mg/kg	0.957	105	20	80 - 120
рН	BPE0625	BPE0625-DUP1	Duplicate	8.2510	8.2640		pH Units	0.157		20	

Pacific Gas & Electric	Project: Misc. Samples	
P. O. Box 337	Project Number: EMAT	
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 08:33

Modified WET Test (STLC)

Quality Control Report - Precision & Accuracy

										Contro	ol Limits
				Source		Spike			Percent		Percent
Constituent	Batch ID	QC Sample ID	QC Sample Type	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery Lab Quals

Pacific Gas & Electric Project:	Misc. Samples	
P. O. Box 337 Project Number:	EMAT	
Needles CA, 92363 Project Manager:	Marji Fergerson Report	d: 05/24/06 08:33

Quality Control Report - Precision & Accuracy

										Control Limits		
				Source		Spike			Percent		Percent	
Constituent	Batch ID	QC Sample ID	QC Sample Type	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery Lab Quals	
Antimony	BPE0297	BPE0297-DUP1	Duplicate	ND	ND		mg/kg			20		
		BPE0297-MS1	Matrix Spike	ND	48.451	98.039	mg/kg		49.4		16 - 119	
		BPE0297-MSD1	Matrix Spike Duplicate	ND	40.691	98.039	mg/kg	17.4	41.5	20	16 - 119	
Arsenic	BPE0297	BPE0297-DUP1	Duplicate	2.2696	2.9412		mg/kg	25.8		20	Q01	
		BPE0297-MS1	Matrix Spike	2.2696	7.0343	4.9020	mg/kg		97.2		75 - 125	
		BPE0297-MSD1	Matrix Spike Duplicate	2.2696	7.1471	4.9020	mg/kg	2.34	99.5	20	75 - 125	
Barium	BPE0297	BPE0297-DUP1	Duplicate	141.08	155.59		mg/kg	9.78		20		
		BPE0297-MS1	Matrix Spike	141.08	218.48	98.039	mg/kg		78.9		75 - 125	
		BPE0297-MSD1	Matrix Spike Duplicate	141.08	227.16	98.039	mg/kg	10.7	87.8	20	75 - 125	
Beryllium	BPE0297	BPE0297-DUP1	Duplicate	0.25980	0.28431		mg/kg	9.01		20		
		BPE0297-MS1	Matrix Spike	0.25980	9.5931	9.8039	mg/kg		95.2		75 - 125	
		BPE0297-MSD1	Matrix Spike Duplicate	0.25980	9.2745	9.8039	mg/kg	3.42	92.0	20	75 - 125	
Cadmium	BPE0297	BPE0297-DUP1	Duplicate	0.16176	0.18627		mg/kg	14.1		20		
		BPE0297-MS1	Matrix Spike	0.16176	9.2206	9.8039	mg/kg		92.4		75 - 125	
		BPE0297-MSD1	Matrix Spike Duplicate	0.16176	9.0588	9.8039	mg/kg	1.75	90.8	20	75 - 125	
Chromium	BPE0297	BPE0297-DUP1	Duplicate	34.657	41.103		mg/kg	17.0		20		
		BPE0297-MS1	Matrix Spike	34.657	119.22	98.039	mg/kg		86.3		75 - 125	
		BPE0297-MSD1	Matrix Spike Duplicate	34.657	121.13	98.039	mg/kg	2.18	88.2	20	75 - 125	
Cobalt	BPE0297	BPE0297-DUP1	Duplicate	5.2892	5.6618		mg/kg	6.80		20		
		BPE0297-MS1	Matrix Spike	5.2892	94.804	98.039	mg/kg		91.3		75 - 125	
		BPE0297-MSD1	Matrix Spike Duplicate	5.2892	92.451	98.039	mg/kg	2.66	88.9	20	75 - 125	
Copper	BPE0297	BPE0297-DUP1	Duplicate	10.152	9.6127		mg/kg	5.46		20		
		BPE0297-MS1	Matrix Spike	10.152	103.09	98.039	mg/kg		94.8		75 - 125	
		BPE0297-MSD1	Matrix Spike Duplicate	10.152	101.62	98.039	mg/kg	1.59	93.3	20	75 - 125	
Lead	BPE0297	BPE0297-DUP1	Duplicate	18.387	16.868		mg/kg	8.62		20		
		BPE0297-MS1	Matrix Spike	18.387	104.12	98.039	mg/kg		87.4		75 - 125	
		BPE0297-MSD1	Matrix Spike Duplicate	18.387	112.65	98.039	mg/kg	9.48	96.1	20	75 - 125	
Molybdenum	BPE0297	BPE0297-DUP1	Duplicate	2.7353	2.8480		mg/kg	4.04		20		
		BPE0297-MS1	Matrix Spike	2.7353	91.078	98.039	mg/kg		90.1		75 - 125	
		BPE0297-MSD1	Matrix Spike Duplicate	2.7353	87.353	98.039	mg/kg	4.31	86.3	20	75 - 125	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Pacific Gas & Electric	roject: Misc. Samples		
P. O. Box 337 Project N	umber: EMAT		
Needles CA, 92363 Project M	nager: Marji Fergerson Repo	rted:	05/24/06 08:33

Quality Control Report - Precision & Accuracy

									Control Limits		
				Source		Spike			Percent		Percent
Constituent	Batch ID	QC Sample ID	QC Sample Type	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery Lab Quals
Nickel	BPE0297	BPE0297-DUP1	Duplicate	14.564	18.005		mg/kg	21.1		20	Q01
		BPE0297-MS1	Matrix Spike	14.564	104.07	98.039	mg/kg		91.3		75 - 125
		BPE0297-MSD1	Matrix Spike Duplicate	14.564	101.91	98.039	mg/kg	2.44	89.1	20	75 - 125
Selenium	BPE0297	BPE0297-DUP2	Duplicate	ND	ND		mg/kg			20	
		BPE0297-MS2	Matrix Spike	ND	3.9314	4.9020	mg/kg		80.2		75 - 125
		BPE0297-MSD2	Matrix Spike Duplicate	ND	4.3137	4.9020	mg/kg	9.27	88.0	20	75 - 125
Silver	BPE0297	BPE0297-DUP1	Duplicate	ND	ND		mg/kg			20	
		BPE0297-MS1	Matrix Spike	ND	9.6176	9.8039	mg/kg		98.1		75 - 125
		BPE0297-MSD1	Matrix Spike Duplicate	ND	9.6127	9.8039	mg/kg	0.102	98.0	20	75 - 125
Thallium	BPE0297	BPE0297-DUP1	Duplicate	ND	ND		mg/kg			20	
		BPE0297-MS1	Matrix Spike	ND	94.804	98.039	mg/kg		96.7		75 - 125
		BPE0297-MSD1	Matrix Spike Duplicate	ND	93.529	98.039	mg/kg	1.35	95.4	20	75 - 125
Vanadium	BPE0297	BPE0297-DUP1	Duplicate	24.206	27.451		mg/kg	12.6		20	
		BPE0297-MS1	Matrix Spike	24.206	117.50	98.039	mg/kg		95.2		75 - 125
		BPE0297-MSD1	Matrix Spike Duplicate	24.206	116.03	98.039	mg/kg	1.59	93.7	20	75 - 125
Zinc	BPE0297	BPE0297-DUP2	Duplicate	78.176	73.775		mg/kg	5.79		20	
		BPE0297-MS2	Matrix Spike	78.176	189.51	98.039	mg/kg		114		75 - 125
		BPE0297-MSD2	Matrix Spike Duplicate	78.176	173.43	98.039	mg/kg	15.9	97.2	20	75 - 125
Mercury	BPE0447	BPE0447-DUP1	Duplicate	ND	ND		mg/kg			20	
		BPE0447-MS1	Matrix Spike	ND	0.65414	0.71429	mg/kg		91.6		85 - 115
		BPE0447-MSD1	Matrix Spike Duplicate	ND	0.67912	0.73529	mg/kg	0.870	92.4	20	85 - 115

Pacific Gas & Electric	Project: Misc. Samples	
P. O. Box 337	Project Number: EMAT	
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 08:33

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

									Control Limits			
				Source		Spike			Percent		Percent	
Constituent	Batch ID	QC Sample ID	QC Sample Type	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery Lab Quals	
Chloride	BPE0024	BPE0024-DUP1	Duplicate	76.213	76.246		mg/L	0.0433		10		
		BPE0024-MS1	Matrix Spike	76.213	186.53	101.01	mg/L		109		80 - 120	
		BPE0024-MSD1	Matrix Spike Duplicate	76.213	186.51	101.01	mg/L	0.00	109	10	80 - 120	
Sulfate	BPE0024	BPE0024-DUP1	Duplicate	61.905	61.855		mg/L	0.0808		10		
		BPE0024-MS1	Matrix Spike	61.905	170.21	101.01	mg/L		107		80 - 120	
		BPE0024-MSD1	Matrix Spike Duplicate	61.905	170.04	101.01	mg/L	0.00	107	10	80 - 120	
pH	BPE0079	BPE0079-DUP1	Duplicate	7.4990	7.5150		pH Units	0.213		20		
Electrical Conductivity @ 25 C	BPE0084	BPE0084-DUP1	Duplicate	4960.0	4940.0		umhos/cm	0.404		10		

Pacific Gas & Electric	Project: Misc. Samples	
P. O. Box 337	Project Number: EMAT	
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 08:33

Chemical Analysis

								Control Limits				
					Spike			Percent		Percent		
Constituent	Batch ID	QC Sample ID	QC Type	Result	Level	PQL	Units	Recovery	RPD	Recovery	RPD	Lab Quals
Chloride	BPE0401	BPE0401-BS1	LCS	1047.6	1000.0	5.0	mg/kg	105		90 - 110		
Sulfate	BPE0401	BPE0401-BS1	LCS	1021.6	1000.0	10	mg/kg	102		90 - 110		
рН	BPE0625	BPE0625-BS1	LCS	7.0180	7.0000	0.05	pH Units	100		95 - 105		

Pacific Gas & Electric	Project: Misc. Samples	
P. O. Box 337	Project Number: EMAT	
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 08:33

Modified WET Test (STLC)

										<u>Control</u>	<u>_imits</u>		
					Spike			Percent		Percent			
Constituent	Batch ID	QC Sample ID	QC Type	Result	Level	PQL	Units	Recovery	RPD	Recovery	RPD	Lab Quals	
													_

Pacific Gas & Electric	Project: Misc. Samples	
P. O. Box 337	Project Number: EMAT	
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 08:33

										Control	Limits	
					Spike			Percent		Percent		
Constituent	Batch ID	QC Sample ID	QC Type	Result	Level	PQL	Units	Recovery	RPD	Recovery	RPD	Lab Quals
Antimony	BPE0297	BPE0297-BS1	LCS	1.5050	1.6059	5.0	mg/kg	93.7		75 - 125		
Arsenic	BPE0297	BPE0297-BS1	LCS	8.8550	10.070	0.50	mg/kg	87.9		75 - 125		
Barium	BPE0297	BPE0297-BS1	LCS	87.750	90.630	0.50	mg/kg	96.8		75 - 125		
Beryllium	BPE0297	BPE0297-BS1	LCS	5.2550	5.8300	0.50	mg/kg	90.1		75 - 125		
Cadmium	BPE0297	BPE0297-BS1	LCS	5.2850	5.3530	0.50	mg/kg	98.7		75 - 125		
Chromium	BPE0297	BPE0297-BS1	LCS	12.680	13.356	0.50	mg/kg	94.9		75 - 125		
Cobalt	BPE0297	BPE0297-BS1	LCS	8.7050	8.6390	2.5	mg/kg	101		75 - 125		
Copper	BPE0297	BPE0297-BS1	LCS	11.690	13.727	1.0	mg/kg	85.2		75 - 125		
Lead	BPE0297	BPE0297-BS1	LCS	9.8150	9.3810	2.5	mg/kg	105		75 - 125		
Molybdenum	BPE0297	BPE0297-BS1	LCS	5.0450	5.8300	2.5	mg/kg	86.5		75 - 125		
Nickel	BPE0297	BPE0297-BS1	LCS	10.670	11.183	0.50	mg/kg	95.4		75 - 125		
Selenium	BPE0297	BPE0297-BS2	LCS	5.1600	4.6746	0.50	mg/kg	110		75 - 125		
Silver	BPE0297	BPE0297-BS1	LCS	5.0650	5.1251	0.50	mg/kg	98.8		75 - 125		
Thallium	BPE0297	BPE0297-BS1	LCS	5.1550	4.9767	5.0	mg/kg	104		75 - 125		
Vanadium	BPE0297	BPE0297-BS1	LCS	27.455	28.249	0.50	mg/kg	97.2		75 - 125		
Zinc	BPE0297	BPE0297-BS2	LCS	38.160	34.291	2.5	mg/kg	111		75 - 125		
Mercury	BPE0447	BPE0447-BS1	LCS	1.2308	1.5000	0.14	mg/kg	82.1		75 - 125		

Pacific Gas & Electric	Project: Misc. Samples		
P. O. Box 337	Project Number: EMAT		
Needles CA, 92363	Project Manager: Marji Fergerson	Reported:	05/24/06 08:33

Water Analysis (General Chemistry)

										Control	Limits	
					Spike			Percent		Percent		
Constituent	Batch ID	QC Sample ID	QC Type	Result	Level	PQL	Units	Recovery	RPD	Recovery	RPD	Lab Quals
Chloride	BPE0024	BPE0024-BS1	LCS	109.09	100.00	0.50	mg/L	109		90 - 110		
Sulfate	BPE0024	BPE0024-BS1	LCS	105.95	100.00	1.0	mg/L	106		90 - 110		
рН	BPE0079	BPE0079-BS1	LCS	7.0560	7.0000	0.05	pH Units	101		95 - 105		
Electrical Conductivity @ 25 C	BPE0084	BPE0084-BS1	LCS	314.00	303.00	1.0	umhos/cm	104		90 - 110		

Pacific Gas & Electric Project:	Misc. Samples		
P. O. Box 337 Project Number:	EMAT		
Needles CA, 92363 Project Manager:	Marji Fergerson Report	d:	05/24/06 08:33

Chemical Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Chloride	BPE0401	BPE0401-BLK1	1.5100	mg/kg	5.0	0.33	
Sulfate	BPE0401	BPE0401-BLK1	ND	mg/kg	10	0.79	

Pacific Gas & Electric	Project:	Misc. Samples		
P. O. Box 337	Project Number:	EMAT		
Needles CA, 92363	Project Manager:	Marji Fergerson	Reported:	05/24/06 08:33

Modified WET Test (STLC)

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Electrical Conductivity @ 25 C	BPE0413	BPE0413-BLK1	1.0000	umhos/cm	1.0	1.0	

Pacific Gas & Electric	Project: Misc. Samples		
P. O. Box 337	Project Number: EMAT		
Needles CA, 92363	Project Manager: Marij Fergerson	Reported:	05/24/06 08:33

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Antimony	BPE0297	BPE0297-BLK1	0.38000	mg/kg	5.0	0.36	
Arsenic	BPE0297	BPE0297-BLK1	ND	mg/kg	0.50	0.37	
Barium	BPE0297	BPE0297-BLK1	ND	mg/kg	0.50	0.067	
Beryllium	BPE0297	BPE0297-BLK1	ND	mg/kg	0.50	0.022	
Cadmium	BPE0297	BPE0297-BLK1	ND	mg/kg	0.50	0.052	
Chromium	BPE0297	BPE0297-BLK1	ND	mg/kg	0.50	0.17	
Cobalt	BPE0297	BPE0297-BLK1	ND	mg/kg	2.5	0.13	
Copper	BPE0297	BPE0297-BLK1	ND	mg/kg	1.0	0.30	
Lead	BPE0297	BPE0297-BLK1	ND	mg/kg	2.5	0.29	
Molybdenum	BPE0297	BPE0297-BLK1	ND	mg/kg	2.5	0.12	
Nickel	BPE0297	BPE0297-BLK1	ND	mg/kg	0.50	0.25	
Selenium	BPE0297	BPE0297-BLK2	ND	mg/kg	0.50	0.39	
Silver	BPE0297	BPE0297-BLK1	ND	mg/kg	0.50	0.049	
Thallium	BPE0297	BPE0297-BLK1	ND	mg/kg	5.0	0.42	
Vanadium	BPE0297	BPE0297-BLK1	ND	mg/kg	0.50	0.064	
Zinc	BPE0297	BPE0297-BLK2	ND	mg/kg	2.5	0.31	
Mercury	BPE0447	BPE0447-BLK1	ND	mg/kg	0.16	0.041	

Pacific Gas & Electric Project	Misc. Samples	
P. O. Box 337 Project Number	EMAT	
Needles CA, 92363 Project Manager	: Marji Fergerson Reporte	I: 05/24/06 08:33

Water Analysis (General Chemistry)

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Chloride	BPE0024	BPE0024-BLK1	ND	mg/L	0.50	0.037	
Sulfate	BPE0024	BPE0024-BLK1	ND	mg/L	1.0	0.11	

Pacific Gas P. O. Box 33 Needles CA	& Electric 337 Project N A, 92363 Project N	Project umber anager	: Misc. Samples : EMAT : Marji Fergerson	Reported:	05/24/06 08:33
	Notes and Definitions				
Q03	Matrix spike recovery(s) is(are) not within the control limits.				
Q02	Matrix spike precision is not within the control limits.				
Q01	Sample precision is not within the control limits.				
pH1:1	pH result reported on a 1:1 dilution of sample				
J	Estimated value				
A02	The difference between duplicate readings is less than the PQL.				
A01	PQL's and MDL's are raised due to sample dilution.				
ND	Analyte NOT DETECTED at or above the reporting limit				
dry	Sample results reported on a dry weight basis				
RPD	Relative Percent Difference				

Date of Report: 05/24/2006

Marji Fergerson

Pacific Gas & Electric

P. O. Box 337 Needles, CA 92363 RE: Misc. Samples BC Lab Number: 0604432

Enclosed are the results of analyses for samples received by the laboratory on 05/04/06 10:32. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Shelley Taylor Client Service Rep Authorized Signature

Pacific Gas & E P. O. Box 337 Needles CA, 92	Electric		Project: Misc. Samples Project Number: Topock Spill Project Manager: Marji Fergerson			Reported:	05/24/06 12:56
			Laboratory / Client Sample Cross	Reference			
Laboratory	Client Sample Informa	tion					
0604432-01	COC Number:	41156	Receive Da	e: 05/04/06 10:32	Waste Type:		

0604432-01	COC Number:	41156	Receive Date:	05/04/06 10:32	Waste Type:
	Project Number:		Sampling Date:	05/02/06 15:15	
	Sampling Location:		Sample Depth:		
	Sampling Point:	Topock Spill 4/29/06 SS1	Sample Matrix:	Solids	
	Sampled By:	Mike Bennett			
0604432-02	COC Number:	41156	Receive Date:	05/04/06 10:32	Waste Type:
	Project Number:		Sampling Date:	05/02/06 15:20	
	Sampling Location:		Sample Depth:		
	Sampling Point:	Topock Spill 4/29/06 SS2	Sample Matrix:	Solids	
	Sampled By:	Mike Bennett			
0604432-03	COC Number:	41156	Receive Date:	05/04/06 10:32	Waste Type:
	Project Number:		Sampling Date:	05/02/06 15:30	
	Sampling Location:		Sample Depth:		
	Sampling Point:	Topock Spill 5/2/06 SS3	Sample Matrix:	Solids	
	Sampled By:	Mike Bennett			
0604432-04	COC Number:	41156	Receive Date:	05/04/06 10:32	Waste Type:
	Project Number:		Sampling Date:	05/03/06 05:30	
	Sampling Location:		Sample Depth:		
	Sampling Point:	Topock Spill 4/29/06 SS4	Sample Matrix:	Solids	
	Sampled By:	Mike Bennett	•		

Pacific Gas & Electric Project:	Misc. Samples	
P. O. Box 337 Project Number:	Topock Spill	
Needles CA, 92363 Project Manager:	Marji Fergerson Reported	: 05/24/06 12:56

Chemical Analysis

BCL Sample ID:	0604432-01	Client Samp	le Name:	Topock	Topock Spill 4/29/06 SS1, 5/2/2006 3:15:00PM, Mike Bennett									
	-	_		-			Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
рН		8.06	pH Units	0.05		EPA-9040	05/15/06	05/15/06 16:05	JSM	B360	1	BPE0757		pH1:1
Chloride		1900	mg/kg	5.0		EPA-300.0	05/08/06	05/09/06 05:43	NTN	IC1	1	BPE0401	1.5	
Sulfate		750	mg/kg	10		EPA-300.0	05/08/06	05/09/06 05:43	NTN	IC1	1	BPE0401	ND	

Pacific Gas & ElectricProjectMisc. SamplesP. O. Box 337Project NumberTopock SpillNeedles CA, 92363Project ManagerMarji FergersonReported: 05/24/06 12:56			Teet (CTL C)		
Pacific Gas & ElectricProject:Misc. SamplesP. O. Box 337Project Number:Topock Spill	Needles CA, 92363	Project Manager:	Marji Fergerson	Reported:	05/24/06 12:56
Pacific Gas & Electric Project: Misc. Samples	P. O. Box 337	Project Number:	Topock Spill		
	Pacific Gas & Electric	Project:	Misc. Samples		

Modified WET Test (STLC)

BCL Sample ID:	0604432-01	Client Sampl	e Name:	Topock	Topock Spill 4/29/06 SS1, 5/2/2006 3:15:00PM, Mike Bennett									
	-	-					Prep	Run Instru-				QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Electrical Conductivity	@ 25 C	900	umhos/c	1.0		EPA-120.1	05/11/06	05/11/06 14:00	JSM	CND-3	1	BPE0623	2.0	

Pacific Gas & Electric Project:	Misc. Samples		
P. O. Box 337 Project Number:	Topock Spill		
Needles CA, 92363 Project Manager:	Marji Fergerson	Reported:	05/24/06 12:56

BCL Sample ID:	CL Sample ID: 0604432-01 Client Sample Name: Topock Spill 4/29/06 SS1, 5/2/2006 3:15:00PM, Mike Benne							Bennett						
	-						Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Antimony		ND	mg/kg	5.0		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	ND	
Arsenic		4.1	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	ND	
Barium		140	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	0.025	
Beryllium		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	0.054	
Cadmium		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	0.010	
Chromium		30	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	ND	
Cobalt		6.3	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	ND	
Copper		16	mg/kg	1.0		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	ND	
Lead		11	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	ND	
Mercury		ND	mg/kg	0.13		EPA-7471A	05/15/06	05/22/06 15:26	PRA	CETAC1	0.80	BPE0694	ND	
Molybdenum		5.3	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	ND	
Nickel		16	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	ND	
Selenium		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	ND	
Silver		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	ND	
Thallium		ND	mg/kg	5.0		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	0.37	
Vanadium		35	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	ND	
Zinc		60	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 12:39	JCC	TJA61E	0.98	BPE0440	1.0	

Pacific Gas & Electric Project:	Misc. Samples	
P. O. Box 337 Project Number:	Topock Spill	
Needles CA, 92363 Project Manager:	Marji Fergerson Reported	: 05/24/06 12:56

Chemical Analysis

BCL Sample ID:	0604432-02	Client Samp	le Name:	Topock	Topock Spill 4/29/06 SS2, 5/2/2006 3:20:00PM, Mike Bennett									
		_		-			Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
рН		9.11	pH Units	0.05		EPA-9040	05/15/06	05/15/06 16:05	JSM	B360	1	BPE0757		pH1:1
Chloride		58	mg/kg	5.0		EPA-300.0	05/08/06	05/09/06 06:01	NTN	IC1	1	BPE0401	1.5	
Sulfate		60	mg/kg	10		EPA-300.0	05/08/06	05/09/06 06:01	NTN	IC1	1	BPE0401	ND	

Pacific Gas & ElectricProjectMisc. SamplesP. O. Box 337Project Number:Topock SpillNeedles CA, 92363Project Manager:Marji FergersonReported:05/24/06 12:56			
Pacific Gas & ElectricProject:Misc. SamplesP. O. Box 337Project Number:Topock Spill	Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 12:56
Pacific Gas & Electric Project: Misc. Samples	P. O. Box 337	Project Number: Topock Spill	
	Pacific Gas & Electric	Project: Misc. Samples	

Modified WET Test (STLC)

BCL Sample ID: 06	04432-02	Client Samp	e Name:	Topock	Spill 4/29	9/06 SS2, 5/	2/2006 3	:20:00PM, Mike	Bennett					
				-			Prep	Run Instru-				QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Electrical Conductivity @ 25 0	2	120	umhos/c	1.0		EPA-120.1	05/11/06	05/11/06 14:00	JSM	CND-3	1	BPE0623	2.0	

Pacific Gas & Electric Project:	Misc. Samples		
P. O. Box 337 Project Number:	Topock Spill		
Needles CA, 92363 Project Manager:	Marji Fergerson	Reported:	05/24/06 12:56

BCL Sample ID:	CL Sample ID: 0604432-02 Client Sample Name: Topock Spill 4/29/06 SS2, 5/2/2006 3:20:00PM, Mike Benne							Bennett						
							Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Antimony		ND	mg/kg	5.0		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	ND	
Arsenic		2.5	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	ND	
Barium		160	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	0.025	
Beryllium		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	0.054	
Cadmium		1.1	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	0.010	
Chromium		42	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	ND	
Cobalt		7.5	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	ND	
Copper		19	mg/kg	1.0		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	ND	
Lead		67	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	ND	
Mercury		ND	mg/kg	0.14		EPA-7471A	05/15/06	05/22/06 15:29	PRA	CETAC1	0.87	BPE0694	ND	
Molybdenum		7.3	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	ND	
Nickel		27	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	ND	
Selenium		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	ND	
Silver		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	ND	
Thallium		ND	mg/kg	5.0		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	0.37	
Vanadium		39	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	ND	
Zinc		150	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 13:24	JCC	TJA61E	0.98	BPE0440	1.0	

Pacific Gas & Electric Project:	Misc. Samples
P. O. Box 337 Project Number.	Topock Spill
Needles CA, 92363 Project Manager	Marji Fergerson Reported: 05/24/06 12:56

Chemical Analysis

BCL Sample ID:	0604432-03	Client Samp	le Name:	Topock	Spill 5/2/	06 SS3, 5/2	/2006 3:3							
	-			-			Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
рН		8.26	pH Units	0.05		EPA-9040	05/15/06	05/15/06 16:05	JSM	B360	1	BPE0757		pH1:1
Chloride		170	mg/kg	5.0		EPA-300.0	05/08/06	05/09/06 07:15	NTN	IC1	1	BPE0401	1.5	
Sulfate		470	mg/kg	10		EPA-300.0	05/08/06	05/09/06 07:15	NTN	IC1	1	BPE0401	ND	

Needles CA, 92363Project Manager:Marji FergersonReported:05/24/06 12:56	
P. O. Box 337 Project Number: Topock Spill	
Pacific Gas & Electric Project: Misc. Samples	

Modified WET Test (STLC)

BCL Sample ID:	0604432-03	Client Sampl	e Name:	Topock Spill 5/2/06 SS3, 5/2/2006 3:30:00PM, Mike Bennett										
							Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Electrical Conductivity	@ 25 C	210	umhos/c	1.0		EPA-120.1	05/11/06	05/11/06 14:00	JSM	CND-3	1	BPE0623	2.0	

Pacific Gas & Electric	Project: Misc. Samples
P. O. Box 337 Project	ct Number: Topock Spill
Needles CA, 92363 Project	t Manager: Marji Fergerson Reported: 05/24/06 12:56

BCL Sample ID:	0604432-03	Client Sampl	e Name:	Topock	Spill 5/2/	'06 SS3, 5/2/	2006 3:3	0:00PM, Mike I	Bennett					
	-						Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Antimony		ND	mg/kg	5.0		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	ND	
Arsenic		4.8	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	ND	
Barium		170	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	0.024	
Beryllium		0.56	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	0.053	
Cadmium		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	0.010	
Chromium		27	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	ND	
Cobalt		6.3	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	ND	
Copper		15	mg/kg	1.0		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	ND	
Lead		9.5	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	ND	
Mercury		ND	mg/kg	0.16		EPA-7471A	05/15/06	05/22/06 15:31	PRA	CETAC1	1.01	BPE0694	ND	
Molybdenum		3.6	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	ND	
Nickel		16	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	ND	
Selenium		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	ND	
Silver		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	ND	
Thallium		ND	mg/kg	5.0		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	0.37	
Vanadium		38	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	ND	
Zinc		58	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 13:29	JCC	TJA61E	0.97	BPE0440	1.0	

Pacific Gas & Electric Project:	Misc. Samples	
P. O. Box 337 Project Number:	Topock Spill	
Needles CA, 92363 Project Manager:	Marji Fergerson Reported	: 05/24/06 12:56

Chemical Analysis

BCL Sample ID:	0604432-04	Client Samp	e Name:	Topock	Topock Spill 4/29/06 SS4, 5/3/2006 5:30:00AM, Mike Bennett									
	-			-			Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
рН		8.57	pH Units	0.05		EPA-9040	05/15/06	05/15/06 16:05	JSM	B360	1	BPE0757		pH1:1
Chloride		11	mg/kg	5.0		EPA-300.0	05/08/06	05/09/06 07:33	NTN	IC1	1	BPE0401	1.5	
Sulfate		17	mg/kg	10		EPA-300.0	05/08/06	05/09/06 07:33	NTN	IC1	1	BPE0401	ND	

Needles CA, 92363	Project Manager:	Marji Fergerson	Reported:	05/24/06 12:56
P. O. Box 337	Project Number:	Topock Spill		
Pacific Gas & Electric	Project:	Misc. Samples		

Modified WET Test (STLC)

BCL Sample ID:	0604432-04	Client Samp	e Name:	Topock	Topock Spill 4/29/06 SS4, 5/3/2006 5:30:00AM, Mike Bennett									
	-						Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Electrical Conductivity	@ 25 C	80	umhos/c	1.0		EPA-120.1	05/11/06	05/11/06 14:00	JSM	CND-3	1	BPE0623	2.0	

Pacific Gas & Electric	Project: Misc. Samples
P. O. Box 337 Project	ct Number: Topock Spill
Needles CA, 92363 Project	t Manager: Marji Fergerson Reported: 05/24/06 12:56

BCL Sample ID:	0604432-04	Client Sampl	e Name:	Topock	Spill 4/29	9/06 SS4, 5/3	3/2006 5	:30:00AM, Mike	Bennett					
		-					Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Antimony		ND	mg/kg	5.0		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	ND	
Arsenic		1.9	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	ND	
Barium		58	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	0.024	
Beryllium		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	0.053	
Cadmium		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	0.010	
Chromium		26	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	ND	
Cobalt		7.7	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	ND	
Copper		11	mg/kg	1.0		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	ND	
Lead		6.6	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	ND	
Mercury		ND	mg/kg	0.14		EPA-7471A	05/15/06	05/22/06 15:33	PRA	CETAC1	0.89	BPE0694	ND	
Molybdenum		ND	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	ND	
Nickel		17	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	ND	
Selenium		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	ND	
Silver		ND	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	ND	
Thallium		ND	mg/kg	5.0		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	0.37	
Vanadium		34	mg/kg	0.50		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	ND	
Zinc		45	mg/kg	2.5		EPA-6010B	05/09/06	05/10/06 13:33	JCC	TJA61E	0.97	BPE0440	1.0	

Pacific Gas & Electric Project:	Misc. Samples		
P. O. Box 337 Project Number:	Topock Spill		
Needles CA, 92363 Project Manager:	Marji Fergerson	Reported:	05/24/06 12:56

Chemical Analysis

Quality Control Report - Precision & Accuracy

									Control Limits			
				Source		Spike			Percent		Percent	
Constituent	Batch ID	QC Sample ID	QC Sample Type	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery Lab Quals	
Chloride	BPE0401	BPE0401-DUP1	Duplicate	57.500	57.750		mg/kg	0.434		20		
		BPE0401-MS1	Matrix Spike	57.500	1133.0	1000.0	mg/kg		108		80 - 120	
		BPE0401-MSD1	Matrix Spike Duplicate	57.500	1134.8	1000.0	mg/kg	0.00	108	20	80 - 120	
Sulfate	BPE0401	BPE0401-DUP1	Duplicate	60.300	59.270		mg/kg	1.72		20		
		BPE0401-MS1	Matrix Spike	60.300	1105.2	1000.0	mg/kg		104		80 - 120	
		BPE0401-MSD1	Matrix Spike Duplicate	60.300	1108.2	1000.0	mg/kg	0.957	105	20	80 - 120	
рН	BPE0757	BPE0757-DUP1	Duplicate	9.1130	9.1570		pH Units	0.482		20		

Pacific Gas & Electric	Project: Misc. Samples	
P. O. Box 337	Project Number: Topock Spill	
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 12:56

Modified WET Test (STLC)

Quality Control Report - Precision & Accuracy

									Control Limits				
				Source		Spike			Percent		Percent		
Constituent	Batch ID	QC Sample ID	QC Sample Type	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery Lab Quals		

Pacific Gas & Electric Project	Misc. Samples		
P. O. Box 337 Project Number	Topock Spill		
Needles CA, 92363 Project Manager	Marji Fergerson	Reported:	05/24/06 12:56

Quality Control Report - Precision & Accuracy

										Control Limits			
				Source		Spike	Units		Percent		Percent		
Constituent	Batch ID	QC Sample ID	QC Sample Type	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Lab Quals	
Antimony	BPE0440	BPE0440-DUP1	Duplicate	0.42157	0.84314		mg/kg	66.7		20		A02	
		BPE0440-MS1	Matrix Spike	0.42157	40.270	98.039	mg/kg		40.6		16 - 119		
		BPE0440-MSD1	Matrix Spike Duplicate	0.42157	33.775	98.039	mg/kg	17.7	34.0	20	16 - 119		
Arsenic	BPE0440	BPE0440-DUP1	Duplicate	4.0784	3.1716		mg/kg	25.0		20		Q01	
		BPE0440-MS1	Matrix Spike	4.0784	8.3775	4.9020	mg/kg		87.7		75 - 125		
		BPE0440-MSD1	Matrix Spike Duplicate	4.0784	7.8186	4.9020	mg/kg	13.9	76.3	20	75 - 125		
Barium	BPE0440	BPE0440-DUP1	Duplicate	142.60	155.00		mg/kg	8.33		20			
		BPE0440-MS1	Matrix Spike	142.60	270.88	98.039	mg/kg		131		75 - 125	Q03	
		BPE0440-MSD1	Matrix Spike Duplicate	142.60	234.31	98.039	mg/kg	33.4	93.5	20	75 - 125	Q02	
Beryllium	BPE0440	BPE0440-DUP1	Duplicate	0.38235	0.36275		mg/kg	5.26		20			
		BPE0440-MS1	Matrix Spike	0.38235	10.078	9.8039	mg/kg		98.9		75 - 125		
		BPE0440-MSD1	Matrix Spike Duplicate	0.38235	10.059	9.8039	mg/kg	0.202	98.7	20	75 - 125		
Cadmium	BPE0440	BPE0440-DUP1	Duplicate	0.39216	0.47059		mg/kg	18.2		20			
		BPE0440-MS1	Matrix Spike	0.39216	9.9461	9.8039	mg/kg		97.5		75 - 125		
		BPE0440-MSD1	Matrix Spike Duplicate	0.39216	10.039	9.8039	mg/kg	0.919	98.4	20	75 - 125		
Chromium	BPE0440	BPE0440-DUP1	Duplicate	29.525	29.377		mg/kg	0.503		20			
		BPE0440-MS1	Matrix Spike	29.525	122.55	98.039	mg/kg		94.9		75 - 125		
		BPE0440-MSD1	Matrix Spike Duplicate	29.525	117.99	98.039	mg/kg	5.08	90.2	20	75 - 125		
Cobalt	BPE0440	BPE0440-DUP1	Duplicate	6.2647	5.6373		mg/kg	10.5		20			
		BPE0440-MS1	Matrix Spike	6.2647	97.892	98.039	mg/kg		93.5		75 - 125		
		BPE0440-MSD1	Matrix Spike Duplicate	6.2647	98.725	98.039	mg/kg	0.852	94.3	20	75 - 125		
Copper	BPE0440	BPE0440-DUP1	Duplicate	15.672	15.676		mg/kg	0.0255		20			
		BPE0440-MS1	Matrix Spike	15.672	113.28	98.039	mg/kg		99.6		75 - 125		
		BPE0440-MSD1	Matrix Spike Duplicate	15.672	110.98	98.039	mg/kg	2.44	97.2	20	75 - 125		
Lead	BPE0440	BPE0440-DUP1	Duplicate	10.985	13.676		mg/kg	21.8		20		Q01	
		BPE0440-MS1	Matrix Spike	10.985	103.38	98.039	mg/kg		94.2		75 - 125		
		BPE0440-MSD1	Matrix Spike Duplicate	10.985	105.44	98.039	mg/kg	2.20	96.3	20	75 - 125		
Molybdenum	BPE0440	BPE0440-DUP1	Duplicate	5.2941	5.8333		mg/kg	9.69		20			
		BPE0440-MS1	Matrix Spike	5.2941	95.245	98.039	mg/kg		91.8		75 - 125		
		BPE0440-MSD1	Matrix Spike Duplicate	5.2941	94.363	98.039	mg/kg	0.985	90.9	20	75 - 125		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Pacific Gas & Electric Project	Misc. Samples		
P. O. Box 337 Project Number	Topock Spill		
Needles CA, 92363 Project Manager	Marji Fergerson R	eported:	05/24/06 12:56

Quality Control Report - Precision & Accuracy

										Contro	ol Limits
				Source		Spike			Percent		Percent
Constituent	Batch ID	QC Sample ID	QC Sample Type	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery Lab Quals
Nickel	BPE0440	BPE0440-DUP1	Duplicate	15.995	15.642		mg/kg	2.23		20	
		BPE0440-MS1	Matrix Spike	15.995	108.68	98.039	mg/kg		94.5		75 - 125
		BPE0440-MSD1	Matrix Spike Duplicate	15.995	108.82	98.039	mg/kg	0.211	94.7	20	75 - 125
Selenium	BPE0440	BPE0440-DUP1	Duplicate	ND	ND		mg/kg			20	
		BPE0440-MS1	Matrix Spike	ND	4.7353	4.9020	mg/kg		96.6		75 - 125
		BPE0440-MSD1	Matrix Spike Duplicate	ND	4.5882	4.9020	mg/kg	3.15	93.6	20	75 - 125
Silver	BPE0440	BPE0440-DUP1	Duplicate	ND	ND		mg/kg			20	
		BPE0440-MS1	Matrix Spike	ND	9.3235	9.8039	mg/kg		95.1		75 - 125
		BPE0440-MSD1	Matrix Spike Duplicate	ND	9.4265	9.8039	mg/kg	1.15	96.2	20	75 - 125
Thallium	BPE0440	BPE0440-DUP1	Duplicate	0.46569	ND		mg/kg			20	
		BPE0440-MS1	Matrix Spike	0.46569	93.873	98.039	mg/kg		95.3		75 - 125
		BPE0440-MSD1	Matrix Spike Duplicate	0.46569	95.441	98.039	mg/kg	1.66	96.9	20	75 - 125
Vanadium	BPE0440	BPE0440-DUP1	Duplicate	34.877	32.181		mg/kg	8.04		20	
		BPE0440-MS1	Matrix Spike	34.877	131.13	98.039	mg/kg		98.2		75 - 125
		BPE0440-MSD1	Matrix Spike Duplicate	34.877	126.81	98.039	mg/kg	4.58	93.8	20	75 - 125
Zinc	BPE0440	BPE0440-DUP1	Duplicate	60.196	62.745		mg/kg	4.15		20	
		BPE0440-MS1	Matrix Spike	60.196	160.54	98.039	mg/kg		102		75 - 125
		BPE0440-MSD1	Matrix Spike Duplicate	60.196	161.67	98.039	mg/kg	1.94	104	20	75 - 125
Mercury	BPE0694	BPE0694-DUP1	Duplicate	ND	ND		mg/kg			20	
		BPE0694-MS1	Matrix Spike	ND	0.62955	0.75758	mg/kg		83.1		85 - 115 Q03
		BPE0694-MSD1	Matrix Spike Duplicate	ND	0.62106	0.75758	mg/kg	1.33	82.0	20	85 - 115 Q03

Pacific Gas & Electric	Project: Misc. Samples	
P. O. Box 337	Project Number: Topock Spill	
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 12:56

Chemical Analysis

									Control Limits				
					Spike			Percent		Percent			
Constituent	Batch ID	QC Sample ID	QC Type	Result	Level	PQL	Units	Recovery	RPD	Recovery	RPD	Lab Quals	
Chloride	BPE0401	BPE0401-BS1	LCS	1047.6	1000.0	5.0	mg/kg	105		90 - 110			
Sulfate	BPE0401	BPE0401-BS1	LCS	1021.6	1000.0	10	mg/kg	102		90 - 110			
рН	BPE0757	BPE0757-BS1	LCS	7.0580	7.0000	0.05	pH Units	101		95 - 105			

Pacific Gas & Electric	Project: Misc. Samples	
P. O. Box 337	Project Number: Topock Spill	
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 12:56

Modified WET Test (STLC)

							<u>Control Limits</u>						
					Spike			Percent		Percent			
Constituent	Batch ID	QC Sample ID	QC Type	Result	Level	PQL	Units	Recovery	RPD	Recovery	RPD	Lab Quals	

Pacific Gas & Electric	Project: Misc. Samples	
P. O. Box 337	Project Number: Topock Spill	
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 12:56

								Control Limits				
					Spike			Percent		Percent		
Constituent	Batch ID	QC Sample ID	QC Type	Result	Level	PQL	Units	Recovery	RPD	Recovery	RPD	Lab Quals
Antimony	BPE0440	BPE0440-BS1	LCS	1.2550	1.6665	5.0	mg/kg	75.3		75 - 125		
Arsenic	BPE0440	BPE0440-BS1	LCS	9.6150	10.450	0.50	mg/kg	92.0		75 - 125		
Barium	BPE0440	BPE0440-BS1	LCS	90.000	94.050	0.50	mg/kg	95.7		75 - 125		
Beryllium	BPE0440	BPE0440-BS1	LCS	5.5700	6.0500	0.50	mg/kg	92.1		75 - 125		
Cadmium	BPE0440	BPE0440-BS1	LCS	5.5600	5.5550	0.50	mg/kg	100		75 - 125		
Chromium	BPE0440	BPE0440-BS1	LCS	12.235	13.860	0.50	mg/kg	88.3		75 - 125		
Cobalt	BPE0440	BPE0440-BS1	LCS	8.9700	8.9650	2.5	mg/kg	100		75 - 125		
Copper	BPE0440	BPE0440-BS1	LCS	11.890	14.245	1.0	mg/kg	83.5		75 - 125		
Lead	BPE0440	BPE0440-BS1	LCS	10.205	9.7350	2.5	mg/kg	105		75 - 125		
Molybdenum	BPE0440	BPE0440-BS1	LCS	5.2100	6.0500	2.5	mg/kg	86.1		75 - 125		
Nickel	BPE0440	BPE0440-BS1	LCS	10.570	11.605	0.50	mg/kg	91.1		75 - 125		
Selenium	BPE0440	BPE0440-BS1	LCS	4.8750	4.8510	0.50	mg/kg	100		75 - 125		
Silver	BPE0440	BPE0440-BS1	LCS	5.0250	5.3185	0.50	mg/kg	94.5		75 - 125		
Thallium	BPE0440	BPE0440-BS1	LCS	4.7950	5.1645	5.0	mg/kg	92.8		75 - 125		
Vanadium	BPE0440	BPE0440-BS1	LCS	27.420	29.315	0.50	mg/kg	93.5		75 - 125		
Zinc	BPE0440	BPE0440-BS1	LCS	34.845	35.585	2.5	mg/kg	97.9		75 - 125		
Mercury	BPE0694	BPE0694-BS1	LCS	1.1469	1.5000	0.16	mg/kg	76.5		75 - 125		

Pacific Gas & Electric	Project: Misc. Samples	
P. O. Box 337	Project Number: Topock Spill	
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 12:56

Chemical Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Chloride	BPE0401	BPE0401-BLK1	1.5100	mg/kg	5.0	0.33	
Sulfate	BPE0401	BPE0401-BLK1	ND	mg/kg	10	0.79	

Pacific Gas & Electric Project:	Misc. Samples	
P. O. Box 337 Project Number:	Topock Spill	
Needles CA, 92363 Project Manager:	Marji Fergerson Repor	d: 05/24/06 12:56

Modified WET Test (STLC)

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Electrical Conductivity @ 25 C	BPE0623	BPE0623-BLK1	2.0000	umhos/cm	1.0	1.0	

Pacific Gas & Electric	Project: Misc. Samples	
P. O. Box 337	Project Number: Topock Spill	
Needles CA, 92363	Project Manager: Marji Fergerson	Reported: 05/24/06 12:56

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Antimony	BPE0440	BPE0440-BLK1	ND	mg/kg	5.0	0.36	
Arsenic	BPE0440	BPE0440-BLK1	ND	mg/kg	0.50	0.37	
Barium	BPE0440	BPE0440-BLK1	ND	mg/kg	0.50	0.067	
Beryllium	BPE0440	BPE0440-BLK1	0.055000	mg/kg	0.50	0.022	
Cadmium	BPE0440	BPE0440-BLK1	ND	mg/kg	0.50	0.052	
Chromium	BPE0440	BPE0440-BLK1	ND	mg/kg	0.50	0.17	
Cobalt	BPE0440	BPE0440-BLK1	ND	mg/kg	2.5	0.13	
Copper	BPE0440	BPE0440-BLK1	ND	mg/kg 1.0 0.30		0.30	
Lead	BPE0440	BPE0440-BLK1	ND mg/kg 2.5		0.29		
Molybdenum	BPE0440	BPE0440-BLK1	ND			0.12	
Nickel	BPE0440	BPE0440-BLK1	ND	mg/kg 0.50 0.25		0.25	
Selenium	BPE0440	BPE0440-BLK1	ND	mg/kg	0.50	0.39	
Silver	BPE0440	BPE0440-BLK1	ND	mg/kg	0.50	0.049	
Thallium	BPE0440	BPE0440-BLK1	ND	mg/kg	5.0	0.42	
Vanadium	BPE0440	BPE0440-BLK1	ND	mg/kg	0.50	0.064	
Zinc	BPE0440	BPE0440-BLK1	1.0600	mg/kg	2.5	0.31	
Mercury	BPE0694	BPE0694-BLK1	ND	mg/kg	0.16	0.041	

Pacific Gar P. O. Box Needles C.	5 & Electric 337 A, 92363	Project: Project Number: Project Manager:	Misc. Samples Topock Spill Marji Fergerson	Reported:	05/24/06 12:56
	Notes and Definitio	ns			
Q03	Matrix spike recovery(s) is(are) not within the control limits.				
Q02	Matrix spike precision is not within the control limits.				
Q01	Sample precision is not within the control limits.				
pH1:1	pH result reported on a 1:1 dilution of sample				
J	Estimated value				
A02	The difference between duplicate readings is less than the PQL.				
ND	Analyte NOT DETECTED at or above the reporting limit				
dry	Sample results reported on a dry weight basis				

RPD Relative Percent Difference