



**Pacific Gas and
Electric Company**

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February 10, 2014

Ms. Lauri Kemper

Ms. Lisa Dernbach

California Regional Water Quality Control Board, Lahontan Region

2501 Lake Tahoe Boulevard

South Lake Tahoe, California 96150

Subject: January 2014 Chromium Sampling Results for the Domestic Wells at the Hinkley School,
Pacific Gas and Electric Company, Hinkley Compressor Station, Hinkley, California

Dear Ms. Kemper and Ms. Dernbach:

Enclosed are the January 2014 domestic well sampling results for the Hinkley School wells. This report is being submitted in accordance with the California Regional Water Quality Control Board, Lahontan Region's (Water Board's) Investigative Order No. R6V-2013-0087.

The samples were sent to Advanced Technology Laboratories, Inc., a California-certified laboratory, and analyzed for total chromium using U.S. Environmental Protection Agency (EPA) Method 6020A. The laboratory also analyzed the samples for hexavalent chromium using EPA Method 218.6. The enclosed table includes well number, sampling date, and tabulated chromium results for hexavalent and total dissolved chromium data at each well (Table 1). Also enclosed are copies of the analytical laboratory report pages showing the January 2014 chromium results.

The January 2014 results at the Hinkley school domestic wells are less than 3.1 micrograms-per-liter ($\mu\text{g/L}$) for hexavalent chromium and 3.2 $\mu\text{g/L}$ for total dissolved chromium. These results are also less than the proposed California drinking water standard for hexavalent chromium of 10 $\mu\text{g/L}$, as announced in August 2013 by the California Department of Public Health.

Under penalty of perjury and to the best of my knowledge, the attached report is true, complete, and correct.

Sincerely,

Danielle N. Starring, P.E.

Attachments:

Table of chromium results

Laboratory analytical results

cc: Richard Booth, RWQCB Lahontan Region, South Lake Tahoe office
Wael Elatar, Chief Business Official, Barstow Unified School District
Jeff Malan, Superintendent, Barstow Unified School District

TABLE 1
Chromium Sampling Results for Domestic Wells at the Hinkley School, September 2006 - January 2014
Pacific Gas and Electric Company, Hinkley Compressor Station, Hinkley, California

Well ID	Well Type	Sample Date	Hexavalent Chromium (µg/L)	Total Dissolved Chromium (µg/L)
27-08	DOM	09/14/2006	1.98	1.86
		09/14/2006 duplicate	1.92	1.62
		12/07/2006	1.80	1.82
		02/15/2007	1.82	2.08
		04/13/2007	1.44	1.37
		06/20/2007	1.88	1.89
		08/16/2007	1.62	1.66
		10/15/2007	0.855	1.25
		12/07/2007	0.786	ND (1.0)
		02/13/2008	0.382	ND (1.0)
		04/10/2008	0.566	ND (1.0)
		06/12/2008	0.93	1.24
		08/06/2008	1.46	1.34 J
		08/06/2008 duplicate	1.46	1.24
		11/06/2008	1.06	ND (1.0)
		02/05/2009	0.979	1.15
		05/14/2009	1.14	1.12
		05/14/2009 duplicate	1.12	1.22
		08/06/2009	1.11	1.37
		11/12/2009	0.89	1.21
		02/11/2010	0.80	ND (1.0)
		05/13/2010	1.3	1.4
		08/05/2010	1.5	1.3
		10/28/2010	2.7 J	1.7 J
		01/21/2011	0.76	1.3
		02/07/2011	1.1	1.2
		03/08/2011	1.5	1.4
		04/07/2011	1.9	1.9
		05/11/2011	1.2	1.4
		06/07/2011	1.6	1.4
		07/07/2011	1.5	1.2
		08/17/2011	1.5	1.4
		09/13/2011	1.5	1.6
		09/13/2011 duplicate	1.5	2.0
10/04/2011	0.81	1.5		
11/14/2011	1.3	1.3		
01/03/2012	0.65	ND (1.0)		
02/24/2012	1.4	1.1		
03/28/2012	1.4	1.3		
04/16/2012	1.3	1.1		
05/16/2012	1.4	1.3		
06/14/2012	1.5	1.3		
07/12/2012	1.4	1.2		

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Well ID	Well Type	Sample Date	Hexavalent Chromium (µg/L)	Total Dissolved Chromium (µg/L)
27-08	DOM	08/09/2012	1.7	1.1
		09/06/2012	1.6	1.4
		10/02/2012	1.4	1.4
		11/08/2012	1.2	1.2
		12/04/2012	1.1	1.2
		01/08/2013	0.80	ND (1.0)
		02/20/2013	1.0	ND (1.0)
		03/12/2013	1.3	1.7
		04/02/2013	1.5	1.2
		04/02/2013 duplicate	1.5	1.3
		---	NS ^a	NS ^a
		27-38	DOM	09/14/2006
12/07/2006	1.46			1.56
02/15/2007	0.621			ND (1.0)
04/13/2007	0.955			1.05
04/13/2007 duplicate	0.957			ND (1.0)
06/20/2007	1.58			1.79
06/20/2007 duplicate	1.58			1.57
08/16/2007	1.50			1.32
10/15/2007	1.81			1.73
12/07/2007	0.972			1.11
02/13/2008	1.77			1.79
04/10/2008	0.753			1.28
06/12/2008	0.60			1.31
08/06/2008	1.56			1.29
11/06/2008	1.03			ND (1.0)
02/05/2009	ND (0.2)			ND (1.0)
05/14/2009	0.90			1.04
08/06/2009	1.44			1.68
11/12/2009	0.70			ND (1.0)
02/11/2010	0.57			ND (1.0)
05/13/2010	0.93			1.5
08/05/2010	1.3			1.4
10/28/2010	2.9 J			1.6 J
01/21/2011	ND (0.2)			ND (1.0)
02/07/2011	0.37			ND (1.0)
03/08/2011	1.2			1.4
04/07/2011	0.96			1.5
04/07/2011 duplicate	1.0	1.8		
05/11/2011	1.7	1.7		
06/07/2011	1.7	1.4		
07/07/2011	1.6	1.6		
08/17/2011	1.6	1.5		

TABLE 1

**Chromium Sampling Results for Domestic Wells at the Hinkley School, September 2006 - January 2014
Pacific Gas and Electric Company, Hinkley Compressor Station, Hinkley, California**

Well ID	Well Type	Sample Date	Hexavalent Chromium (µg/L)	Total Dissolved Chromium (µg/L)
27-38	DOM	09/13/2011	1.6	3.0
		09/28/2011	1.6	1.8
		09/28/2011 duplicate	1.7	1.9
		10/04/2011	1.2	1.6
		11/14/2011	1.1	1.3
		01/03/2012	0.62	ND (1.0)
		02/24/2012	0.42	ND (1.0)
		03/28/2012	1.2	1.4
		04/16/2012	0.72	ND (1.0)
		04/16/2012 duplicate	0.73	ND (1.0)
		05/16/2012	0.91	1.2
		06/14/2012	1.5	1.4
		07/12/2012	1.4	1.4
		08/09/2012	1.7	1.3
		09/06/2012	1.7	1.4
		10/02/2012	1.5	1.5
		11/08/2012	1.3	1.4
		12/04/2012	0.72	ND (1.0)
		01/08/2013	0.49	1.1
		02/20/2013	0.61	ND (1.0)
		03/12/2013	0.31	ND (1.0)
		04/02/2013	1.4	1.3
		05/07/2013	1.3	1.4
		06/04/2013	1.4	1.4
		07/02/2013	1.5	1.4
		08/01/2013	1.6	1.8
		09/13/2013	1.4	1.5
10/01/2013	1.7	1.6		
11/07/2013	0.78	ND (1.0)		
12/10/2013	0.11	ND (1.0)		
12/10/2013 duplicate	0.088	ND (1.0)		
01/07/2014	0.27	ND (1.0)		
27-39	DOM	09/14/2006	1.42	1.22
		12/07/2006	0.342	ND (1.0)
		02/15/2007	1.73	1.95
		04/13/2007	0.745	2.12
		06/20/2007	1.54	1.49
		08/16/2007	1.50	1.25
		10/15/2007	1.31	1.49
		12/07/2007	1.09	1.10
		02/13/2008	0.51	1.69
		04/10/2008	0.897	1.24
06/12/2008	1.11	1.47		

TABLE 1

Chromium Sampling Results for Domestic Wells at the Hinkley School, September 2006 - January 2014
 Pacific Gas and Electric Company, Hinkley Compressor Station, Hinkley, California

Well ID	Well Type	Sample Date	Hexavalent Chromium (µg/L)	Total Dissolved Chromium (µg/L)
27-39	DOM	08/06/2008	1.53	1.26 J
		11/06/2008	1.46	ND (1.0)
		02/05/2009	0.543	ND (1.0)
		05/14/2009	1.29	1.46
		08/06/2009	1.18	1.44
		11/12/2009	0.73	1.13
		02/11/2010	0.70	1.00
		05/13/2010	0.77	1.1
		08/05/2010	1.7	1.5
		10/28/2010	0.88	1.3
		01/21/2011	1.2	1.6
		02/07/2011	1.6	1.8
		03/08/2011	0.20	ND (1.0)
		04/07/2011	1.2	1.8
		05/11/2011	1.7	2.0
		06/07/2011	1.6	1.6
		07/07/2011	1.4	1.6
		08/17/2011	1.6	1.7
		09/13/2011	1.6	2.0
		10/04/2011	0.65	1.1
		11/14/2011	1.9	2.0
		11/14/2011 duplicate	1.9	1.9
		01/03/2012	0.17	1.0
		02/24/2012	1.2	1.5
		03/28/2012	0.71	1.1
		04/16/2012	0.62	ND (1.0)
		05/16/2012	1.1	1.2
		06/14/2012	1.3	1.3
		07/12/2012	1.5	1.5
		08/09/2012	1.7	1.2
		09/06/2012	1.3	1.3
		10/02/2012	1.2	1.4
		11/08/2012	0.12	ND (1.0)
12/04/2012	0.24	ND (1.0)		
01/08/2013	0.54	ND (1.0)		
02/20/2013	ND (0.06)	ND (1.0)		
03/12/2013	1.2	1.8		
04/02/2013	1.4	1.3		
05/07/2013	2.0	2.3		
06/04/2013	1.8	1.6		
07/02/2013	1.6	1.4		
08/01/2013	2.2	2.4		
09/13/2013	2.0	1.9		

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Well ID	Well Type	Sample Date	Hexavalent Chromium (µg/L)	Total Dissolved Chromium (µg/L)
27-39	DOM	10/01/2013	1.9	2.0
		11/07/2013	1.7	1.5
		12/10/2013	0.53	ND (1.0)
		01/07/2014	0.26	ND (1.0)
27-40	DOM	09/14/2006	2.15	1.89
		12/07/2006	1.98	1.92
		02/15/2007	1.95	2.26
		04/13/2007	2.07	1.75
		06/20/2007	2.05	1.93
		08/16/2007	1.94	2.08
		10/15/2007	2.10	1.88
		12/07/2007	1.98	2.10
		02/13/2008	1.95	2.00
		04/10/2008	1.92	2.20
		04/10/2008 duplicate	1.91	2.17
		06/12/2008	1.81	1.84
		08/06/2008	1.84	1.64
		11/06/2008	1.80	1.19
		02/05/2009	1.61	1.69
		05/14/2009	1.61	1.78
		08/06/2009	1.66	1.84
		11/12/2009	1.28	1.70
		02/11/2010	1.36	1.04
		05/13/2010	1.9	2.0
		08/05/2010	2.0	1.7
		10/28/2010	2.1	1.9
		01/21/2011	1.7	1.9
		02/07/2011	1.5	1.6
		03/08/2011	1.9	1.9
		04/07/2011	1.9	2.2
		05/11/2011	2.0	2.5
06/07/2011	2.0	2.0		
07/07/2011	2.0	1.7		
08/17/2011	1.8	1.8		
09/13/2011	2.0	2.0		
10/04/2011	1.8	2.2		
11/14/2011	1.9	1.9		
01/03/2012	1.6	1.6		
02/24/2012	2.0	1.7		
03/28/2012	2.0	1.9		
04/16/2012	1.9	1.7		
05/16/2012	1.9	1.7		
06/14/2012	2.0	1.8		

TABLE 1
Chromium Sampling Results for Domestic Wells at the Hinkley School, September 2006 - January 2014
Pacific Gas and Electric Company, Hinkley Compressor Station, Hinkley, California

Well ID	Well Type	Sample Date	Hexavalent Chromium (µg/L)	Total Dissolved Chromium (µg/L)
27-40	DOM	07/12/2012	1.9	1.7
		08/09/2012	2.1	1.5
		09/06/2012	2.1	1.8
		10/02/2012	2.0	1.9
		11/08/2012	2.0	2.0
		12/04/2012	1.9	2.1
		01/08/2013	2.0	1.9
		02/20/2013	2.0	1.6
		03/12/2013	2.0	2.2
		04/02/2013	2.0	1.7
		05/07/2013	2.0	1.9
		06/04/2013	1.9	1.4
		07/02/2013	1.9	1.8
		08/01/2013	2.2	2.0
		09/13/2013	1.9	1.8
		10/01/2013	2.0	2.0
		11/07/2013	1.9	1.6
12/10/2013	1.5	1.4		
01/07/2014		1.7	1.6	
	01/07/2014 duplicate		1.7	1.6

^a Hinkley School domestic well 27-08 has not been sampled since April 2013 due to a broken well pump.

Abbreviations:

µg/L micrograms per liter
 J Indicates result is estimated - Analyte was present but reported value may not be accurate or precise
 duplicate Results shown are for a duplicate groundwater sample taken on the same date
 ND (x.x) Parameter is not detected at the reporting limit shown
 NS Not sampled

Well Types:

DOM Domestic supply well

CLIENT: CH2M HILL
Lab Order: N011765
Project: PGE Hinkley, 470774.GW.FW.DW
Lab ID: N011765-001

Client Sample ID: 27-38-051-Q1
Collection Date: 1/7/2014 7:56:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: IC6_140109A	QC Batch: R91957				PrepDate:		Analyst: PN
Hexavalent Chromium	0.27	0.024	0.20		µg/L	1	1/9/2014 09:38 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_140108B	QC Batch: 44752				PrepDate: 1/8/2014		Analyst: CEI
Chromium	ND	0.030	1.0		µg/L	1	1/9/2014 01:23 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Lab Order: N011765
Project: PGE Hinkley, 470774.GW.FW.DW
Lab ID: N011765-002

Client Sample ID: 27-39-051-Q1
Collection Date: 1/7/2014 8:06:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: IC6_140109A	QC Batch: R91957				PrepDate:		Analyst: PN
Hexavalent Chromium	0.26	0.024	0.20		µg/L	1	1/9/2014 10:08 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_140108B	QC Batch: 44752				PrepDate: 1/8/2014		Analyst: CEI
Chromium	ND	0.030	1.0		µg/L	1	1/9/2014 01:28 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



**Advanced Technology
 Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: CH2M HILL
Lab Order: N011765
Project: PGE Hinkley, 470774.GW.FW.DW
Lab ID: N011765-003

Client Sample ID: 27-40-051-Q1
Collection Date: 1/7/2014 8:17:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: IC6_140109A	QC Batch: R91957				PrepDate:		Analyst: PN
Hexavalent Chromium	1.7	0.024	0.20		µg/L	1	1/9/2014 10:38 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_140108B	QC Batch: 44752				PrepDate: 1/8/2014		Analyst: CEI
Chromium	1.6	0.030	1.0		µg/L	1	1/9/2014 01:34 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Field duplicate results for well 27-40

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: 14-Jan-14

CLIENT: CH2M HILL
Lab Order: N011765
Project: PGE Hinkley, 470774.GW.FW.DW
Lab ID: N011765-004

Client Sample ID: 99-09-051-Q1
Collection Date: 1/7/2014 8:27:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: IC6_140109A	QC Batch: R91957	PrepDate:	Analyst: PN
Hexavalent Chromium	1.7 0.024	0.20	µg/L
		1	1/9/2014 11:18 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: ICP7_140108B	QC Batch: 44752	PrepDate: 1/8/2014	Analyst: CEI
Chromium	1.6 0.030	1.0	µg/L
		1	1/9/2014 01:51 AM

Qualifiers:	B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded S Spike/Surrogate outside of limits due to matrix interference DO Surrogate Diluted Out	E Value above quantitation range ND Not Detected at the Reporting Limit Results are wet unless otherwise specified
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**Advanced Technology
Laboratories, Inc.**

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691