

Holden, Anne@Waterboards

From: Baker, Iain <IxBj@pge.com>
Sent: Thursday, December 18, 2014 3:19 PM
To: Dernbach, Lisa@Waterboards; Kemper, Lauri@Waterboards
Cc: Sullivan, Kevin M (CRPO); margaret.gentile@arcadis-us.com; Holden, Anne@Waterboards; Dudley, Matthew(Law)
Subject: NOTIFICATION: Increased Chromium Detections North or Northwest of MW-193S3

Lisa and Lauri,

We are providing notification to the Water Board of chromium results with increased concentrations, as requested in Water Board's February 26, 2014 letter entitled "*Conditional Acceptance of Northern Areas Investigation Proposal*" (the Letter). This notification is in compliance with Condition 5 of the Letter which states the following:

"Within 10 calendar days of receiving validated laboratory reports, submit information to the Water Board, identifying any increasing chromium detections in monitoring or domestic wells to the north or northwest of MW-193S3 during any sampling event or re-sampling event. Increasing concentrations is defined for the purpose of this letter as being 30 percent or greater compared to the previous quarter."

As reported in the related notifications on November 7 and 20, concentrations at the MW-196 well cluster have shown considerable increases since the Third Quarter: Concentrations of Cr6 and CrT rose in MW-196S2 from 1.2 µg/L and 1.4 µg/L in Third Quarter to 18 µg/L and 17 µg/L, respectively, in Fourth Quarter. Concentrations in MW-196S3 rose from below reporting limits in Third Quarter to 54 µg/L and 49 µg/L, respectively, in Fourth Quarter.

The November 20 notification reported results from additional purging completed for MW-196S3 on November 6 and suggested additional purging would be completed for all three MW-196 wells in December. The additional purging in November and December was completed to assess if removing a significant volume of water from the well bore and immediate vicinity in the aquifer near the well would cause changes in measured values in the well, including chromium concentrations. This notification presents the results of the December purging.

Four chromium samples were collected from each of the MW-196 wells during the extended well purging event and their results are reported in the table below; all concentrations continue to represent an increase from the previous quarter as defined by the Letter.

Well ID	Date	Elapsed Time (min)	Volume Purged (gallons)	Cr6 µg/L	CrT µg/L
MW-196S1	12/8/2014	32	64	9.3	9.0
		122	244	8.0	7.5
		242	484	7.4	7.3
		362	724	7.3	7.0
MW-196S2	12/9/2014	24	48	19.0	17.0
		124	248	35.0	32.0
		244	488	28.0	25.0
		364	728	24.0	21.0
MW-196S3	12/10/2014	32	64	18.0	16.0
		122	244	6.4	5.8

		242	484	3.3	2.9
		362	724	2.1	1.9

All wells were purged at a constant rate of 2 gallons per minute.

PG&E will submit a letter to your offices in January to document the activities completed at these wells within the Fourth Quarter and to further discuss the results.

Please let me know if you have any questions or need any additional information.

Thanks,

Iain

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