From: Wetmore, Cynthia
To: Orr, Shu-Fang@Waterboards
Bcc: Barton, Dana; Jolish, Taly
Subject: RE: DDW Requests for Cal Water Well 279-01 Sampling
Date: Friday, January 16, 2015 1:21:00 PM
Attachments: image005.png
image006.png
image001.png

Hi Shu-Fang,

I think we can arrange it, but I won't know for sure until I talk with Montrose about arranging for collection. Due to legal concerns, I've been instructed to wait until the end of next week before talking to them. As soon as I get the green light, I will call to arrange.

I suspect the only wells that will be available to sample are monitoring wells. Hopefully, that is ok. If the lab is looking at a specific concentration of pCBSA, I can identify wells that might have pCBSA in that range. Also note that there are high concentrations of chlorobenzene, benzene and TCE also present.

Thanks, Cynthia W.

Cynthia Wetmore, Technical Support Section
US.EPA, Region IX, Superfund Division
75 Hawthorne Street, San Francisco, 94105
(415)972-3059

From: Orr, Shu-Fang@Waterboards [mailto:Shu-Fang.Orr@waterboards.ca.gov]
Sent: Friday, January 16, 2015 12:27 PM
To: Wetmore, Cynthia
Subject: RE: DDW Requests for Cal Water Well 279-01 Sampling

I just checked with the chief of CDPH-Drinking Water and Radiation Laboratory. He said they need these samples to validate their procedures in the groundwater matrix. So, the answer is yes- we need to collect these samples around the same period. If there are other wells in the source area with high level of pCBSA and are running currently, we can use them instead. These samples are only utilized for method developing/validation.

Thank you!

Shu-Fang

From: Wetmore, Cynthia [mailto:Wetmore.Cynthia@epa.gov]
Sent: Friday, January 16, 2015 10:38 AM
To: Orr, Shu-Fang@Waterboards
Subject: RE: DDW Requests for Cal Water Well 279-01 Sampling

OK. I'll let CH2MHill know. The extraction wells aren't and won't be operating; do you need a sample the same time when you collect the other samples? If so, let me see what I can do.

Thanks, Cynthia

Cynthia Wetmore, Technical Support Section
US.EPA, Region IX, Superfund Division
75 Hawthorne Street, San Francisco, 94105
(415)972-3059

From: Orr, Shu-Fang@Waterboards [mailto:Shu-Fang.Orr@waterboards.ca.gov]
Sent: Friday, January 16, 2015 10:15 AM
To: Wetmore, Cynthia
Subject: RE: DDW Requests for Cal Water Well 279-01 Sampling

Thank you for the data. Our laboratory is ready to accept samples. I am going to request to have the sampling containers ship to us and go from there. I do not think we will be ready to do the sampling next Tuesday (I doubt the bottles will arrive that fast). So our sampling may occur in later part of next week or the week after. Our lab has requested us to collect pCBSA samples from contaminated sources, for the data verification purpose. Is it possible for us to sample one or two of the extraction wells?

By the way, here is the contact information for the City of Torrance:

Alan Berndt
Water Superintendent
ABERNDT@TORRANCECA.GOV
(310) 618-6219
Mobil (310) 780-8150

Best regards,

Shu-Fang Orr, P.E.
District Engineer, Angeles District
Drinking Water Field Operations – Southern California
SWRCB, Division of Drinking Water
500 N. Central Avenue, Suite 500
Glendale, CA 91203
818-551-2045 (Phone); 818-551-2054 (fax)
e-mail: Shu-Fang.Orr@waterboards.ca.gov

From: Wetmore, Cynthia [mailto:Wetmore.Cynthia@epa.gov]
Sent: Friday, January 16, 2015 9:34 AM
To: Phuong Ly; MARTINEZ, YARISSA; Orr, Shu-Fang@Waterboards
Cc: Warren, Scott@DTSC
Subject: RE: DDW Requests for Cal Water Well 279-01 Sampling

Hi again Shu-Fang,

Thanks for calling me this morning. CH2MHill is now scheduled to sample on Tuesday – assuming coordination for access works out. They will call you today to coordinate.

Attached is the draft map of pCBSA in the Gage Aquifer from the 2014 sampling event. I have not received the formal report, but was told that the Lynwood had pCBSA in the single digits. I need to confirm this. The furthermost contour line on the attached map is the 1 ppm pCBSA level. As I mentioned, the western monitoring wells were non-detect, which is why I feel confident that the Madera #2 well and the CWS well near there will also be non-detect.

The second attachment is the groundwater model run for the extent of the pCBSA plume in the Gage (the unit where it will be re-injected) one year after operation of the treatment system as it was originally designed – i.e. re-inject at 25 ppm. The model was run to the 10 ppm contour (this is an old run when 25 ppm was considered protective, and we wanted to step out a little from that.) As you can see, the pCBSA stays within about a block of the injection well. I do not have a run for the '5-day+" test because the model step is one year, but this can give a feel about how local the pCBSA reinjection extent will be after a short test.

Thanks, Cynthia

Cynthia Wetmore, Technical Support Section
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From: Phuong Ly [mailto:ply@wrd.org]
Sent: Thursday, January 15, 2015 7:18 PM
To: Wetmore, Cynthia
Cc: Shu-Fang Orr (Shu-Fang.Orr@waterboards.ca.gov); Scott Warren (Scott.Warren@dtsc.ca.gov)
Subject: DDW Requests for Cal Water Well 279-01 Sampling

Hi Cynthia,
Shu-Fang Orr of the SWRCB Division of Drinking Water (DDW) called me today and requested that I pass along the following information to you. Feel free to contact Shu-Fang directly, since I have cc'd her on this e-mail and previously sent you her contact information.

1. Shu-Fang would like to be kept in the loop as you are coordinating sampling of Cal Water Well 279-01, since DDW would like to collect split samples at the same time that CH2MHILL plans to collect samples from this well.
2. As Shu-Fang requested, I revised our well maps (see attached) to show the approximate locations of the Montrose/Del Amo extraction wells and reinjection wells, with respect to the nearby production wells and WRD monitoring wells. As you can see, the two drinking water wells located closest to the reinjection wells are Cal Water Well 232-03 and WRD Well Madrona #2 (this is a production well owned by WRD that is treated with reverse osmosis membranes and delivered to the City of Torrance as drinking water). In order to have background concentrations, Shu-Fang recommended that you consider sampling these wells if you plan to reinject any treated water as part of your startup pilot testing of the Montrose/Del Amo groundwater treatment system.
3. With regards to the downgradient Cal Water Well 219-02, which is inactive, Shu-Fang reported that Cal Water plans to reactivate the well within the next 5 years. Cal Water also plans to collect

water quality samples from this well sometime this year.

4. Shu-Fang stated that the SWRCB Division of Drinking Water is still determining if there is sufficient data available to establish a Notification Level for pCBSA.

Feel free to give me a call if you have any questions.

Phuong Ly, P.E.
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