From:	Tom.Perina@CH2M.com
To:	Bradley.Barquest@utc.com; Scott.Parsons@tetratech.com
Cc:	Chavira, Raymond; ebrayc@gmail.com; Kerang.Sun@CH2M.com; John.Dolegowski@CH2M.com
Subject:	FW: Two additional files for B4/MW6-22D location...
Date:	Thursday, April 18, 2013 5:12:19 PM
Attachments:	SZ_plume_11x17_April_2013.pdf

Brad and Scott,

I am sending this on Ray's behalf:

Attached find please the SZ plume map with the depth discrete sampling results at PMW-1, MW6-21, MW6-9i and the Amar Rd. locations posted, along with three additional investigation locations recommended to characterize the leading edge of SZ Eastern plume.

Amar Rd. Sampling

The drilling of the borehole for the piezometer on the Amar Rd. property is currently planned to terminate at 340ft with the last discrete sample collected at about 343ft. Please continue drilling through the aquitard underlying the shallow zone to confirm its presence and thickness, because the aquitard is expected to thin out and transition into coarser and more permeable material in the direction to the north toward San Gabriel basin. To drill through the aquitard, a total depth of about 350-360ft will be needed. No sampling would be required once the borehole advances into the fine grained material of the aquitard. Geophysical logging should be done after the aquitard is penetrated.

Additional Borings

1. Additional Location 1 targets the center-line of the SZ Eastern plume as apparently detected at PMW-1 @ 220' (TCE = 60 ug/L). Target depth 300ft. This location should be drilled first and depending on the results, locations 2 and 3 may have to be changed.
2. Additional Location 2 targets the eastern boundary (MCL) of the eastern plume at the toe. Target depth 250ft.
3. Additional Location 3 targets the leading edge of the SZ plume, as detected at 170-180ft at the Amar location. Target depth 220ft.

The objective of this additional investigation is to characterize the extent of the SZ Eastern plume near its leading edge to confirm whether the Amar Rd. property is acceptable as an injection location.

Monitoring wells at the three additional locations will also improve water level contour maps. Currently, due to lack of data, the flow direction in this area is uncertain and wells at these locations would eliminate much of that uncertainty. Also, they would allow monitoring of changes to flow direction due to injection when the system operates.

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-----Original Message-----
From: Sun, Kerang/SCO
Sent: Thursday, April 18, 2013 11:40 AM
To: Perina, Tom/RIV
Cc: Dolegowski, John/SCO
Subject: FW: Two additional files for B4/MW6-22D location...

-----Original Message-----
From: Parsons, Scott [mailto:Scott.Parsons@tetratech.com]
Sent: Wednesday, April 17, 2013 4:08 PM
To: Sun, Kerang/SCO
Cc: Raymond Chavira
Subject: RE: Two additional files for B4/MW6-22D location...

Thanks Kerang. Can you send over your suggested location for a new PVOU SZ monitoring well at the toe of the Eastern Plume? We would like to discuss at our call on Friday.

_____
From: Kerang.Sun@CH2M.com [Kerang.Sun@CH2M.com]
Sent: Wednesday, April 17, 2013 5:53 PM
To: Parsons, Scott
Subject: Two additional files for B4/MW6-22D location...

This concludes the data transfer for now.

I am expecting to see the updated summary for depth-discrete sampling results for the step out locations at MW6-9i. Will pass it to you once I receive it.

Thanks,

Kerang