| | |
|---|---|
| **From:** | John.Dolegowski@CH2M.com |
| **To:** | Chavira, Raymond |
| **Cc:** | Tom.Perina@CH2M.com; Kerang.Sun@CH2M.com |
| **Subject:** | FW: Baseline Water Quality Sampling Work Plan, PVOU SZ-North |
| **Date:** | Thursday, December 12, 2013 6:16:17 PM |
| **Attachments:** | Workplan 12-11-2013.pdf<br>EPA Low Flow Sampling-April 1996.pdf<br>CH2MHILL Review - Revised Baseline Sampling WP PVOU SZ-North (TTG 11 Dec 2013)_v2.docx |

Ray,

CH2M HILL's review of the *Revised Baseline Sampling Work Plan, PVOU SZ-Nort*h (TTG, 11 Dec 2013) is attached for your review. Although UTC addressed EPA's concerns regarding their planned collection of composite samples, a few new issues have arisen regarding UTC's plans to sample the extraction wells with a higher capacity submersible pump. If you like, CH2M HILL is available to discuss these issues with yourself and UTC staff by phone in order to confirm that their methods of extraction well purging are acceptable, thus avoiding the potential need for another draft of the Sampling Work Plan and associated schedule delays.

***John Dolegowski***
***Senior Hydrogeologist/Project Manager***
***CH2M HILL***
***jdolegow@ch2m.com***
*Work Phone: 714/435-6355*
*Cell Phone: 949/547-6052*
*Fax: 714/424-2073*

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**From:** Chavira, Raymond [mailto:Chavira.Raymond@epa.gov]
**Sent:** Thursday, December 12, 2013 12:22 PM
**To:** Perina, Tom/RIV
**Cc:** Sun, Kerang/SCO; Dolegowski, John/SCO
**Subject:** FW: Baseline Water Quality Sampling Work Plan, PVOU SZ

Tom,

Please conduct a quick review should be straightforward by COB today

Thanks

Ray

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**From:** Lee, Don [mailto:Don.Lee@tetratech.com]
**Sent:** Wednesday, December 11, 2013 3:59 PM
**To:** Chavira, Raymond
**Cc:** Bradley.Barquest@utc.com; Parsons, Scott; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
**Subject:** Baseline Water Quality Sampling Work Plan, PVOU SZ

Ray,

Please find attached a revised Baseline Water Quality Sampling Work Plan associated with the PVOU

SZ extraction wells, and the reinjection area monitoring wells and piezometer located at and adjacent to the 13811 Amar Road property. As Brad Barquest (UTC) discussed with Tom Perina (CH2MHill) we have opted to develop and collect discrete samples from each of the extraction wells rather than utilizing the composite approach previously contemplated. We believe this extraction well sampling approach will provide data that is more representative of actual groundwater conditions than the previously contemplated sampling approach. As such all samples collected from the identified extraction wells, monitoring wells and Amar Road piezometer will be discrete samples.

With respect to scheduling, we have made arrangement to begin sampling the extraction wells on Monday, December 16, 2013, pending receipt of EPA's approval of the attached Baseline Water Quality Sampling Work Plan. We will complete the sampling of the extraction wells before moving to the reinjection area wells (i.e., MW8-1, MW8-2 and MW8-3, and piezometer P-1), as we are currently waiting receipt of the MW8-1, MW8-2 and MW8-3 access permits from LA County.

We plan on start sampling extraction wells S-5 and S-6, and proceed upgradient from there. We will provide daily updates with work performed and a schedule of which wells will be sampled the following day. We will also keep you informed as to the status of the LA County access permits for MW8-1, MW8-2 and MW8-3.

Please call if you have any questions.

Regards,
Don

**Don Lee, PG, CHG** | Senior Hydrogeologist

**Direct: 949.809.5220 | Main: 949.809.5000 | NEW Cell: 949.697.1575 | Fax: 949.809.5010**
don.lee@tetratech.com

**Tetra Tech**
**17885 Von Karman Avenue, Suite 500, Irvine, CA 92614-6213** | www.tetratechgeo.com
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