

Jakub, Barbara, Env. Health

From: Jakub, Barbara, Env. Health
Sent: Friday, October 05, 2012 11:41 AM
To: 'Rebekah Westrup'; jennifer.c.sedlachek@exxonmobil.com
Subject: RE: RO 2974 "Work Plan for Groundwater Monitoring, Air Sparge and Soil Vapor Extraction Well Installations"

Dear Ms. Sedlachek,

I have performed a review of the *Work Plan for Groundwater Monitoring, Air Sparge and Soil Vapor Extraction Well Installations* dated August 1, 2012 and *Groundwater Monitoring Report, Second Quarter 2012* dated May 25, 2012 prepared by Cardo ERI. Before this work plan can be approved, I need some clarifications and additional information.

The rose diagram from the groundwater monitoring report indicates that that primary groundwater flow directions have been to the north, NNE, SSE, and NNW . However the proposed groundwater monitoring wells are located to the Southwest. Please provide your justification for these locations or relocate them. Include a contaminant isoconcentration contour map on this proposed location map for contaminants of concern.

Please provide at least two cross-sections, at least one perpendicular and one parallel to the groundwater flow direction, include the lithology and contaminant concentrations, groundwater high and low elevations, proposed SVE and air-sparge screen intervals, the tank pit and any utility conduits that are on-site. Also, if the site surface has a large vertical variation, please use the elevation on the vertical scale.

As I have requested for other sites, please enlarge the site area presented on the site maps (groundwater elevation maps, etc.) so information is easily readable. Please evaluate if the data that is used on the groundwater elevation map is all from the same screened interval. Prepare groundwater contour elevation maps using only wells from the same screened interval. Evaluate if the previous groundwater flow directions presented on the rose diagram are accurate in light of this apparent inclusion of anomalous data. Also include an arrow showing the groundwater flow direction on all future groundwater elevation maps.

Please submit the requested evaluation and cross-sections in a work plan addendum by November 5, 2012.

Regards,

Barbara Jakub, P.G.
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PDF copies of case files can be downloaded at:

<http://ehgis.acgov.org/dehpublic/dehpublic.jsp>

From: Rebekah Westrup [<mailto:rebekah.westrup@cardno.com>]
Sent: Thursday, October 04, 2012 8:25 AM
To: Jakub, Barbara, Env. Health
Subject: RO 2974 "Work Plan for Groundwater Monitoring, Air Sparge and Soil Vapor Extraction Well Installations"

Barb:

I am just following up on the above referenced Work Plan that we submitted on August 1, 2012. We are eager to move forward with this work, and anticipate that placement of the offsite wells will require additional permitting. We want to try to start that process before the Holidays, but cannot do so until we have your approval for the proposed work. Have you had

a chance to review this work plan? Please let me know if you have any questions or concerns. I hope things are going well with you.

Rebekah A. Westrup
SR STAFF GEOLOGIST
CARDNO ERI



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