

From: Sybil Kolon
To: Kolon, Sybil
Date: 12/4/2007 3:18:49 PM
Subject: Gelman - Periodic DEQ Update - Unit E and Evergreen Drilling Results

Following is another in a series of updates on recent field activities completed by Pall Life Sciences (PLS) over the past month in Veterans Park and in the Evergreen Subdivision. Additional details and analysis will be provided in future reports or correspondence from PLS that will be sent to the information repositories. These borings provide new information that is still being evaluated.

Three monitoring wells or well clusters were proposed in Veterans Park to help monitor the performance of the Maple Road portion of the Unit E remedy. These locations are shown on the map that can be accessed from the link below.

http://www.michigan.gov/documents/deq/deq-rrd-GS-VeteransPark2-07-2007_203726_7.pdf

At the southern-most Veterans Park location (MW-116), groundwater was encountered at 78 feet below ground surface (bgs) and water samples were collected at ten-foot intervals from 80 to 150 feet with the following results for 1,4-dioxane in parts per billion (from shallow to deep): 23, 64, 246, 131, 26, 364, 477, 278. No groundwater was encountered from 152 to 284 feet bgs. Cobbles and boulders were encountered below this depth and the auger could not be advanced. PLS estimates bedrock was within about 5 feet. One monitoring well (MW-116) was installed, with DEQ concurrence, screened from 135-140 feet in the highest zone of contamination.

At the middle Veterans Park location, (MW-115) groundwater was encountered at 37 feet bgs and water samples were collected at ten-foot intervals from 40 to 90 feet bgs. All of these samples were non-detect for 1,4-dioxane. Groundwater was again encountered from 114-143 feet bgs and three water samples were collected with the following results for 1,4-dioxane in parts per billion (shallow to deep): 1,379, 1,238, 219.

Drilling continued to 245 feet bgs where cobbles and boulders were encountered again and the auger could not be advanced. It was again not determined if groundwater is present at this depth. One monitoring well (MW-115) was installed, with DEQ concurrence, screened from 125-130 feet bgs, in the highest zone of contamination.

Drilling for the northern-most Veterans Park location (MW-114) is expected to begin today or tomorrow (Dec. 4 or 5).

In the Evergreen Subdivision PLS is currently completing installation of MW-113 on Hollywood just east of Dellwood. This monitoring well was needed to determine the northern edge of the Evergreen plume to the north of MW-KD-1d, which has been above the generic residential cleanup criterion for 1,4-dioxane of 85 parts per billion (ppb) for over two years (162 ppb in October 2007). The boring at this location encountered groundwater from 100-180 feet bgs and eight water samples were collected at ten foot intervals with the following results for 1,4-dioxane in ppb's (shallow to deep): non-detect (ND), ND, 3, ND, 2, 4, 3, 17. Drilling continued to 239 feet bgs where groundwater was encountered in an eight-foot interval. One sample was collected and the result was 4 ppb of 1,4-dioxane. A seven-foot layer of silt was encountered prior to the boring reaching the shale bedrock at 254 feet bgs. PLS is installing one monitoring well (MW-113), screened from 175-180 feet bgs, in the highest zone of contamination, with DEQ concurrence. PLS has not agreed to the DEQ's request for installation of a deep screen at this location, as they believe the 4 ppb result at depth may be "carry down" from the shallower contamination, and the objective of the well was to field verify the northern extent of the Evergreen plume. Based on the information received to date at this location, the DEQ will not require a deep well to be installed at this time. The DEQ will be discussing with PLS in the near future the need for one or more monitoring wells in the Evergreen area to monitor and better understand the deeper aquifer.

Another boring was drilled on Valley at the south end of Clarendon to determine if there is any connection between the Evergreen plume and the Unit E plume to the south. Water samples were collected from the

following depth bgs: 70, 120, 130 feet, and all were non-detect. Bedrock was encountered at 241 feet bgs. A monitoring well was not installed at this location. PLS intends to drill another boring about 200 feet to the east of this location, on the north side of Valley, after the third Veterans Park boring is completed.

The bore hole logs for these recent borings will be sent to the information repositories after they are received.

Previous updates and other details can be found on the DEQ's Gelman web site, which can be accessed in two ways:

click on the following link:

http://www.michigan.gov/deq/0,1607,7-135-3311_4109_9846_9847-71595--,00.html

or enter <http://www.michigan.gov/deqrrd>, then scroll to "Contaminated Sites List" and click on "Gelman Sciences, Inc. Site of Contamination".

Additional documents are also available at the Gelman Information Repository Locations:

Ann Arbor District Library
Downtown Library
343 South Fifth Avenue
734-327-4200

Scio Township Hall
827 North Zeeb Road, Ann Arbor
734-665-2123

City of Ann Arbor Water Utilities Department
100 North Fifth Avenue
Contact: Venita Harrison 734-994-8286

Washtenaw County Department of Planning
and Environment
705 North Zeeb Road, Ann Arbor
Contact: Michael Gebhard 734-222-3855

Please contact me if you have any questions or would like to be removed from or added to this distribution list.

Sybil Kolon
Jackson District Office
Remediation and Redevelopment Division
Department of Environmental Quality
301 E. Louis Glick Hwy.
Jackson, MI 49201
phone: 517-780-7937
fax: 517-780-7855
e-mail: kolons@michigan.gov