

Richard Chatfield

From: Conforti, Rich (DEQ) <CONFORTIR@michigan.gov>
Sent: Monday, September 18, 2017 11:27 AM
To: Michael Tomka; Rogers, Joseph (DEQ); McCabe, John (DEQ)
Cc: Dave Favero (dfavero@racertrust.org); Richard Chatfield; 'cctofiling@croworld.com'
Subject: RE: 13720 Coldwater Road -Deep Dissolved Aluminum Detections in Groundwater ~COR12636~

Mike,

Thank you for the additional information. We will include this information as part of the decision process to move forward towards corrective action complete with controls.

Rich

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From: Michael.Tomka@ghd.com [mailto:Michael.Tomka@ghd.com]
Sent: Monday, September 18, 2017 7:18 AM
To: Conforti, Rich (DEQ) <CONFORTIR@michigan.gov>; Rogers, Joseph (DEQ) <ROGERSJ5@michigan.gov>
Cc: Dave Favero (dfavero@racertrust.org) <dfavero@racertrust.org>; Richard.Chatfield@ghd.com; 'cctofiling@croworld.com' <cctofiling@croworld.com>
Subject: 13720 Coldwater Road -Deep Dissolved Aluminum Detections in Groundwater ~COR12636~

Rich, as a follow-up to our discussion, please see below for additional information regarding aluminum at the Site:

Deep Groundwater Dissolved Aluminum Exceedances are as follow:

Location	Date	Concentration	Sample Turbidity	Criteria
B-27D	3/31/2017	1 mg/L	289 NTU	Residential Drinking Water (aesthetic [0.05 mg/L] and health based [0.3 mg/L]), Non Residential Drinking Water (aesthetic [0.05 mg/L]; below health based [4.1 mg/L])
MW15-10	4/29/2015	0.32 mg/L	131 NTU	Residential Drinking Water (aesthetic and health based), Non Residential Drinking Water (aesthetic; below health based)
MW15-10	3/29/2017	0.27 mg/L	576 NTU	Residential Drinking Water (aesthetic; below health based), Non Residential Drinking Water (aesthetic; below health based)

Background Aluminum Values:

- Site-Specific Background (Deep Groundwater) Aluminum Concentration is 5.3 mg/L
- Site-Specific Background (Deep Groundwater) Dissolved Aluminum Concentration is 0.133 mg/L
- Site-Specific Background (Shallow Groundwater) Aluminum Concentration is 10.5 mg/L
- Site-Specific Background (Shallow Groundwater) Dissolved Aluminum Concentration is 3.52 mg/L
- Site-Specific Background (Soil) Aluminum Concentration is 15,100 mg/kg.

Considerations:

1. There have been no shallow groundwater exceedances of background values of Aluminum (Total or Dissolved)
2. Of 93 soil aluminum samples collected on-Site as part of the RFI, two marginally exceeded the Site-Specific background soil standard developed as part of the RFI at concentrations of 16,400 mg/kg (since excavated) and 15,900 mg/kg (duplicate result of 15,700 mg/kg); therefore, there is no on-Site source of aluminum in soils.
3. MW15-10 exceedances are below or marginally above the health based residential drinking water criteria and are below the non-residential health based drinking water criteria.
4. Sample turbidities were higher during the events which exceeded than the average at these locations measured throughout the 2010/2011 quarterly sampling events; B-27D (42 NTU) and MW15-10 (72 NTU). This may have contributed to the results.
5. There is no additional evidence that deep groundwater at the Site has been impacted by former Site operations.

Please call or email with any questions or comments.

Thank you Mike

Michael R Tomka, P.E. P.Eng.

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