

Memorandum

Date: 8 August 2007
To: Section 5 Oversight Team and CLFV
From: David Adilman and Peter Zeeb
Subject: Omya Section 5 Study - Additional Perchlorate Sampling

As outlined in our Phase II Scope of Work, Geosyntec conducted water quality sampling at the Hogback Quarry on July 5, 2007. Two detention ponds adjacent to the Hogback quarry site were sampled for perchlorate. These detention ponds serve as settling basins for water pumped from the quarry floor prior to surface water discharge. As announced on August 6, 2007, perchlorate was detected at the Hogback Quarry's northern outfall at a concentration of 77 µg/L (77 parts per billion, or ppb) and at the southern outfall at 7.9 µg (7.9 ppb). A potential source of this perchlorate is explosive residue from blasting at the quarry. To assess the nature and extent of potential contamination, further sampling and analysis are required. The following summarizes follow-on work that has been completed or is planned.

Second Round of Surface Water Sampling

Geosyntec conducted additional surface water sampling on August 7, 2007, as described below.

1. Hogback Quarry Sump – North
2. Hogback Quarry Sump Discharge - North (outlet of sump pipe to treatment pond)
3. Hogback Quarry Outfall Location - North (NPDES outlet / discharge of treatment pond - where sample had been previously collected and found to contain 77 ppb of perchlorate)
4. Hogback Quarry Blast Area Fracture - North (water seep exiting fracture from recent blast area 50 ft east of north quarry sump)
5. Hogback Quarry Outfall Location - South (sample collected in final treatment pond - where sample had previously shown 7.9 ppb perchlorate)
6. Hazelton Pond (pond located to the north - northeast of Hogback)

7. Smith Pond

We hope to have preliminary analytical results for these samples by August 14, 2007. We will provide these preliminary results to the OT.

Residential Well Sampling in Vicinity of Hogback Quarry

Omya is helping us identify all residential well locations and owners in the general vicinity of the Hogback Quarry. This information will be forwarded to us by this Friday. We will evaluate this information and determine which wells are appropriate for sampling. We are working to coordinate sampling by Geosyntec of these locations next week. Should perchlorate be detected in any off-site residential wells, a quantitative assessment of groundwater flow pathways under dewatering and non-dewatering conditions would be warranted.

Additional Sampling

We will continue to evaluate what additional groundwater and surface water sampling is appropriate to assess the potential for exposure to perchlorate.

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