

Rennaker, Joanne (DEQ)

From: Prysby, Mike (DEQ)
Sent: Thursday, April 03, 2014 9:57 AM
To: sfmatta@lan-inc.com
Cc: Busch, Stephen (DEQ)
Subject: Flint WTP - Bray Road Lagoon Proposal - MDEQ comments
Attachments: Pre-lim Eng Reports - DEQ Comments III April 2, 2014.doc

Samir,

Attached are our comments pertaining to submittals received for Phase II – Segments I and II for the Flint WTP. If you have any questions concerning our comments, I will be available till close of business today to discuss with you. After today, you will need to contact Steve Busch concerning any questions regarding the Flint WTP project. I will return from vacation on Monday April 21st.

Michael Prysby, P.E.
District Engineer
Office of Drinking Water and Municipal Assistance
517 290-8817

**Flint WTP Improvements
Phase II
Segments I-III
MDEQ Comments
April 3, 2014**

Phase II – Segment 1 - Watermain Cut-in Plans

- **Mid-Pt Chlorination** - update plans to depict the additional anti-siphon/ball valve as described in your response to our March 19, 2014 comments. Most likely to be added to Sheet C-508.
- **Include a full-sized mid-point chlorination system schematic** with the updated plans.
- **It appears that make-up water and chlorine gas are not combined at the chlorine feeder (panel w. rotometer, vacc. monitor, auto. feed control valve, etc.) for production of liquid chlorine. Instead, this appears to take place at the ejector/check valve assembly on the plant supply line. Please confirm. If gas under vacuum is conveyed to the ejector at the plant supply line, the gas piping must be Schedule 80 seamless steel tubing. Please confirm. This can be included on the chlorination system schematic.**

Please provide 2 full-sized sets of Watermain Cut-in Plans that include the requested information and revisions.

Phase II - Segment 1 - WTP Rehabilitation Plans

- **LOX/LN Storage & Piping** – update plans to depict revised sheets D2-102 and D2-601. The revisions were made to clarify the gas piping configuration.
- **The existing LOX storage tank will provide approximately 16 days storage at max design rate at 12.0 MGD until the second tank is installed. The Act 399 permit will be issued with a condition that the MDEQ is provided a copy of the contract between the city and the LOX supplier that specifies the maximum delivery time. The LOX system shall be operated such that a minimum of 5 days**