

Payson Long
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation
Bureau of Program Management
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Albany, NY 12233-7012

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Subject:
September 2019 Monthly Report
Fort Edward Landfill
NYSDEC Site No. 558001
Contract No. D007618-39

Date:
November 12, 2019

Contact:
Andy Vitolins

Dear Mr. Long:

Arcadis CE, Inc. (Arcadis) has prepared this letter report to summarize the leachate collection and treatment system operation, maintenance, and monitoring (OM&M) activities completed during the September 2019 reporting period at the above-referenced site.

Phone:
518.250.7300

Leachate Collection and Treatment System Operation and Maintenance

Email:
andy.vitolins@arcadis.com

The leachate collection system was offline for the month of September due to faulty control wiring between the extraction wells (EW-1 thru EW-4) and the treatment plant. System operations are anticipated to resume in October 2019, following replacement and testing of the control wiring and treatment plant upgrades.

Our ref:
30001370 (00266434.0000)

The following activities were completed during the September 2019 operating period:

- On September 19, 2019, Arcadis met with Aztech Environmental Technologies for a preliminary site walk to discuss upcoming drilling activities.
- Brush cutting and clearing along the landfill drainage swales, the perimeter of the treatment cells, and near well vaults and other structures was performed throughout the month. In addition, select areas were cleared within the Constructed Wetland Treatment System (CWTS) cells to facilitate upcoming drilling activities.

- On September 23, 2019, Arcadis located and inspected all existing electrical and communication junction boxes between the treatment system building and the extraction wells. The existing control wiring was removed in preparation of the installation of new wiring, and the conduits were cleared of potential obstructions using compressed air.
- Arcadis completed a three-inch wide by 18-inch deep trench and installed a new, two-inch schedule (SCH) 40 poly-vinyl chloride (PVC) electrical conduit between the EW-4 and EW-2 control panels to accommodate new control wiring.
- New wiring was pulled and terminated between the treatment plant building and each extraction well (EW-1 thru EW-4) and collection sump well EW-5.
- The former intake ventilation system was removed from the treatment building to accommodate an automated exhaust system. This exhaust system includes a chlorine sensor, an actuated inlet louver, exhaust fan, and exterior warning light. If chlorine is detected in the treatment system building at concentrations equal or greater than the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) of 0.5 parts per million (ppm), an alarm will be displayed on the control panel and a notification sent by the program logic controller (PLC) to the operator (i.e. Arcadis). If the chlorine concentration reaches the OSHA Short-Term Exposure Limit (STEL) of 1 ppm, the inlet louver will open, and the exhaust fan will be turned on. In addition, chlorine feed pump operation will be inhibited, and the exterior warning light will be activated. When the chlorine concentration decreases below 1 ppm for a set period of time, the exhaust system will be turned off and the chlorine feed pump will resume normal operation.
- Hour Electric was onsite to install electrical conduit and wiring for the chlorine exhaust system and new "Exit" signs for the entry doors. Hour Electric also upgraded the existing light switches and receptacles with water resistant covers.
- Due to the previously observed high chlorine concentrations within the building, corrosion was observed on several equipment components. Arcadis worked to remove visible corrosion on critical components and replaced a defective fan motor in the air compressor dryer that was damaged by the corrosion.

System Sampling

No samples were collected in September 2019 as the system was offline. System sampling will resume when the electrical work is completed, and the system is back online.

Next Reporting Period Planned Activities

The following activities are anticipated for October 2019:

- Continuation of wiring upgrades and treatment system startup and testing;
- Continuation of iron and solids treatment and processing; and
- Routine monthly system and quarterly sampling.

NYSDEC Site No. 558001
Payson Long
November 12, 2019

If you have any questions, please do not hesitate to contact me or Jeremy Wyckoff.

Sincerely,

Arcadis CE, Inc.

A handwritten signature in blue ink, appearing to read 'AV', with a long horizontal line extending to the right.

Andy Vitolins, P.G.
Vice President

Copies:
Jeremy Wyckoff, Arcadis
File

Enclosures:
None.