



SITE INSPECTION REPORT

Cobble Hill Landfill Closure

PROJECT # : PRJ18074

File #: 18074- SIR#1

SHA REPRESENTATIVE:

Date: April 16, 2020

Carly Wolfe, EIT

Time: 9:30AM – 1:00PM

Contractor:

Allterra Construction Ltd.

Weather

Morning: Sun

Project Superintendent:

Gary Isacson

Afternoon: Sun

Construction Activities:

Sperling Hansen Associates (SHA) performed a site inspection on April 16, 2020 at the Cobble Hill Landfill (Landfill) to assess the site construction progress and the implementation of the Closure Plan design. This report summarizes the Landfill site inspection findings and concludes by identifying action items.



SPERLING HANSEN ASSOCIATES

- Landfill Engineering
- Solid Waste Planning
- Environmental Monitoring
- Landfill Fire Control



Picture # 1: SHA visually inspected the stockpile of proposed clear crush drainage gravel. SHA visual inspection of the material confirmed that the rock is uniform in quality, angular in nature, and free from excesses of flat and elongated particles, organic material, salt, and foreign objects. The material appears to be washed to eliminate fines. The material appears suitable for proposed use as the 200 mm thick drainage layer in the permanent encapsulation area (PEA) cover system.



Picture # 2: Close up photo of the proposed clear crush drainage gravel. Pen for scale.



**SPERLING
HANSEN
ASSOCIATES**

- Landfill Engineering
- Solid Waste Planning
- Environmental Monitoring
- Landfill Fire Control



Picture # 3: SHA visually inspected the stockpile of proposed sand. SHA inspection confirmed that the material is a fine sand that appears suitable for proposed use as the 50mm thick sand layer above the PEA geomembrane.



Picture # 4: Close up of proposed sand stockpile. Pen for scale.



**SPERLING
HANSEN
ASSOCIATES**

- Landfill Engineering
- Solid Waste Planning
- Environmental Monitoring
- Landfill Fire Control



Picture #5: SHA inspected the stockpile of blast rock. SHA inspection confirmed that the material appears suitable for proposed use of backfill in the soak away trench.



Picture #6: Close up of blast rock stockpile. Pen for scale.



**SPERLING
HANSEN
ASSOCIATES**

- Landfill Engineering
- Solid Waste Planning
- Environmental Monitoring
- Landfill Fire Control



Picture #7: Soak away trench excavated along north toe of the PEA. SHA confirmed that the trench is 2 metres wide by 1 meter deep, as per design.



Picture #8: Soak away trench excavated along north toe of the PEA. SHA confirmed that the trench is 2 metres wide by 1 meter deep, as per design.



**SPERLING
HANSEN
ASSOCIATES**

- Landfill Engineering
- Solid Waste Planning
- Environmental Monitoring
- Landfill Fire Control



Picture #9: Allterra excavating soak away trench at north west toe of PEA.



Picture #10: Allterra backfilling soakaway trench with blast rock, starting at the northwest toe of the PEA.



SPERLING HANSEN ASSOCIATES

- Landfill Engineering
- Solid Waste Planning
- Environmental Monitoring
- Landfill Fire Control



Picture #11: Allterra installed a leachate pipe valve at the south side of the Leachate Storage Facility. This valve has replaced the existing leachate pipe valve located midway between the Leachate Storage Facility and PEA.



Picture #12: New valve location at south side of Leachate Storage Facility.



**SPERLING
HANSEN
ASSOCIATES**

- Landfill Engineering
- Solid Waste Planning
- Environmental Monitoring
- Landfill Fire Control



Picture #13: Allterra installed groundwater well extensions on existing groundwater wells.



Picture #14: Soak away trench on the east side of the PEA has not been developed yet. Soakaway design for this area to be discussed.



SPERLING
HANSEN
ASSOCIATES

- Landfill Engineering
- Solid Waste Planning
- Environmental Monitoring
- Landfill Fire Control



Picture# 15: Fill material stockpiled on the north side of the PEA.

Notes:

1. Allterra has submitted sieve test results for clear crush drainage gravel and sand to SHA for review.
2. Allterra has submitted specification for 8oz and 12oz. non-woven geotextiles to SHA for review.

Report prepared by:

Carly Wolfe, EIT.

Note: Report prepared by Sperling Hansen Associates Inc. If those in attendance have additions or objections to these notes, they should report back to Sperling Hansen Associates (SHA) within 3 days of receipt, otherwise, these notes will be considered a complete and accurate permanent record of this day.

Enclosure: Nil