

Winchendon Landfill Site Observation – March 18, 2021

To: Brian Croteau, DPW Director
FROM: Aaron Sabbs, PE, Tighe & Bond
COPY: Alison Manugian, Conservation & Planning Agent
Alex Fagnand, PE, Tighe & Bond
DATE: April 9, 2021

On March 18, 2021, Aaron Sabbs from Tighe & Bond visited the Winchendon Landfill (hereby referred to as the "Site") to monitor the grading and shaping activities of the Landfill Closure Project. The Site, which is located at 580 River Street, is the former Mabardy Landfill. It is owned and operated by W.L. French Corporation (Operator) as the Winchendon Landfill. As part of the Landfill Closure Project, the Massachusetts Department of Environmental Protection (MassDEP) has permitted the acceptance of up to 415,000 cubic yards of COMM 97-001 material as defined by MassDEP Policy. In accordance with Condition 13 of the Landfill Closure Agreement between the Town and the Operator, the Site was reviewed for compliance with the following documents:

- Corrective Action Design, prepared by Langdon Environmental, LLC, dated June 2019 and revised October 2019.
- Initial Operations Plan, by Langdon Environmental, LLC, dated January 2021, revised to include temporary rip rap settling area.

Landfill Operations

General landfill operations appeared to comply with best practices and the Corrective Action Design. While on site, material was placed within the limits designated for initial placement and was spread by a bulldozer in the general area of Section B-B of Sheet C-5 of the Corrective Action Design.

Stormwater and Erosion

Stormwater conveyances appeared to be in the process of being constructed per the Initial Operations Plan as revised to include a temporary rip rap settling area. This plan was submitted to MassDEP under a Major Permit Modification (BWP SQ 11). A swale from the temporary stormwater basin to the temporary settling area had been constructed, however, the berms and overflow for the temporary stormwater basin had not yet been built. The swale from the northern section of the site to the temporary stormwater basin had also not yet been constructed.

Erosion control was present along the western edge of the site. There were no noted deficiencies in the erosion control.

Material Accepted

Tighe & Bond reviewed the attached Net Daily Summary Report received for the month of February, which details the total tonnage and number of loads of material received by the facility. A total of 32,224.28 tons of material was received in February, which results in

743,511.57 tons remaining of the total 788,500 tons permitted. Based on a utilization factor of 1.9 tons per cubic yard of soil, the total volume received in February was 16,960.15 cubic yards, which results in 391,321.88 cubic yards remaining.

The DEP permit limits the number of loads received to 64 per day without special Town permission. There were no days in February in which the number of loads received was greater than 64.

Enclosed are photographs summarizing the items observed during the site visit.

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Photo 1 - Material delivered to site and placed for grading and shaping.



Photo 2 - Bulldozer spreading subgrade material in the area of Section B-B.



Photo 3 - Temporary stormwater basin. 4' high berm with rip rap overflow not yet constructed.



Photo 4 - Swale between temporary stormwater basin and temporary rip rap settling area

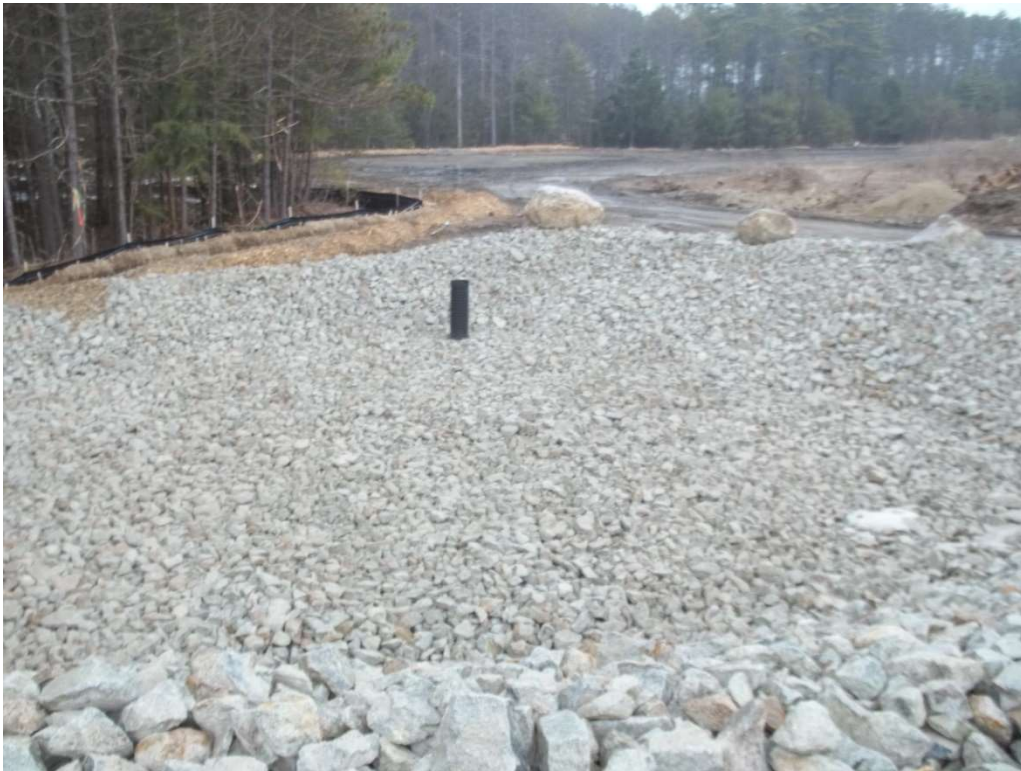


Photo 5 - Temporary rip rap settling area



Photo 6 - Representative view of erosion control on the western limits of the Site

580 River Street, LLC

Gross/Tare/Net Daily Summary

Order: by Job Name Type: All
From 02/01/2021 to 02/28/2021

02/01/2021

| Job Name | Loads | Net | Net Tons |
|---|-------|-----------|----------|
| Dot Block (C20-005-1-B) | 28 | 1,894,240 | 947.12 |
| Stoughton Street Sweepings (T20-0364-2-M) | 3 | 188,420 | 94.21 |
| 02/01/2021 Totals | 31 | 2,082,660 | 1,041.33 |

02/03/2021

| Job Name | Loads | Net | Net Tons |
|-------------------------|-------|-----------|----------|
| Dot Block (C20-005-1-B) | 44 | 2,927,890 | 1,463.95 |
| 02/03/2021 Totals | 44 | 2,927,890 | 1,463.95 |

02/04/2021

| Job Name | Loads | Net | Net Tons |
|--|-------|-----------|----------|
| Dot Block (C20-005-1-B) | 50 | 3,536,630 | 1,768.32 |
| Michael E Haynes Apartments (T20-0268-1-M) | 10 | 729,340 | 364.67 |
| 02/04/2021 Totals | 60 | 4,265,970 | 2,132.99 |

02/05/2021

| Job Name | Loads | Net | Net Tons |
|--|-------|-----------|----------|
| Dot Block (C20-005-1-B) | 43 | 3,080,240 | 1,540.12 |
| Michael E Haynes Apartments (T20-0268-1-M) | 20 | 1,464,294 | 732.15 |
| 02/05/2021 Totals | 63 | 4,544,534 | 2,272.27 |

02/08/2021

| Job Name | Loads | Net | Net Tons |
|--|-------|-----------|----------|
| 195 Bowdoin St Dorchester (T20-0314-1-B) | 16 | 1,119,374 | 559.69 |
| Dot Block (C20-005-1-B) | 29 | 2,018,930 | 1,009.47 |
| 02/08/2021 Totals | 45 | 3,138,304 | 1,569.15 |

02/09/2021

| Job Name | Loads | Net | Net Tons |
|--|-------|-----------|----------|
| 195 Bowdoin St Dorchester (T20-0314-1-B) | 16 | 1,157,820 | 578.91 |
| Dot Block (C20-005-1-B) | 33 | 2,348,690 | 1,174.35 |
| Watertown Greenway (T21-0008-3-B) | 7 | 485,880 | 242.94 |
| 02/09/2021 Totals | 56 | 3,992,390 | 1,996.20 |

02/10/2021

| Job Name | Loads | Net | Net Tons |
|--|-------|-----------|----------|
| 195 Bowdoin St Dorchester (T20-0314-1-B) | 20 | 1,353,094 | 676.55 |
| Dot Block (C20-005-1-B) | 36 | 2,370,660 | 1,185.33 |
| Watertown Greenway (T21-0008-1-B) | 8 | 550,430 | 275.22 |
| 02/10/2021 Totals | 64 | 4,274,184 | 2,137.09 |

02/11/2021

Report Date 3/5/2021 9:09:10 am

580 River Street, LLC

Gross/Tare/Net Daily Summary

Order: by Job Name Type: All
From 02/01/2021 to 02/28/2021

| Job Name | <u>Loads</u> | <u>Net</u> | <u>Net Tons</u> |
|--|--------------|------------|-----------------|
| 195 Bowdoin St Dorchester (T20-0314-1-B) | 14 | 1,069,094 | 534.55 |
| Dot Block (C20-005-1-B) | 40 | 2,758,580 | 1,379.29 |
| Watertown Greenway (T21-0008-1-B) | 8 | 534,160 | 267.08 |
| 02/11/2021 Totals | 62 | 4,361,834 | 2,180.92 |

02/12/2021

| Job Name | <u>Loads</u> | <u>Net</u> | <u>Net Tons</u> |
|--|--------------|------------|-----------------|
| 195 Bowdoin St Dorchester (T20-0314-1-B) | 15 | 1,114,654 | 557.33 |
| Dot Block (C20-005-1-B) | 37 | 2,411,820 | 1,205.91 |
| Watertown Greenway (T21-0008-2-B) | 8 | 547,220 | 273.61 |
| 02/12/2021 Totals | 60 | 4,073,694 | 2,036.85 |

02/17/2021

| Job Name | <u>Loads</u> | <u>Net</u> | <u>Net Tons</u> |
|--|--------------|------------|-----------------|
| Broadway Apartments (T20-0375-1-M) | 31 | 2,170,200 | 1,085.10 |
| Lowell High School (C20-023-1-B) | 18 | 1,133,900 | 566.95 |
| Michael E Haynes Apartments (T20-0268-1-M) | 8 | 550,894 | 275.45 |
| Watertown Greenway (T21-0008-1-B) | 3 | 195,370 | 97.69 |
| 02/17/2021 Totals | 60 | 4,050,364 | 2,025.18 |

02/18/2021

| Job Name | <u>Loads</u> | <u>Net</u> | <u>Net Tons</u> |
|--|--------------|------------|-----------------|
| 195 Bowdoin St Dorchester (T20-0314-1-B) | 12 | 818,000 | 409.00 |
| Broadway Apartments (T20-0375-1-M) | 6 | 430,000 | 215.00 |
| Dot Block (C21-001-1-B) | 11 | 722,800 | 361.40 |
| Lowell High School (C20-023-2-B) | 31 | 2,142,780 | 1,071.39 |
| 02/18/2021 Totals | 60 | 4,113,580 | 2,056.79 |

02/19/2021

| Job Name | <u>Loads</u> | <u>Net</u> | <u>Net Tons</u> |
|--|--------------|------------|-----------------|
| 195 Bowdoin St Dorchester (T20-0314-1-B) | 20 | 1,470,554 | 735.28 |
| Dot Block (C21-001-1-B) | 30 | 2,213,560 | 1,106.78 |
| Lowell High School (C20-023-2-B) | 14 | 940,780 | 470.39 |
| 02/19/2021 Totals | 64 | 4,624,894 | 2,312.45 |

02/22/2021

| Job Name | <u>Loads</u> | <u>Net</u> | <u>Net Tons</u> |
|--|--------------|------------|-----------------|
| 195 Bowdoin St Dorchester (T20-0314-1-B) | 10 | 678,340 | 339.17 |
| CHA Daniel Burns Apts Cambridge (T20-0149-1-M) | 4 | 222,540 | 111.27 |
| Dot Block (C21-001-1-B) | 46 | 3,151,380 | 1,575.69 |
| Michael E Haynes Apartments (T20-0268-1-M) | 4 | 265,960 | 132.98 |
| 02/22/2021 Totals | 64 | 4,318,220 | 2,159.11 |

02/23/2021

580 River Street, LLC

Gross/Tare/Net Daily Summary

Order: by Job Name Type: All
From 02/01/2021 to 02/28/2021

| Job Name | <u>Loads</u> | <u>Net</u> | <u>Net Tons</u> |
|--|--------------|------------|-----------------|
| 195 Bowdoin St Dorchester (T20-0314-1-B) | 6 | 440,820 | 220.41 |
| CHA Daniel Burns Apts Cambridge (T20-0149-1-M) | 2 | 107,500 | 53.75 |
| Dot Block (C21-001-1-B) | 55 | 3,963,220 | 1,981.61 |
| 02/23/2021 Totals | 63 | 4,511,540 | 2,255.77 |

02/24/2021

| Job Name | <u>Loads</u> | <u>Net</u> | <u>Net Tons</u> |
|--|--------------|------------|-----------------|
| 195 Bowdoin St Dorchester (T20-0314-1-B) | 2 | 148,000 | 74.00 |
| Dot Block (C21-001-1-B) | 62 | 4,279,320 | 2,139.66 |
| 02/24/2021 Totals | 64 | 4,427,320 | 2,213.66 |

02/25/2021

| Job Name | <u>Loads</u> | <u>Net</u> | <u>Net Tons</u> |
|--|--------------|------------|-----------------|
| Rutland Catch Basin Cleanings (T21-0014-1-M) | 5 | 333,920 | 166.96 |
| 02/25/2021 Totals | 5 | 333,920 | 166.96 |

02/26/2021

| Job Name | <u>Loads</u> | <u>Net</u> | <u>Net Tons</u> |
|--|--------------|------------|-----------------|
| 195 Bowdoin St Dorchester (T20-0314-1-B) | 8 | 540,720 | 270.36 |
| Dot Block (C21-001-1-B) | 55 | 3,866,550 | 1,933.28 |
| 02/26/2021 Totals | 63 | 4,407,270 | 2,203.64 |

| | <u>Loads</u> | <u>Net</u> | <u>Net Tons</u> |
|--------------------|--------------|-------------------|------------------|
| Grand Total | 928 | 64,448,568 | 32,224.28 |