

Winchendon Landfill Site Observation – January 28, 2022

To: Brian Croteau, DPW Director
FROM: Aaron Sabbs, PE, Tighe & Bond
COPY: Tracy Murphy, Director of Planning and Development & Acting Planning Agent
Alex Fagnand, PE, Tighe & Bond
DATE: February 18, 2022

On January 28, 2022, 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 permit approval issued on September 23, 2020 and Corrective Action Design Plans 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 and spread by bulldozer in the general area of Section B-B of Sheet C-5 of the Corrective Action Design, within the limits designated for initial placement.

Stormwater and Erosion

Stormwater conveyances have been 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, including check dams, has been constructed from the temporary stormwater basin to the temporary settling area. Overflow from the temporary stormwater basin runs to the settling area with a PVC culvert running beneath the access road. The swale from the northern section of the site to the temporary stormwater basin has not yet been constructed.

The swale had previously experienced significant sediment buildup and damage from heavy rainfall. The Operator has rebuilt portions of the swale and check dams, including installing additional rip rap to remedy the damage. The swale will require continued maintenance and cleaning, as sediment is still visible within the swale and settling area. The swale and settling area were full of snow at the time of the site visit.

Erosion control was present along the northern, southern, and western edges 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 January, which details the total tonnage and number of loads of material received by the facility. As indicated in Table 1 below, a total of 28,064.80 tons of material was received in January, which results in 456,483.67 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 January was 14,770.95 cubic yards, which results in 240,254.56 cubic yards remaining. This represents about 58% of the total permitted volume remaining.

Table 1 - Cumulative Material Received

Month-Year	Material Received (tons)	Material Received (cubic yards)
Before Feb-21	12,764.15	6,717.97
Feb-21	32,224.28	16,960.15
Mar-21	26,702.78	14,054.09
Apr-21	22,376.79	11,777.26
May-21	26,096.58	13,735.04
Jun-21	24,834.48	13,070.78
Jul-21	16,002.93	8,422.59
Aug-21	13,708.12	7,214.80
Sep-21	32,160.64	16,926.65
Oct-21	29,375.34	15,460.71
Nov-21	30,332.79	15,964.63
Dec-21	37,372.65	19,669.82
Jan-21	28,064.80	14,770.95
Total	332,016.33	174,745.44
Remaining	456,483.67	240,254.56

The DEP permit limits the number of loads received to 64 per day without special Town permission. There were no days in January 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 – Eastern slope and access road.



Photo 2 – Temporary stormwater overflow catch basin.



Photo 3 – Swale and check dams between temporary stormwater basin and temporary rip rap settling area.



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



Photo 5 - Temporary rip rap settling area.



Photo 6 - Material placed and graded in the central area of the site.



Photo 7 – Representative view of erosion control on the western limits of the Site.



Photo 8 – Southwestern slope and erosion control.



Photo 9 – Grading at monitoring well.



Photo 10 – Existing slope and erosion control at the southern limits of the Site.

580 River Street, LLC

Gross/Tare/Net Daily Summary

Order: by Job Type: All
From 01/01/2022 to 01/31/2022

01/03/2022

Job Name	Loads	Net	Net Tons
ARE - 161 First St Cambridge (C20-007-1-B)	3	137,480	68.74
Allston Yards - BOL (C21-010-1-B)	1	74,000	37.00
15 Bennett St, Somerville, MA (T21-0018-1-B)	3	188,460	94.23
Ragon Inst Group II-1 (T21-0147-1-B)	6	401,580	200.79
Colony Mill Market 222 West St Keene, NH (T21-0:	6	310,360	155.18
Butler Pond Quincy (T21-0380-1-M)	12	586,740	293.37
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01/03/2022 Totals	31	1,698,620	849.31

01/04/2022

Job Name	Loads	Net	Net Tons
Allston Yards - BOL (C21-010-1-B)	1	67,840	33.92
15 Bennett St, Somerville, MA (T21-0018-1-B)	3	211,140	105.57
Ragon Inst Group II-1 (T21-0147-1-B)	10	687,480	343.74
Colony Mill Market 222 West St Keene, NH (T21-0:	3	149,900	74.95
Butler Pond Quincy (T21-0380-1-M)	4	195,080	97.54
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01/04/2022 Totals	21	1,311,440	655.72

01/05/2022

Job Name	Loads	Net	Net Tons
15 Bennett St, Somerville, MA (T21-0018-1-B)	3	231,500	115.75
Lowell Sweepings (T21-0141-1-M)	5	267,680	133.84
Ragon Inst Group II-1 (T21-0147-1-B)	12	862,340	431.17
Ragon Inst Cambridge Group I-1 I-2 (T21-0147-1-M)	4	284,560	142.28
Butler Pond Quincy (T21-0380-1-M)	2	86,600	43.30
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01/05/2022 Totals	26	1,732,680	866.34

01/06/2022

Job Name	Loads	Net	Net Tons
ARE - 161 First St Cambridge (C20-007-1-B)	2	54,540	27.27
15 Bennett St, Somerville, MA (T21-0018-1-B)	2	139,860	69.93
Lowell Sweepings (T21-0141-1-M)	6	416,000	208.00
Ragon Inst Group II-1 (T21-0147-1-B)	12	884,640	442.32
Seaport Parcel L5 (T21-0228-1-M)	4	297,920	148.96
Colony Mill Market 222 West St Keene, NH (T21-0:	5	276,420	138.21
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01/06/2022 Totals	31	2,069,380	1,034.69

01/07/2022

Job Name	Loads	Net	Net Tons
Ragon Inst Group II-1 (T21-0147-1-B)	13	958,160	479.08
Seaport Parcel L5 (T21-0228-1-M)	4	294,960	147.48
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01/07/2022 Totals	17	1,253,120	626.56

01/10/2022

Job Name	Loads	Net	Net Tons
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580 River Street, LLC

Gross/Tare/Net Daily Summary

Order: by Job Type: All
From 01/01/2022 to 01/31/2022

Ragon Inst Group II-1 (T21-0147-1-B)	13	888,220	444.11
Seaport Parcel L5 (T21-0228-1-M)	4	295,000	147.50
Butler Pond Quincy (T21-0380-1-M)	4	211,800	105.90
01/10/2022 Totals		1,395,020	697.51

01/12/2022

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Allston Yards - BOL (C21-010-1-B)	15	1,019,800	509.90
Allston Yards - MSR (C21-010-1-M)	2	143,900	71.95
Residences at 1800 Boylston (T21-0087-1-B)	12	900,780	450.39
Ragon Inst Group II-1 (T21-0147-1-B)	10	691,900	345.95
Seaport Parcel L5 (T21-0228-1-M)	6	410,560	205.28
Butler Pond Quincy (T21-0380-1-M)	2	100,480	50.24
01/12/2022 Totals		3,267,420	1,633.71

01/13/2022

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Allston Yards - BOL (C21-010-1-B)	20	1,502,860	751.43
Ragon Inst Group II-1 (T21-0147-1-B)	20	1,463,240	731.62
Seaport Parcel L5 (T21-0228-1-M)	6	445,240	222.62
Butler Pond Quincy (T21-0380-1-M)	4	194,140	97.07
01/13/2022 Totals		3,605,480	1,802.74

01/14/2022

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Allston Yards - BOL (C21-010-1-B)	12	896,920	448.46
Residences at 1800 Boylston (T21-0087-1-B)	8	609,220	304.61
Ragon Inst Group II-1 (T21-0147-1-B)	9	663,220	331.61
Seaport Parcel L5 (T21-0228-1-M)	6	434,680	217.34
Butler Pond Quincy (T21-0380-1-M)	4	190,240	95.12
01/14/2022 Totals		2,794,280	1,397.14

01/17/2022

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Allston Yards - BOL (C21-010-1-B)	17	1,188,320	594.16
Ragon Inst Group II-1 (T21-0147-1-B)	8	567,300	283.65
Seaport Parcel L5 (T21-0228-2-M)	5	337,140	168.57
01/17/2022 Totals		2,092,760	1,046.38

01/18/2022

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Logan Term E 3000 cuyd Gov Is (T19-0353-4-M)	10	729,040	364.52
Ragon Inst Group II-1 (T21-0147-1-B)	10	749,540	374.77
New Salem St Culvert Wakefield (T21-0260-1-B)	18	1,270,960	635.48
Butler Pond Quincy (T21-0380-1-M)	4	216,700	108.35
Logan Airport Runway 14-32 (T22-1005-1-M)	9	616,000	308.00

580 River Street, LLC

Gross/Tare/Net Daily Summary

Order: by Job Type: All
From 01/01/2022 to 01/31/2022

01/18/2022 Totals	51	3,582,240	1,791.12
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01/19/2022

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Logan Term E 3000 cuyd Gov Is (T19-0353-4-M)	12	966,720	483.36
Residences at 1800 Boylston (T21-0087-1-B)	12	867,360	433.68
Ragon Inst Group II-1 (T21-0147-1-B)	11	781,480	390.74
New Salem St Culvert Wakefield (T21-0260-1-B)	12	876,960	438.48
Butler Pond Quincy (T21-0380-1-M)	3	175,320	87.66
Logan Airport Runway 14-32 (T22-1005-1-M)	10	674,040	337.02
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01/19/2022 Totals	60	4,341,880	2,170.94

01/20/2022

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Allston Yards - BOL (C21-010-1-B)	11	729,300	364.65
Logan Term E 3000 cuyd Gov Is (T19-0353-4-M)	10	787,600	393.80
Ragon Inst Group II-1 (T21-0147-1-B)	12	913,360	456.68
New Salem St Culvert Wakefield (T21-0260-1-B)	10	728,800	364.40
26 South St, Somerville (T21-0359-1-B)	8	426,200	213.10
Butler Pond Quincy (T21-0380-1-M)	4	253,100	126.55
Logan Airport Runway 14-32 (T22-1005-1-M)	9	647,100	323.55
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01/20/2022 Totals	64	4,485,460	2,242.73

01/21/2022

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Allston Yards - BOL (C21-010-1-B)	12	807,780	403.89
Logan Term E 3000 cuyd Gov Is (T19-0353-4-M)	11	848,020	424.01
5 Washington Street (T20-0270-1-B)	2	110,140	55.07
Union 346 (T21-0025-2-B)	7	493,300	246.65
26 South St, Somerville (T21-0359-1-B)	4	197,360	98.68
Butler Pond Quincy (T21-0380-1-M)	3	169,760	84.88
Boston Sci Hanscom Bedford 1000 cuyd (T22-1001-	11	801,960	400.98
Logan Airport Runway 14-32 (T22-1005-1-M)	10	686,920	343.46
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01/21/2022 Totals	60	4,115,240	2,057.62

01/24/2022

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Allston Yards - BOL (C21-010-1-B)	4	275,580	137.79
GLX (T18-0354-4-M)	5	335,640	167.82
Logan Term E 3000 cuyd Gov Is (T19-0353-4-M)	10	747,600	373.80
5 Washington Street (T20-0270-1-B)	4	199,700	99.85
Ragon Inst Group II-1 (T21-0147-1-B)	11	794,360	397.18
Seaport Parcel L5 (T21-0228-1-M)	4	265,880	132.94
Butler Pond Quincy (T21-0380-1-M)	4	195,480	97.74
Boston Sci Hanscom Bedford 1000 cuyd (T22-1001-	9	581,020	290.51
Logan Airport Runway 14-32 (T22-1005-1-M)	10	642,980	321.49

580 River Street, LLC

Gross/Tare/Net Daily Summary

Order: by Job Type: All
From 01/01/2022 to 01/31/2022

01/24/2022 Totals	61	4,038,240	2,019.12
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01/25/2022

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Logan Term E 3000 cuyd Gov Is (T19-0353-4-M)	10	784,720	392.36
MassPort Terminal B-C Connector (T19-0449-1-M)	14	1,003,580	501.79
Union 346 (T21-0025-2-B)	8	606,560	303.28
Ragon Inst Group II-1 (T21-0147-1-B)	17	1,174,660	587.33
Butler Pond Quincy (T21-0380-1-M)	2	100,840	50.42
Meridan CT Catch Basin Cleanings (T22-6015-1-M)	10	456,960	228.48
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01/25/2022 Totals	61	4,127,320	2,063.66

01/26/2022

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Logan Term E 3000 cuyd Gov Is (T19-0353-4-M)	4	327,160	163.58
MassPort Terminal B-C Connector (T19-0449-1-M)	10	705,560	352.78
Union 346 (T21-0025-2-B)	8	621,660	310.83
Residences at 1800 Boylston (T21-0087-1-B)	12	822,240	411.12
Bridge Street Reconstruction (T21-0305-1-B)	10	685,660	342.83
215 Canal Street Lawrence (T21-0346-1-M)	8	558,940	279.47
Butler Pond Quincy (T21-0380-1-M)	4	192,160	96.08
Meridan CT Catch Basin Cleanings (T22-6015-1-M)	6	281,900	140.95
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01/26/2022 Totals	62	4,195,280	2,097.64

01/27/2022

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
MassPort Terminal B-C Connector (T19-0449-1-M)	20	1,383,540	691.77
Bridge Street Reconstruction (T21-0305-1-B)	2	130,840	65.42
Logan Airport Terminals B-C (T21-0323-1-M)	11	807,040	403.52
215 Canal Street Lawrence (T21-0346-1-M)	7	509,300	254.65
Butler Pond Quincy (T21-0380-1-M)	3	141,240	70.62
Meridan CT Catch Basin Cleanings (T22-6015-1-M)	2	100,980	50.49
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01/27/2022 Totals	45	3,072,940	1,536.47

01/28/2022

Job Name	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
MassPort Terminal B-C Connector (T19-0449-1-M)	17	1,214,040	607.02
Logan Airport Terminals B-C (T21-0323-1-M)	12	864,100	432.05
215 Canal Street Lawrence (T21-0346-1-M)	5	345,380	172.69
Butler Pond Quincy (T21-0380-1-M)	4	224,520	112.26
Eversource 5 Myrtle St Taunton (T22-1014-1-B)	3	207,660	103.83
Meridan CT Catch Basin Cleanings (T22-6015-1-M)	2	95,100	47.55
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01/28/2022 Totals	43	2,950,800	1,475.40

580 River Street, LLC
Gross/Tare/Net Daily Summary

Order: by Job Type: All
From 01/01/2022 to 01/31/2022

	<u>Loads</u>	<u>Net</u>	<u>Net Tons</u>
Grand Total	820	56,129,600	28,064.80