

Overlook Ridge (Lorton Landfill) - Landscape Progress Report

Landscape Planting Progress through the Fall of 2017 *

September 26, 2017

Phase 1 **	Plants or s.f. Req'd	Qty. Planted	% Complete
Trees - Benches	1,304	1,304	100.0%
Trees - Ponds	234	234	100.0%
Shrubs - Benches	874	874	100.0%
Shrubs - Pond	407	407	100.0%
Shrubs - Pond (GC Substitutes)	421	421	100.0%
Shrubs - Hillside	5,600	5,600	100.0%
Wildflower Seeding - Hillside (s.f.)	60,000	60,000	100.0%
Wildflower Seeding - Misc. (s.f.)	454,227	454,227	100.0%
Totals	523,067	523,067	100.0%

Phase 2 ***	Plants or s.f. Req'd	Qty. Planted	% Complete
Trees - Benches	1,383	1,005	72.7%
Shrubs - Benches	1,003	735	73.3%
Shrubs - Hillside	10,416	6,483	62.2%
Wildflower Seeding - Hillside (s.f.)	111,600	69,443	62.2%
Totals	124,402	77,666	62.4%

Phase 3 ***	Plants or s.f. Req'd	Qty. Planted	% Complete
Trees - Benches	570	34	6.0%
Shrubs - Benches	414	26	6.3%
Shrubs - Hillside	5,600	1,496	26.7%
Wildflower Seeding - Hillside (s.f.)	60,000	16,032	26.7%
Totals	66,584	17,588	26.4%

Phase 4 ***	Plants or s.f. Req'd	Qty. Planted	% Complete
Trees - Benches	655	0	0.0%
Shrubs - Benches	491	0	0.0%
Shrubs - Hillside	4,386	0	0.0%
Wildflower Seeding - Hillside (s.f.)	46,800	0	0.0%
Totals	52,332	0	0.0%

* Includes plants scheduled for planting in October 2017.

** Required quantities adjusted for UFMD approved plant coverage area for plant substitutions (See Sheet 3).

*** Required quantities adjusted for UFMD approved plant coverage area for plant substitutions (See Sheet 4).

Overlook Ridge (Lorton Landfill) - Landscape Progress Report

Landscape Planting Progress through the Fall of 2017 *

September 26, 2017

Phase 5 **	Plants or s.f. Req'd	Qty. Planted	% Complete
Trees - Benches	249	0	0.0%
Shrubs - Benches	177	0	0.0%
Shrubs - Hillside	2,016	0	0.0%
Wildflower Seeding - Hillside (s.f.)	21,600	0	0.0%
Totals	24,042	0	0.0%

Reforestation Area ***	Plants or s.f. Req'd	Qty. Planted	% Complete
Trees	369	369	100.0%
Shrubs	800	800	100.0%
Totals	1,169	1,169	100.0%

Replacement Plants Provided	Trees	Shrubs	Total Plants
Fall 2013	952	860	1,812
Spring 2014	93	408	501
Fall 2014	40	58	98
Spring 2015 (Deferred to Fall 2015)	0	0	0
Fall 2015	73	600	673
Spring 2016 (Deferred to Fall 2016)	0	0	0
Fall 2016	47	148	195
Spring 2017	135	347	482
Fall 2017	45	116	161
Total Replacements Planted	1,385	2,537	3,922

* Includes plants scheduled for planting in October 2017.

** Required quantities adjusted for UFMD approved plant coverage area for plant substitutions (See Sheet 4).

*** Required quantities adjusted for increased reforestation area and UFMD approved increased plant sizes (See Sheet 4).

Overlook Ridge (Lorton Landfill) - Landscape Progress Report

Landscape Coverage Calculations for Plant Substitutions

September 26, 2017

UFMD Approved Plant Coverage Area for Plant Substitutions to Replace Perennials/Groundcover

Phase 1 - Stormwater Management Ponds

Site Plan Approved Plant Coverage Area

	Plants Required	s.f./Plant	Total Area (s.f.)
Perennials	1,629	2.25	3,665
Perennials	1,713	4.00	6,852
Total	3,342		10,517

UFMD Approved Plant Coverage Area for Plant Substitutions

	Plants Required	s.f./Plant	Total Area (s.f.)
Shrubs	421	25.00	10,525
Total	421		10,525

Phase 1 - Hillside Area Coverage (Total Phase Area)

Site Plan Approved Plant Area Coverage

	Plants or s.f. Req'd	s.f./Plant	Total Phase Area (s.f.)
Shrubs	2,800	25.00	70,000
Perennials/Groundcover	22,100	4.00	88,400
Wildflower (s.f.)	41,600	1.00	41,600
Total	66,500		200,000

UFMD Approved Plant Coverage Area for Plant Substitutions

	Plants or s.f. Req'd	s.f./Plant	Total Phase Area (s.f.)
Shrubs	5,600	25.00	140,000
Wildflower (s.f.)	60,000	1.00	60,000
Total	65,600		200,000

Overlook Ridge (Lorton Landfill) - Landscape Progress Report

Landscape Coverage Calculations for Plant Substitutions

September 26, 2017

UFMD Approved Plant Coverage Area for Plant Substitutions to Replace Perennials/Groundcover

Phases 2 - 5 Hillside Area Coverage (per 4,000 s.f.)

Site Plan Approved Plant Coverage Area

	Plants or s.f. Req'd	s.f./Plant	Total Area (s.f.)
Shrubs	56	25.00	1,400
Groundcover	442	4.00	1,768
Wildflower (s.f.)	832	1.00	832
Total	1,330		4,000

UFMD Approved Plant Coverage Area for Plant Substitutions

	Plants or s.f. Req'd	s.f./Plant	Total Area (s.f.)
Shrubs	112	25.00	2,800
Wildflower (s.f.)	1,200	1.00	1,200
Total	1,312		4,000

Phases 2 - 5 Hillside Area Coverage (Total Phase Area)

Site Plan Approved Plant Coverage Area

	Total Phase Area (s.f.)	Shrubs Required	Groundcover Required	Wildflower Required	Total Plants Required
Phase 2	372,000	5,208	41,106	77,376	123,690
Phase 3	200,000	2,800	22,100	41,600	66,500
Phase 4	156,000	2,184	17,238	32,448	51,870
Phase 5	72,000	1,008	7,956	14,976	23,940
Total	800,000	11,200	88,400	166,400	266,000

UFMD Approved Plant Coverage Area for Plant Substitutions

	Total Phase Area (s.f.)	Shrubs Required	Groundcover Required	Wildflower Required	Total Plants Required
Phase 2	372,000	10,416	0	111,600	122,016
Phase 3	200,000	5,600	0	60,000	65,600
Phase 4	156,000	4,368	0	46,800	51,168
Phase 5	72,000	2,016	0	21,600	23,616
Total	800,000	22,400	0	240,000	262,400

Overlook Ridge (Lorton Landfill) - Landscape Progress Report

Landscape Coverage Calculations for Increased Plant Sizes

September 26, 2017

UFMD Approved Plant Coverage Area for Increased Plant Sizes - Reforestation Area Only

Reforestation Area - 52,883 s.f. *

Reforestation Area Plant Calculations (based on Site Plan Approved Plant Spacing).

Plant Type	Stock Type	Plant Spacing (s.f.) **	Total Area (s.f.)	Plants Required
Trees (2'-3' Length)	Bareroot Seedling	100	52,883	529
Shrubs (18" Length)	Bareroot Seedling	25	52,883	2,116

Plant Coverage Area

Plant Type	Stock Type	Coverage Credit (s.f.)	Plants Required	Total Area (s.f.)
Trees (2'-3' Length)	Bareroot Seedling	20	529	10,580
Shrubs (18" Length)	Bareroot Seedling	20	2,116	42,320
				52,900

UFMD Approved Plant Coverage Area for Increased Plant Sizes

Plant Type	Stock Type	Coverage Credit (s.f.)	Plants Required	Total Area (s.f.)
Trees (1/2" Cal.)	Container	100	369	36,900
Shrubs (18" Spread)	Container	20	800	16,000
				52,900

* Increased reforestation area due to removal of invasive species.

** Plant spacing based on Site Plan approved 10 trees per 1,000 s.f. (100 s.f./tree) and 40 shrubs per 1,000 s.f. (25 s.f./shrub).

Overlook Ridge (Lorton Landfill) - Landscape Progress Report

Overall Landscape Planting Progress through the Fall of 2017 *

September 26, 2017

Overall Project Progress - All Plants	Plants or s.f. Req'd	Qty. Planted	% Complete
Phase 1	523,067	523,067	100.0%
Phase 2	124,402	77,666	62.4%
Phase 3	66,584	17,588	26.4%
Phase 4	52,332	0	0.0%
Phase 5	24,042	0	0.0%
Reforestation Area	1,169	1,169	100.0%
Total Project Progress	791,596	619,490	78.3%

Overall Project Progress - Trees	Qty. Required	Qty. Planted	% Complete
Phase 1	1,538	1,538	100.0%
Phase 2	1,383	1,005	72.7%
Phase 3	570	34	6.0%
Phase 4	655	0	0.0%
Phase 5	249	0	0.0%
Reforestation Area	369	369	100.0%
Total Project Progress	4,764	2,946	61.8%

Overall Project Progress - Shrubs	Qty. Required	Qty. Planted	% Complete
Phase 1	7,302	7,302	100.0%
Phase 2	11,419	7,218	63.2%
Phase 3	6,014	1,522	25.3%
Phase 4	4,877	0	0.0%
Phase 5	2,193	0	0.0%
Reforestation Area	800	800	100.0%
Total Project Progress	32,605	16,842	51.7%

Overall Project Progress - Wildflower	Qty. Required	Qty. Planted	% Complete
Phase 1	514,227	514,227	100.0%
Phase 2	111,600	69,443	62.2%
Phase 3	60,000	16,032	26.7%
Phase 4	46,800	0	0.0%
Phase 5	21,600	0	0.0%
Reforestation Area	0	0	0.0%
Total Project Progress	754,227	599,702	79.5%

* Includes plants scheduled for planting in October 2017.