

APPENDIX A

LEACHATE QUALITY TEST RESULTS

(summary data included,
complete data available upon request)

Leachate Parameters Detected - Phase 1-2N
 Project XL
 Maplewood Recycling and Waste Disposal Facility
 Amelia County, Virginia

Parameter	Units	MCL	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
1,1-Dichloroethene	ug/L	7	< 25	< 25	-	-	-	<10	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	NA	-	-	16	16	15	10	15	14	10	14	9.3	10.3	14.1	13.4	15.1
2 Naphthylamine	ug/L	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
4-Methyl-2-Pentanone	ug/L	NA	-	-	800	-	-	-	-	-	-	5	-	6.1	-	-	-
Acetone	ug/L	NA	-	-	12100	-	-	42	-	-	-	-	-	25.1	14.8	10.6	-
Acetonitrile	ug/L	NA	-	-	1060	-	-	-	93	-	93	-	-	-	48.8	21.5	-
Benzene	ug/L	5	< 25	< 25	7	8	7	-	8	7	-	6	-	-	7.1	5.6	5.5
Benzo(a)pyrene	ug/L	0.2	< 10	< 10	< 10	< 10	<26	<26	<26	<10	<10	<10	<17	<34	<34	<10	<10
Carbon Tetrachloride	ug/L	5	< 25	< 25	-	-	-	<10	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	700	43	56	56	55	58	-	55	51	-	39	26.9	5.6	41.9	27.1	49.9
Hexachlorobenzene	ug/L	1	< 10	< 10	< 10	< 10	<21	<21	<21	<10	<10	<10	<10	<11	<11	<23	<10
m,p-Cresol	ug/L	NA	-	-	16	-	-	-	-	-	-	-	-	-	<53	<106	-
Methyl Ethyl Ketone	ug/L	NA	-	-	-	-	-	-	-	-	-	-	-	9.9	52.1	36.1	-
Naphthalene	ug/L	NA	14	19	-	21	-	-	-	-	12	22	11	-	<21	16	23
Phenol	ug/L	NA	-	-	2200	-	-	-	-	-	-	-	-	-	-	<22	-
Toluene	ug/L	1000	-	-	-	-	-	-	-	-	-	8	-	6.5	-	2.3	1.5
Total Xylene	ug/L	10000	87	114	130	134	114	39	148	142	53	92	75.9	20.3	108	92	82.9
Trichloroethene	ug/L	5	< 25	< 25	-	-	-	<10	-	-	-	-	-	-	-	-	-
Vinyl Chloride	ug/L	2	< 10	< 10	-	-	-	5	4	-	-	14	-	-	<2	-	-

Notes:

This table summarizes the leachate parameters that were detected in Phase 1-2N. Samples where the concentration may be greater than the MCL are show in in **bold**.
 In some cases, the method detection limit is higher than the MCL.

Leachate Parameters Detected - Phase 1-2S
 Project XL
 Maplewood Recycling and Waste Disposal Facility
 Amelia County, Virginia

Parameter	Units	MCL	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
1,1-Dichloroethane	ug/L	NA	-	-	-	-	-	-	-	-	6	-	-	-	-	2	-
1,1-Dichloroethene	ug/L	7	< 25	< 25	< 10	-	<10	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	70	14	-	-	-	-	-	-	-	-	-	-	-	-	< 24	-
1,4-Dichlorobenzene	ug/L	NA	-	26	11	13	11	14	16	16	11	14	14.2	16.6	16.5	18.9	17.7
2 Naphthylamine	ug/L	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46
Acetone	ug/L	NA	-	-	-	-	-	-	-	-	31	-	-	-	10.7	< 10	-
Acetonitrile	ug/L	NA	-	-	-	-	-	-	-	-	-	-	-	-	40	36.5	33.5
Benzene	ug/L	5	< 25	< 25	< 10	8	<10	10	8	10	-	7	7.1	8.1	-	7.6	6.7
Benzo(a)pyrene	ug/L	0.2	< 10	< 10	< 10	< 10	<26	<26	<26	<10	<10	<10	<17	<34	<32	< 10	< 10
Carbon Tetrachloride	ug/L	5	< 25	< 25	< 10	-	<10	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	700	53	134	41	35	37	34	61	79	-	-	44.2	11	-	30.5	43.7
Hexachlorobenzene	ug/L	1	< 10	< 10	< 10	< 10	<21	<21	<21	<10	-	10	<10	<11	<11	< 11	< 11
Methyl Ethyl Ketone	ug/L	NA	-	-	-	-	-	-	-	-	31	16	-	-	-	< 5.0	< 5.0
Napthalene	ug/L	NA	-	-	-	-	-	-	-	-	-	10	10	-	-	15	16
o-Toluidine	ug/L	NA	-	-	-	-	-	-	-	14	-	-	-	-	-	< 63	-
Phenol	ug/L	NA	-	-	-	-	-	-	-	-	-	-	-	-	24	< 11	< 11
Toluene	ug/L	1000	-	-	-	-	-	-	-	16	-	17	-	-	-	12.5	4.4
Total Xylene	ug/L	10000	133	336	146	166	146	167	203	188	6	101	122	153	20.5	191	188
Trichloroethene	ug/L	5	< 25	< 25	< 10	-	<10	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	ug/L	2	< 10	< 10	< 4	-	<4	-	-	3	-	3	-	-	-	-	-

Notes:

This table summarizes the leachate parameters that were detected in Phase 1-2S. Samples where the concentration may be greater than the MCL are show in in **bold**.

In some cases, the method detection limit is higher than the MCL.

Leachate Parameters Detected - Phase 3
 Project XL
 Maplewood Recycling and Waste Disposal Facility
 Amelia County, Virginia

Parameter	Units	MCL	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
1,1-Dichloroethene	ug/L	7	< 100	< 25	< 25	< 10	<10	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	70	< 100	-	-	-	<73	-	-	-	-	-	-	-	-	< 24	-
1,4-Dichlorobenzene	ug/L	NA	-	-	-	11	13	-	16	12	11	14	11.6	13.6	10.5	13.7	14.3
2,4 Dimethylphenol	ug/L	NA	-	-	-	-	-	-	-	-	17	-	-	18	-	< 16	18
4-Methyl-2-Pentanone	ug/L	NA	-	-	47	173	-	-	6	-	-	-	-	-	-	3.7	3.1
Acetone	ug/L	NA	1070	-	1060	-	-	-	36	22	29	21	-	27.4	26.5	13.6	17.3
Acetonitrile	ug/L	NA	385	-	272	-	144	-	295	138	143	125	152	143	248	236	164
Benzene	ug/L	5	< 100	< 25	< 25	< 10	<10	-	-	-	-	-	-	-	-	3.3	3.3
Benzo(a)pyrene	ug/L	0.2	< 100	< 10	< 20	< 10	<100	-	<53	<10	<10	<10	<34	<30	<64	< 10	< 10
Carbon Tetrachloride	ug/L	5	< 100	< 25	< 25	< 10	<10	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	70	< 100	-	-	-	-	-	-	6	6	9	7.2	-	6.6	8.8	9.7
Ethylbenzene	ug/L	700	-	30	49	-	31	-	44	30	13	35	25.1	30.2	23.6	30.7	31.1
Hexachlorobenzene	ug/L	1	< 100	< 10	< 20	< 10	<83	-	<42	<10	<10	<10	<11	<10	<22	< 11	< 11
Hexachlorocyclopentadiene	ug/L	50	< 500	-	-	-	<57	-	-	-	-	-	<240	<210	<450	< 240	<58
m,p-Cresol	ug/L	NA	420	32	71	43	<170	-	<84	-	29	-	57	-	-	< 53	27
Methyl Ethyl Ketone	ug/L	NA	917	-	1680	12	-	-	16	9	-	6	8.3	6	-	< 5.0	7.1
Naphthalene	ug/L	NA	-	-	-	10	-	-	-	-	-	15	-	-	-	21	23
o-Cresol	ug/L	NA	-	28	29	43	<68	-	<34	45	52	57	45	36	56	44	37
o-Toluidine	ug/L	NA	-	-	-	-	-	-	-	27	-	-	-	-	-	< 63	-
Toluene	ug/L	1000	233	105	155	67	86	-	135	91	61	101	84.3	96.9	77.7	87.3	78.1
Total Xylene	ug/L	10000	194	109	134	78	108	-	128	89	61	103	72.7	89.8	69.2	88.3	92
Trichloroethene	ug/L	5	< 100	< 25	< 25	< 10	<10	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	ug/L	2	< 40	< 10	< 10	< 4	<4	-	-	-	-	-	-	-	-	-	1.2

Notes:

This table summarizes the leachate parameters that were detected in Phase 3. Samples where the concentration may be greater than the MCL are show in in **bold**.

In some cases, the method detection limit is higher than the MCL.

Leachate Parameters Detected - Phase 4
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

Parameter	Units	MCL	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
1,1-Dichloroethene	ug/L	7	< 50	< 25	< 50	< 100	<50	-	<25	<25	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	70	< 710	-	-	-	<73	-	-	-	-	-	-	-	-	< 98	<23
1,4-Dichlorobenzene	ug/L	NA	-	-	-	-	-	-	-	-	-	9	8.3	12.5	6.5	9.7	5.6
2,4-Dimethylphenol	ug/L	NA	-	-	-	57	-	-	<84	-	-	-	22	78	51	73	-
2-Hexanone	ug/L	NA	-	-	-	-	-	-	-	-	-	-	12.2	44.2	38.7	33	-
2-Methyl-1-propanol	ug/L	NA	9780	-	-	6920	9330	-	6010	4020	-	-	-	-	2430	2050	-
4-Methyl-2-Pentanone	ug/L	NA	795	227	800	1180	1460	-	730	1350	-	-	108	-	207	242	1.3
Acenaphthylene	ug/L	NA	-	-	-	12	-	-	-	-	-	-	-	-	-	< 10	-
Acetone	ug/L	NA	6990	3950	12100	11500	33900	-	46600	6050	-	-	3170	8480	9080	7090	10.1
Acetonitrile	ug/L	NA	1340	564	1060	1450	1260	-	1420	605	-	78	287	453	580	417	79.9
Acetophenone	ug/L	NA	-	-	81	88	220	-	62	36	-	-	-	120	-	< 230	-
Benzene	ug/L	5	< 50	< 25	< 50	< 100	<50	-	<25	<25	-	5	-	6.6	-	4.6	5
Benzo(a)pyrene	ug/L	0.2	< 710	< 20	< 10	< 10	<100	-	<52	<10	<10	<10	<32	<50	<64	< 10	< 10
Benzyl Alcohol	ug/L	NA	-	-	-	180	230	-	<32	210	-	-	38	500	300	330	-
Carbon Tetrachloride	ug/L	5	< 50	-	< 50	< 100	<50	-	<50	<25	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	70	-	-	-	< 100	-	-	-	-	-	-	-	-	-	5.1	1.3
Diethyl Phthalate	ug/L	NA	-	24	-	43	-	-	-	-	-	-	-	68	66	< 120	68
Ethylbenzene	ug/L	700	58	34	-	-	-	-	40	44	16	25	16.7	28.7	11.8	19.8	20
Hexachlorobenzene	ug/L	1	< 710	< 20	< 10	< 10	<83	-	<41	<10	<10	<10	<11	<17	<22	< 46	<11
Hexachlorocyclopentadiene	ug/L	50	< 3600	-	-	-	<57	-	-	-	-	-	<220	<350	<66	< 950	<58
m,p-Cresol	ug/L	NA	2000	496	900	1760	2800	-	-	860	-	-	800	4300	2030	3400	14
Methyl Ethyl Ketone	ug/L	NA	9830	4010	17100	15700	48400	-	62900	9320	-	14	3810	9050	9820	5660	8.5
Naphthalene	ug/L	NA	-	-	-	20	<68	-	<34	-	-	-	-	38	-	25	14
o-Cresol	ug/L	NA	-	44	180	41	-	-	-	-	-	-	24	82	120	98	-
Phenanthrene	ug/L	NA	-	-	-	29	-	-	-	-	-	-	-	-	-	< 10	-
Phenol	ug/L	NA	4700	770	2200	1500	2000	-	9660	580	-	-	820	4900	3900	3600	-
Styrene	ug/L	NA	-	-	-	-	-	-	-	-	-	-	-	5.8	-	3.7	-
Toluene	ug/L	1000	326	180	173	170	190	-	209	198	-	34	58	<500	47.4	87.6	26.1
Total Xylene	ug/L	10000	147	89	79	-	96	-	109	120	45	68	44.6	84.4	35.5	59.9	53.7
Trichloroethene	ug/L	5	< 50	< 25	< 50	< 100	<50	-	<25	<25	-	-	-	-	-	-	-
Vinyl Chloride	ug/L	2	< 20	< 10	< 20	< 40	<20	-	<10	<10	-	2	-	<56	-	-	1.4

Notes:

This table summarizes the leachate parameters that were detected in Phase 4. Samples where the concentration may be greater than the MCL are show in in **bold**.
In some cases, the method detection limit is higher than the MCL.

Leachate Parameters Detected - Leachate Tank
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

Parameter	Units	MCL	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
1,1-Dichloroethene	ug/L	7	< 25	< 50	< 10	< 50	<25	<250	<50	<25	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2
2,4 Dimethylphenol	ug/L	NA	-	-	-	-	-	-	-	-	17	-	16	22	-	73	-
2-Hexanone	ug/L	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5
4-Methyl-2-Pentanone	ug/L	NA	-	167	121	194	397	537	646	55	-	-	-	-	-	242	70
Acetone	ug/L	NA	-	-	1690	7700	15600	18300	23600	-	-	-	-	26.3	26.1	7090	1340
Acetonitrile	ug/L	NA	183	-	146	-	-	-	-	266	176	123	137	129	255	417	107
Acetophenone	ug/L	NA	-	-	-	23	-	27	36	-	-	-	-	-	-	< 230	-
Benzene	ug/L	5	< 25	< 50	< 10	< 50	<25	<250	<50	<25	-	-	-	-	-	4.6	2.2
Benzo(a)pyrene	ug/L	0.2	< 10	< 20	< 10	< 10	<53	<100	<53	<10	<10	<10	<32	<30	<340	< 10	-
Carbon Tetrachloride	ug/L	5	< 25	< 50	< 10	-	<25	<250	<50	<25	-	-	-	-	-	-	-
Ethylbenzene	ug/L	700	-	-	-	-	-	-	-	-	9	7	-	-	-	19.8	8
Hexachlorobenzene	ug/L	1	< 10	< 20	< 10	< 10	<42	<83	<42	<10	<10	<10	<11	<10	<110	< 46	-
Hexachlorocyclopentadiene	ug/L	50	28	-	-	-	-	<57	-	-	-	-	<220	<210	<2400	< 140	<58
m,p-Cresol	ug/L	NA	-	-	82	134	-	81	67	99	93	-	34	-	-	3400	118
Methyl Ethyl Ketone	ug/L	NA	-	-	3750	11100	24500	25400	30500	85	-	-	10.4	19.2	19.7	5660	858
Napthalene	ug/L	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
o-Cresol	ug/L	NA	-	21	-	-	-	-	-	-	-	18	-	-	-	98	21
o-Toluidine	ug/L	NA	-	-	-	-	-	-	-	21	-	24	-	-	-	< 250	-
Phenol	ug/L	NA	-	56	72	150	-	200	91	-	-	-	69	12	2100	3600	110
Toluene	ug/L	1000	86	380	50	-	41	-	-	79	50	34	17.6	25.2	16.9	87.6	34
Total Xylene	ug/L	10000	-	52	23	-	36	-	-	62	24	18	10.1	12	7.1	59.9	24.2
Trichloroethene	ug/L	5	< 25	< 50	< 10	< 50	<25	<250	<50	<25	-	-	-	-	-	-	-
Vinyl Chloride	ug/L	2	< 10	< 20	< 4	< 20	<10	<100	<20	<10	-	-	-	-	-	-	1.7

Notes:

This table summarizes the leachate parameters that were detected in the Leachate Tank. Samples where the concentration may be greater than the MCL are show in in **bold**.

In some cases, the method detection limit is higher than the MCL.