

Classification of sample: WS11-16/01/2020-0.70m

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS11-16/01/2020-0.70m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
11.7%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11.7% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2	mg/kg	1.197	2.114	mg/kg	0.000211 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				11.5	mg/kg	1.32	13.407	mg/kg	0.00134 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				2.6	mg/kg	1.142	2.623	mg/kg	0.000262 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide }				39.3	mg/kg	1.462	50.719	mg/kg	0.00507 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.3	mg/kg	1.923	<0.577	mg/kg	<0.0000577 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	copper { dicopper oxide; copper (I) oxide }				36	mg/kg	1.126	35.79	mg/kg	0.00358 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	16	mg/kg	1.56	22.037	mg/kg	0.00141 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	molybdenum { molybdenum(VI) oxide }				4	mg/kg	1.5	5.299	mg/kg	0.00053 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
10	nickel { nickel chromate }				47.4	mg/kg	2.976	124.569	mg/kg	0.0125 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1	mg/kg	2.554	2.255	mg/kg	0.000225 %	✓	
	034-002-00-8											
12	zinc { zinc chromate }				83	mg/kg	2.774	203.314	mg/kg	0.0203 %	✓	
	024-007-00-3											
13	TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									



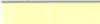
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Geotechnical & Environmental

HazWasteOnline™

Report created by Barry Sexton on 12 Feb 2020

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	pH		PH		8.6 pH		8.6 pH	8.6 pH			
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		201-695-5	86-73-7								
24	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		204-371-1	120-12-7								
26	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-912-4	206-44-0								
27	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		204-927-3	129-00-0								
28	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-883-8	191-24-2								
36	polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %			<LOD
	602-039-00-4	215-648-1	1336-36-3								
37	barium { barium oxide }				113 mg/kg	1.117	111.404 mg/kg	0.0111 %		✓	
		215-127-9	1304-28-5								
38	coronene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-881-7	191-07-1								
39	benzo[j]fluoranthene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-035-00-X	205-910-3	205-82-3								
Total:									0.062 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS11-16/01/2020-1.70m

✔ **Non Hazardous Waste**
Classified as 17 05 04
in the List of Waste

Sample details

Sample Name: **WS11-16/01/2020-1.70m** LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content: **10.9%** Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(wet weight correction)

Hazard properties

None identified

Determinands

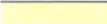
Moisture content: 10.9% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				2 mg/kg	1.197	2.133 mg/kg	0.000213 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				10.6 mg/kg	1.32	12.47 mg/kg	0.00125 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				2.9 mg/kg	1.142	2.952 mg/kg	0.000295 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide }				37.5 mg/kg	1.462	48.834 mg/kg	0.00488 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.3 mg/kg	1.923	<0.577 mg/kg	<0.0000577 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				32 mg/kg	1.126	32.101 mg/kg	0.00321 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	16 mg/kg	1.56	22.237 mg/kg	0.00143 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	molybdenum { molybdenum(VI) oxide }				4 mg/kg	1.5	5.347 mg/kg	0.000535 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
10	nickel { nickel chromate }				37.9 mg/kg	2.976	100.505 mg/kg	0.0101 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	034-002-00-8									
12	zinc { zinc chromate }				103 mg/kg	2.774	254.592 mg/kg	0.0255 %	✓	
	024-007-00-3									
13	TPH (C6 to C40) petroleum group		TPH		<52 mg/kg		<52 mg/kg	<0.0052 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	pH				8.57 pH		8.57 pH	8.57 pH			
			PH								
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		201-695-5	86-73-7								
24	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		204-371-1	120-12-7								
26	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-912-4	206-44-0								
27	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		204-927-3	129-00-0								
28	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-883-8	191-24-2								
36	polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %			<LOD
	602-039-00-4	215-648-1	1336-36-3								
37	barium { barium oxide }				65 mg/kg	1.117	64.662 mg/kg	0.00647 %		✓	
		215-127-9	1304-28-5								
38	coronene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-881-7	191-07-1								
39	benzo[j]fluoranthene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-035-00-X	205-910-3	205-82-3								
Total:									0.0595 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS11-16/01/2020-2.20m

✔ **Non Hazardous Waste**
Classified as 17 05 04
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS11-16/01/2020-2.20m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
10.6%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

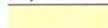
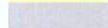
Determinands

Moisture content: 10.6% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2	mg/kg	1.197	2.14	mg/kg	0.000214 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				10.2	mg/kg	1.32	12.04	mg/kg	0.0012 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				2	mg/kg	1.142	2.042	mg/kg	0.000204 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide }				50.8	mg/kg	1.462	66.377	mg/kg	0.00664 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.3	mg/kg	1.923	<0.577	mg/kg	<0.0000577 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	copper { dicopper oxide; copper (I) oxide }				32	mg/kg	1.126	32.209	mg/kg	0.00322 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	18	mg/kg	1.56	25.101	mg/kg	0.00161 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	molybdenum { molybdenum(VI) oxide }				5.1	mg/kg	1.5	6.84	mg/kg	0.000684 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
10	nickel { nickel chromate }				44.7	mg/kg	2.976	118.937	mg/kg	0.0119 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1	mg/kg	2.554	2.283	mg/kg	0.000228 %	✓	
	034-002-00-8											
12	zinc { zinc chromate }				91	mg/kg	2.774	225.688	mg/kg	0.0226 %	✓	
	024-007-00-3											
13	TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
15	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
16	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
17	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
18	xylene				0.026	mg/kg		0.0232	mg/kg	0.00000232 %	✓	
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19	pH				8.65	pH		8.65	pH	8.65 pH		
			PH									
20	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
21	acenaphthylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8									
22	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
23	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
24	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
25	anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7									
26	fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0									
27	pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0									
28	benzo[a]anthracene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
29	chrysene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
30	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
31	benzo[k]fluoranthene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
32	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
33	indeno[123-cd]pyrene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5									
34	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
35	benzo[ghi]perylene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2									
36	polychlorobiphenyls; PCB				<0.035	mg/kg		<0.035	mg/kg	<0.0000035 %		<LOD
	602-039-00-4	215-648-1	1336-36-3									
37	barium { barium oxide }				92	mg/kg	1.117	91.83	mg/kg	0.00918 %	✓	
		215-127-9	1304-28-5									
38	coronene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-881-7	191-07-1									
39	benzo[j]fluoranthene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-035-00-X	205-910-3	205-82-3									
Total:										0.0631 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because Solid waste without liquid phase

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

xylene: (conc.: 2.32e-06%)

Classification of sample: WS12-17/01/2020-0.70m

✔ **Non Hazardous Waste**
Classified as 17 05 04
in the List of Waste

Sample details

Sample Name:	LoW Code:	
WS12-17/01/2020-0.70m	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
21.2% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 21.2% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				2 mg/kg	1.197	1.887 mg/kg	0.000189 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				12.3 mg/kg	1.32	12.797 mg/kg	0.00128 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				1.4 mg/kg	1.142	1.26 mg/kg	0.000126 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide }				64 mg/kg	1.462	73.709 mg/kg	0.00737 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.3 mg/kg	1.923	<0.577 mg/kg	<0.0000577 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				30 mg/kg	1.126	26.616 mg/kg	0.00266 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	25 mg/kg	1.56	30.728 mg/kg	0.00197 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	molybdenum { molybdenum(VI) oxide }				4.3 mg/kg	1.5	5.083 mg/kg	0.000508 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
10	nickel { nickel chromate }				34.1 mg/kg	2.976	79.975 mg/kg	0.008 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1 mg/kg	2.554	2.012 mg/kg	0.000201 %	✓	
	034-002-00-8									
12	zinc { zinc chromate }				164 mg/kg	2.774	358.509 mg/kg	0.0359 %	✓	
	024-007-00-3									
13	TPH (C6 to C40) petroleum group		TPH		<52 mg/kg		<52 mg/kg	<0.0052 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



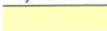
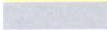
GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

HazWasteOnline™

Report created by Barry Sexton on 12 Feb 2020

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
15	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
16	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
17	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
18	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19	pH				8.29	pH		8.29	pH	8.29 pH		
			PH									
20	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
21	acenaphthylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8									
22	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
23	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
24	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
25	anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7									
26	fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0									
27	pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0									
28	benzo[a]anthracene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
29	chrysene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
30	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
31	benzo[k]fluoranthene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
32	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
33	indeno[123-cd]pyrene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5									
34	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
35	benzo[ghi]perylene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2									
36	polychlorobiphenyls; PCB				<0.035	mg/kg		<0.035	mg/kg	<0.0000035 %		<LOD
	602-039-00-4	215-648-1	1336-36-3									
37	barium { barium oxide }				80	mg/kg	1.117	70.385	mg/kg	0.00704 %	✓	
		215-127-9	1304-28-5									
38	coronene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-881-7	191-07-1									
39	benzo[j]fluoranthene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-035-00-X	205-910-3	205-82-3									
Total:										0.0706 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification



Classification of sample: WS12-17/01/2020-1.70m

🟢 **Non Hazardous Waste**
Classified as 17 05 04
in the List of Waste

PLAN NO: LR06026/2363
RECEIVED: 13/06/2023

Sample details

Sample Name: **WS12-17/01/2020-1.70m** LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content: **9.8%** Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(wet weight correction)

Hazard properties

None identified

Determinands

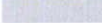
Moisture content: 9.8% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2	mg/kg	1.197	2.16	mg/kg	0.000216 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				9.4	mg/kg	1.32	11.195	mg/kg	0.00112 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				1.9	mg/kg	1.142	1.958	mg/kg	0.000196 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide }				40.2	mg/kg	1.462	52.997	mg/kg	0.0053 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.3	mg/kg	1.923	<0.577	mg/kg	<0.0000577 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	copper { dicopper oxide; copper (I) oxide }				29	mg/kg	1.126	29.451	mg/kg	0.00295 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	16	mg/kg	1.56	22.511	mg/kg	0.00144 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	molybdenum { molybdenum(VI) oxide }				4.4	mg/kg	1.5	5.954	mg/kg	0.000595 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
10	nickel { nickel chromate }				41.1	mg/kg	2.976	110.337	mg/kg	0.011 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
12	zinc { zinc chromate }				89	mg/kg	2.774	222.703	mg/kg	0.0223 %	✓	
	024-007-00-3											
13	TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	benzene 601-020-00-8	200-753-7	71-43-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
16	toluene 601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
17	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
18	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
19	pH		PH		8.43 pH		8.43 pH	8.43 pH			
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
21	acenaphthylene 205-917-1	208-96-8			<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
22	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
23	fluorene 201-695-5	86-73-7			<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
24	phenanthrene 201-581-5	85-01-8			<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
25	anthracene 204-371-1	120-12-7			<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
26	fluoranthene 205-912-4	206-44-0			<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
27	pyrene 204-927-3	129-00-0			<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
29	chrysene 601-048-00-0	205-923-4	218-01-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
33	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
34	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
35	benzo[ghi]perylene 205-883-8	191-24-2			<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
36	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %			<LOD
37	barium { barium oxide } 215-127-9	1304-28-5			88 mg/kg	1.117	88.624 mg/kg	0.00886 %	✓		
38	coronene 205-881-7	191-07-1			<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
39	benzo[j]fluoranthene 601-035-00-X	205-910-3	205-82-3		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.0597 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS12-17/01/2020-2.50m

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS12-17/01/2020-2.50m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.1% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.1% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				2 mg/kg	1.197	2.176 mg/kg	0.000218 %	✓		
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				10.1 mg/kg	1.32	12.122 mg/kg	0.00121 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
3	cadmium { cadmium oxide }				1.8 mg/kg	1.142	1.869 mg/kg	0.000187 %	✓		
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in chromium(III) compounds { chromium(III) oxide }				37.4 mg/kg	1.462	49.688 mg/kg	0.00497 %	✓		
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.3 mg/kg	1.923	<0.577 mg/kg	<0.0000577 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				31 mg/kg	1.126	31.726 mg/kg	0.00317 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	18 mg/kg	1.56	25.522 mg/kg	0.00164 %	✓		
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	molybdenum { molybdenum(VI) oxide }				4.5 mg/kg	1.5	6.137 mg/kg	0.000614 %	✓		
	042-001-00-9	215-204-7	1313-27-5								
10	nickel { nickel chromate }				39.3 mg/kg	2.976	106.323 mg/kg	0.0106 %	✓		
	028-035-00-7	238-766-5	14721-18-7								
11	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				3 mg/kg	2.554	6.964 mg/kg	0.000696 %	✓		
	034-002-00-8										
12	zinc { zinc chromate }				86 mg/kg	2.774	216.866 mg/kg	0.0217 %	✓		
	024-007-00-3										
13	TPH (C6 to C40) petroleum group		TPH		<52 mg/kg		<52 mg/kg	<0.0052 %			<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



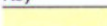
GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

HazWasteOnline™

Report created by Barry Sexton on 12 Feb 2020

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
15	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
16	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
17	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
18	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19	pH				8.67	pH		8.67	pH	8.67 pH		
			PH									
20	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
21	acenaphthylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8									
22	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
23	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
24	phenanthrene				0.06	mg/kg		0.0545	mg/kg	0.00000545 %	✓	
		201-581-5	85-01-8									
25	anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7									
26	fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0									
27	pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0									
28	benzo[a]anthracene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
29	chrysene				0.03	mg/kg		0.0273	mg/kg	0.00000273 %	✓	
	601-048-00-0	205-923-4	218-01-9									
30	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
31	benzo[k]fluoranthene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
32	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
33	indeno[123-cd]pyrene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5									
34	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
35	benzo[ghi]perylene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2									
36	polychlorobiphenyls; PCB				<0.035	mg/kg		<0.035	mg/kg	<0.0000035 %		<LOD
	602-039-00-4	215-648-1	1336-36-3									
37	barium { barium oxide }				130	mg/kg	1.117	131.937	mg/kg	0.0132 %	✓	
		215-127-9	1304-28-5									
38	coronene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-881-7	191-07-1									
39	benzo[j]fluoranthene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-035-00-X	205-910-3	205-82-3									
Total:										0.0637 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS13-17/01/2020-0.70m

Non Hazardous Waste
Classified as 17 05 04
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS13-17/01/2020-0.70m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
12.1%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12.1% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2	mg/kg	1.197	2.105	mg/kg	0.00021 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				10.4	mg/kg	1.32	12.07	mg/kg	0.00121 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				2.3	mg/kg	1.142	2.309	mg/kg	0.000231 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide }				40.5	mg/kg	1.462	52.031	mg/kg	0.0052 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.3	mg/kg	1.923	<0.577	mg/kg	<0.0000577 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	copper { dicopper oxide; copper (I) oxide }				31	mg/kg	1.126	30.679	mg/kg	0.00307 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	14	mg/kg	1.56	19.195	mg/kg	0.00123 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	molybdenum { molybdenum(VI) oxide }				3.5	mg/kg	1.5	4.615	mg/kg	0.000462 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
10	nickel { nickel chromate }				40.5	mg/kg	2.976	105.954	mg/kg	0.0106 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
12	zinc { zinc chromate }				83	mg/kg	2.774	202.393	mg/kg	0.0202 %	✓	
	024-007-00-3											
13	TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	pH		PH		8.58 pH		8.58 pH	8.58 pH			
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		201-695-5	86-73-7								
24	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		204-371-1	120-12-7								
26	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-912-4	206-44-0								
27	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		204-927-3	129-00-0								
28	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-883-8	191-24-2								
36	polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %			<LOD
	602-039-00-4	215-648-1	1336-36-3								
37	barium { barium oxide }				71 mg/kg	1.117	69.68 mg/kg	0.00697 %		✓	
		215-127-9	1304-28-5								
38	coronene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-881-7	191-07-1								
39	benzo[j]fluoranthene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-035-00-X	205-910-3	205-82-3								
Total:									0.0551 %		



Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS13-17/01/2020-1.40m

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS13-17/01/2020-1.40m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10.7% (wet weight correction)	

Hazard properties

None identified

Determinands

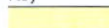
Moisture content: 10.7% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2	mg/kg	1.197	2.138	mg/kg	0.000214 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				9.8	mg/kg	1.32	11.555	mg/kg	0.00116 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				1.9	mg/kg	1.142	1.938	mg/kg	0.000194 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide }				34.4	mg/kg	1.462	44.898	mg/kg	0.00449 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.3	mg/kg	1.923	<0.577	mg/kg	<0.0000577 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	copper { dicopper oxide; copper (I) oxide }				33	mg/kg	1.126	33.179	mg/kg	0.00332 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	15	mg/kg	1.56	20.894	mg/kg	0.00134 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	molybdenum { molybdenum(VI) oxide }				4	mg/kg	1.5	5.359	mg/kg	0.000536 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
10	nickel { nickel chromate }				41.7	mg/kg	2.976	110.83	mg/kg	0.0111 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
12	zinc { zinc chromate }				89	mg/kg	2.774	220.481	mg/kg	0.022 %	✓	
	024-007-00-3											
13	TPH (C6 to C40) petroleum group		TPH		<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				0.015 mg/kg		0.0134 mg/kg	0.00000134 %		✓	
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	pH				8.62 pH		8.62 pH	8.62 pH			
			PH								
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		201-695-5	86-73-7								
24	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		204-371-1	120-12-7								
26	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-912-4	206-44-0								
27	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		204-927-3	129-00-0								
28	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-883-8	191-24-2								
36	polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %			<LOD
	602-039-00-4	215-648-1	1336-36-3								
37	barium { barium oxide }				64 mg/kg	1.117	63.811 mg/kg	0.00638 %		✓	
		215-127-9	1304-28-5								
38	coronene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-881-7	191-07-1								
39	benzo[j]fluoranthene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-035-00-X	205-910-3	205-82-3								
Total:									0.0565 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because Solid waste without liquid phase

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

xylene: (conc.: 1.34e-06%)

Classification of sample: WS14-17/01/2020-0.70m

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS14-17/01/2020-0.70m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
11.7%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11.7% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	 antimony { antimony trioxide }				2	mg/kg	1.197	2.114	mg/kg	0.000211 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	 arsenic { arsenic trioxide }				10.2	mg/kg	1.32	11.892	mg/kg	0.00119 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	 cadmium { cadmium oxide }				2.3	mg/kg	1.142	2.32	mg/kg	0.000232 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	 chromium in chromium(III) compounds { chromium(III) oxide }				39.9	mg/kg	1.462	51.493	mg/kg	0.00515 %	✓	
		215-160-9	1308-38-9									
5	 chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.3	mg/kg	1.923	<0.577	mg/kg	<0.0000577 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	 copper { dicopper oxide; copper (I) oxide }				30	mg/kg	1.126	29.825	mg/kg	0.00298 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	 lead { lead chromate }			1	13	mg/kg	1.56	17.905	mg/kg	0.00115 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	 mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	 molybdenum { molybdenum(VI) oxide }				3.8	mg/kg	1.5	5.034	mg/kg	0.000503 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
10	 nickel { nickel chromate }				41.1	mg/kg	2.976	108.013	mg/kg	0.0108 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1	mg/kg	2.554	2.255	mg/kg	0.000225 %	✓	
	034-002-00-8											
12	 zinc { zinc chromate }				89	mg/kg	2.774	218.012	mg/kg	0.0218 %	✓	
	024-007-00-3											
13	 TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH									
14	 tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
15	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
16	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
17	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
18	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19	pH		PH		8.55	pH		8.55	pH	8.55 pH		
20	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
21	acenaphthylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8									
22	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
23	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
24	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
25	anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7									
26	fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0									
27	pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0									
28	benzo[a]anthracene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
29	chrysene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
30	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
31	benzo[k]fluoranthene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
32	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
33	indeno[123-cd]pyrene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5									
34	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
35	benzo[ghi]perylene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2									
36	polychlorobiphenyls; PCB				<0.035	mg/kg		<0.035	mg/kg	<0.0000035 %		<LOD
	602-039-00-4	215-648-1	1336-36-3									
37	barium { barium oxide }				68	mg/kg	1.117	67.039	mg/kg	0.0067 %	✓	
		215-127-9	1304-28-5									
38	coronene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-881-7	191-07-1									
39	benzo[j]fluoranthene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-035-00-X	205-910-3	205-82-3									
Total:										0.0564 %		

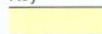
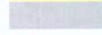


GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

HazWasteOnline™

Report created by Barry Sexton on 12 Feb 2020

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS14-17/01/2020-1.70m

✔ **Non Hazardous Waste**
Classified as 17 05 04
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS14-17/01/2020-1.70m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10.8% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 10.8% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2	mg/kg	1.197	2.136	mg/kg	0.000214 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				8.3	mg/kg	1.32	9.775	mg/kg	0.000978 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				2.1	mg/kg	1.142	2.14	mg/kg	0.000214 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide }				35.8	mg/kg	1.462	46.673	mg/kg	0.00467 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.3	mg/kg	1.923	<0.577	mg/kg	<0.0000577 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	copper { dicopper oxide; copper (I) oxide }				28	mg/kg	1.126	28.12	mg/kg	0.00281 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	15	mg/kg	1.56	20.87	mg/kg	0.00134 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	molybdenum { molybdenum(VI) oxide }				4.4	mg/kg	1.5	5.888	mg/kg	0.000589 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
10	nickel { nickel chromate }				35.6	mg/kg	2.976	94.512	mg/kg	0.00945 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1	mg/kg	2.554	2.278	mg/kg	0.000228 %	✓	
	034-002-00-8											
12	zinc { zinc chromate }				80	mg/kg	2.774	197.963	mg/kg	0.0198 %	✓	
	024-007-00-3											
13	TPH (C6 to C40) petroleum group		TPH		<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									



#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
15	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
16	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
17	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
18	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19	pH				8.53	pH		8.53	pH	8.53 pH		
			PH									
20	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
21	acenaphthylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8									
22	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
23	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
24	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
25	anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7									
26	fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0									
27	pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0									
28	benzo[a]anthracene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
29	chrysene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
30	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
31	benzo[k]fluoranthene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
32	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
33	indeno[123-cd]pyrene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5									
34	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
35	benzo[ghi]perylene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2									
36	polychlorobiphenyls; PCB				<0.035	mg/kg		<0.035	mg/kg	<0.0000035 %		<LOD
	602-039-00-4	215-648-1	1336-36-3									
37	barium { barium oxide }				121	mg/kg	1.117	120.507	mg/kg	0.0121 %	✓	
		215-127-9	1304-28-5									
38	coronene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-881-7	191-07-1									
39	benzo[j]fluoranthene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-035-00-X	205-910-3	205-82-3									
Total:										0.0578 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS14-17/01/2020-2.70m

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS14-17/01/2020-2.70m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
8.1%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.1% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2	mg/kg	1.197	2.2	mg/kg	0.00022 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				10.2	mg/kg	1.32	12.376	mg/kg	0.00124 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				2	mg/kg	1.142	2.1	mg/kg	0.00021 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide }				35.7	mg/kg	1.462	47.951	mg/kg	0.0048 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.3	mg/kg	1.923	<0.577	mg/kg	<0.0000577 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	copper { dicopper oxide; copper (I) oxide }				32	mg/kg	1.126	33.11	mg/kg	0.00331 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	17	mg/kg	1.56	24.369	mg/kg	0.00156 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	molybdenum { molybdenum(VI) oxide }				4.3	mg/kg	1.5	5.928	mg/kg	0.000593 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
10	nickel { nickel chromate }				38.2	mg/kg	2.976	104.484	mg/kg	0.0104 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				3	mg/kg	2.554	7.04	mg/kg	0.000704 %	✓	
	034-002-00-8											
12	zinc { zinc chromate }				91	mg/kg	2.774	231.999	mg/kg	0.0232 %	✓	
	024-007-00-3											
13	TPH (C6 to C40) petroleum group				<52	mg/kg		<52	mg/kg	<0.0052 %		<LOD
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
19	pH		PH		8.42 pH		8.42 pH	8.42 pH			
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		201-695-5	86-73-7								
24	phenanthrene				0.05 mg/kg		0.046 mg/kg	0.00000459 %		✓	
		201-581-5	85-01-8								
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		204-371-1	120-12-7								
26	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-912-4	206-44-0								
27	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		204-927-3	129-00-0								
28	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				0.03 mg/kg		0.0276 mg/kg	0.00000276 %		✓	
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-883-8	191-24-2								
36	polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %			<LOD
	602-039-00-4	215-648-1	1336-36-3								
37	barium { barium oxide }				51 mg/kg	1.117	52.33 mg/kg	0.00523 %		✓	
		215-127-9	1304-28-5								
38	coronene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-881-7	191-07-1								
39	benzo[j]fluoranthene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	601-035-00-X	205-910-3	205-82-3								
Total:									0.057 %		

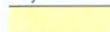


GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

HazWasteOnline™

Report created by Barry Sexton on 12 Feb 2020

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non CLP determinands

• **chromium(III) oxide** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Conversion factor: 1.462

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Repr. 1B H360FD , Skin Sens. 1 H317 , Resp. Sens. 1 H334 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302 , Acute Tox. 4 H332

• **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Aquatic Chronic 2 H411 , Repr. 2 H361d , Carc. 1B H350 , Muta. 1B H340 , STOT RE 2 H373 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

• **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

CLP index number: 601-023-00-4

Description/Comments:

Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)

Additional Hazard Statement(s): Carc. 2 H351

Reason for additional Hazards Statement(s):

03 Jun 2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

• **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

• **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 1 H330 , Acute Tox. 4 H302

• **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Aquatic Chronic 2 H411 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

• **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

• **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Skin Irrit. 2 H315 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302

• **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

• **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Acute Tox. 4 H302

• **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

• **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2 H351

• **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

• **polychlorobiphenyls; PCB** (EC Number: 215-648-1, CAS Number: 1336-36-3)

CLP index number: 602-039-00-4
Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans; POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)
Additional Hazard Statement(s): Carc. 1A H350
Reason for additional Hazards Statement(s):
29 Sep 2015 - Carc. 1A H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

• **barium oxide** (EC Number: 215-127-9, CAS Number: 1304-28-5)

Conversion factor: 1.117
Description/Comments: Data from C&L Inventory Database; No entries in Registered Substances Database, IARC or Pesticide Properties Database
Data source: <http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=88825&HarmOnly=no?fc=true&lang=en>
Data source date: 02 Jun 2014
Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Corr. 1A H314 , Acute Tox. 3 H301 , Acute Tox. 4 H302 , Acute Tox. 4 H332

• **coronene** (EC Number: 205-881-7, CAS Number: 191-07-1)

Description/Comments: Data from C&L Inventory Database; no entries in Registered Substances or Pesticides Properties databases; SDS: Sigma Aldrich, 1907/2006 compliant, dated 2012 - no entries; IARC - Group 3, not carcinogenic.
Data source: <http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=17010&HarmOnly=no?fc=true&lang=en>
Data source date: 16 Jun 2014
Hazard Statements: STOT SE 2 H371

Appendix B: Rationale for selection of metal species

antimony {antimony trioxide}

Worst case CLP species based on hazard statements/molecular weight and low solubility. Industrial sources include: flame retardants in electrical apparatus, textiles and coatings (edit as required)

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

chromium in chromium(III) compounds {chromium(III) oxide}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass (edit as required)

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

molybdenum {molybdenum(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil. (edit as required)

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

barium {barium oxide}

Cr VI not detected

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.1, May 2018

HazWasteOnline Classification Engine Version: 2020.42.4165.8301 (11 Feb 2020)

HazWasteOnline Database: 2020.42.4165.8301 (11 Feb 2020)

This classification utilises the following guidance and legislation:

WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004

1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010

2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

APPENDIX 8 – WAC Summary Data



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Waste Categorisation Summary Table

Sample ID										Inert			IMS* Criteria			Hazardous Criteria		LOO LOR	Units
Sample ID										Inert			IMS* Criteria			Hazardous Criteria			
Sample ID	CBR01	CBR02	CBR03	CBR04	CBR06	CBR07	CBR08	CBR09											
Sample Depth (m)	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70											
Material Description	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay											
Sample Date	21/01/2020	21/01/2020	20/01/2020	20/01/2020	21/01/2020	21/01/2020	21/01/2020	21/01/2020											
Low Code	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04											
Waste Category	Category A	Category A	Category A	Category A	Category A	Category A	Category A	Category A											
Metals																			
Antimony	3	3	3	2	3	3	3	3										<1 mg/kg	
Asenic	14.6	14.0	18.8	11.3	15.6	17.9	13.4	15.2										<0.5 mg/kg	
Barium	104	184	144	135	123	331	126	181										<1 mg/kg	
Cadmium	2.3	3.5	4.2	2.7	2.6	3.9	4.2	3.9										<0.1 mg/kg	
Chromium	74.6	72.7	71.7	59.4	51.7	70.6	76.3	79.6										<0.5 mg/kg	
Copper	36	37	57	28	45	32	36	39										<1 mg/kg	
Lead	30	31	34	24	24	24	34	41										<5 mg/kg	
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1										<0.1 mg/kg	
Molybdenum	6.7	6.3	5.5	4.8	5.0	7.5	6.4	7.5										<0.1 mg/kg	
Nickel	50.3	52.6	80.3	39.4	81.2	73.2	54.6	67.5										<0.7 mg/kg	
Selenium	3	2	2	2	2	4	<1	3										<1 mg/kg	
Zinc	157	139	190	102	131	108	133	130										<5 mg/kg	
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3										<0.3 mg/kg	
pH (solid sample)	8.43	8.33	8.39	8.50	8.39	8.28	8.49	8.51										<0.01 pH units	
alkali reserve	-	-	-	-	-	-	-	-										<0.000 gNaOH/100g	
Asbestos																			
Asbestos Fibres	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD										<0.001 %	
ACM Detected	-	-	-	-	-	-	-	-										Presence	
PAHs																			
Naphthalene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04										<0.04 mg/kg	
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03 mg/kg	
Acenaphthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05										<0.05 mg/kg	
Fluorene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04										<0.04 mg/kg	
Phenanthrene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03 mg/kg	
Anthracene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04										<0.04 mg/kg	
Fluoranthene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03 mg/kg	
Pyrene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03 mg/kg	
Benzo[a]anthracene	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06										<0.06 mg/kg	
Chrysene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02										<0.02 mg/kg	
Benzo[b]fluoranthene	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07										<0.07 mg/kg	
Benzo[k]pyrene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04										<0.04 mg/kg	
Indeno[1,2,3-cd]pyrene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04										<0.04 mg/kg	
Dibenz[ah]anthracene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04										<0.04 mg/kg	
Benzo[ghi]perylene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04										<0.04 mg/kg	
Coronene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04										<0.04 mg/kg	
PAH 6 Total	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22										<0.22 mg/kg	
PAH 17 Total	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64										<0.64 mg/kg	
Benzo[fluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05										<0.05 mg/kg	
Benzo[fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02										<0.02 mg/kg	
Benzo[fluoranthene	<1	<1	<1	<1	<1	<1	<1	<1										<1 mg/kg	
Hydrocarbons																			
TPH (C5-40)	<52	<52	<52	<52	<52	<52	<52	<52										<52 mg/kg	
MTBE	<5	<5	<5	<5	<5	<5	<5	<5										<5 ug/kg	
Benzene	<5	<5	<5	<5	<5	<5	<5	<5										<5 ug/kg	
Toluene	<5	<5	<5	<5	<5	<5	<5	<5										<5 ug/kg	
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5	<5										<5 ug/kg	
m,p-Xylene	<5	<5	<5	<5	<5	<5	<5	<5										<5 ug/kg	
o-Xylene	<5	<5	<5	<5	<5	<5	<5	<5										<5 ug/kg	
Total 7 PCBs	<35	<35	<35	<35	<35	<35	<35	<35										<35 ug/kg	
WAC** Solid Sample Summary																			
Total Organic Carbon *	0.86	0.80	0.89	0.65	0.65	0.49	0.81	1.01										%	
Sum of BTEX	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025										<0.025 mg/kg	
Sum of 7 PCBs	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035										<0.035 mg/kg	
Mineral Oil	<30	<30	<30	<30	<30	<30	<30	<30										<30 mg/kg	
PAH Sum of 6	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22										<0.22 mg/kg	
PAH Sum of 17	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64										<0.64 mg/kg	
WAC** Leachate Data																			
Asenine	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025										<0.025 mg/kg	
Barium	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03 mg/kg	
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005										<0.005 mg/kg	
Chromium	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015										<0.015 mg/kg	
Copper	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07										<0.07 mg/kg	
Mercury	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001										<0.0001 mg/kg	
Molybdenum	0.03	0.03	0.03	0.06	<0.02	0.09	0.03	0.04										<0.02 mg/kg	
Nickel	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02										<0.02 mg/kg	
Lead	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05										<0.05 mg/kg	
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02										<0.02 mg/kg	
Selenium	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03 mg/kg	
Zinc	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03										<0.03 mg/kg	
Total Dissolved Solids	890	870	890	1829	570	570	510	710										<350 mg/kg	
Dissolved Organic Carbon	110	30	<20	30	30	30	50	30										<20 mg/kg	
Phenol	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1										<0.1 mg/kg	
Sulphate as SO4	<5	<5	<5	<5	<5	<5	<5	<5										<0.5 mg/kg	
Chloride	<3	<3	<3	<3	<3	<3	<3	<3										<3 mg/kg	

NAD: no asbestos detected
 -: Integrated Materials Solutions Landfill, Holywood Green, Nags Head, The Naui Co. Dublin
 **: limits as specified in Council Decision 2002/35/EC

NAD: no asbestos detected
 * - Integrated Materials Solutions Landfill, Hollywood Great, Nag's Head, The Naul, Co. Dublin
 ** - limits as specified in Council Decision 2003/33/EC

Waste Categorisation Summary Table


 GEORGIAN INVESTIGATIONS SRL AND
 GEORGIAN INVESTIGATIONS SRL AND

Sample ID	WS10	WS10	WS10	WS10	WS11	WS11	WS11	WS12	Inert Criteria	HM ⁶ Criteria	Hazardous Criteria	LOD LOR	Units
Sample Depth (m)	2.60	0.70	1.70	2.30	0.70	1.70	2.20	0.70	-	-	-	-	mg/kg
Material Description	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	-	-	-	-	mg/kg
Sample Date	16/01/2020	16/01/2020	16/01/2020	16/01/2020	16/01/2020	16/01/2020	16/01/2020	17/01/2020	-	-	-	-	mg/kg
Low Code	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	-	-	-	-	mg/kg
Waste Category	Category A	Category A	Category A	Category A	Category A	Category A	Category A	Category A	-	-	-	-	mg/kg
Metals									-	-	-	-	mg/kg
Antimony	2	2	2	2	2	2	2	2	-	-	-	-	mg/kg
Arsenic	11.6	13.3	11.3	11.0	11.5	10.6	10.2	12.3	-	-	-	-	mg/kg
Barium	64	69	63	63	113	66	92	80	-	-	-	-	mg/kg
Boron	1.8	2.5	2.1	2.0	2.6	2.9	2.0	1.4	-	-	-	-	mg/kg
Chromium	38.2	42.2	42.8	36.7	33.3	37.5	50.8	64.0	-	-	-	-	mg/kg
Copper	32	40	31	30	36	32	32	30	-	-	-	-	mg/kg
Lead	18	17	19	17	16	18	18	25	-	-	-	-	mg/kg
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	mg/kg
Molybdenum	4.9	4.6	4.7	4.4	4.0	5.1	4.3	4.3	-	-	-	-	mg/kg
Nickel	41.2	51.0	39.2	39.7	47.4	37.9	44.7	34.1	-	-	-	-	mg/kg
Selenium	5	1	<1	2	1	<1	1	1	-	-	-	-	mg/kg
Zinc	98	101	80	88	83	103	91	164	-	-	-	-	mg/kg
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	-	-	mg/kg
pH (solid sample)	8.65	8.48	8.66	8.66	8.60	8.57	8.66	8.28	-	-	-	-	pH units
pH (leachate)	-	-	-	-	-	-	-	-	-	-	-	-	gHCl/100g
Asbestos	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	-	-	-	-	%
Asbestos Fibres	-	-	-	-	-	-	-	-	-	-	-	-	%
ACM Detected	-	-	-	-	-	-	-	-	-	-	-	-	Presence
PAHs									-	-	-	-	mg/kg
Naphthalene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	-	-	mg/kg
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	-	-	mg/kg
Acenaphthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	mg/kg
Fluorene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	-	-	mg/kg
Phenanthrene	0.05	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	-	-	mg/kg
Anthracene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	-	-	mg/kg
Fluoranthene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	-	-	mg/kg
Pyrene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	-	-	mg/kg
Benzofluoranthene	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	-	-	-	-	mg/kg
Chrysene	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	-	-	mg/kg
Benzobenzofluoranthene	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	-	-	-	-	mg/kg
Benzokorylene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	-	-	mg/kg
Indeno[1,2,3-cd]pyrene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	-	-	mg/kg
Dibenzofluoranthene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	-	-	mg/kg
Benzogluoranthene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	-	-	mg/kg
Coronene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	-	-	mg/kg
PAH Total	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	-	-	-	-	mg/kg
PAH 17 Total	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	-	-	-	-	mg/kg
Benzobenzofluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	mg/kg
Benzobenzofluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	-	-	mg/kg
Benzobenzofluoranthene	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	mg/kg
Hydrocarbons									-	-	-	-	mg/kg
TPH (C5-40)	<52	<52	<52	<52	<52	<52	<52	<52	-	-	-	-	mg/kg
MTBE	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	mg/kg
Benzene	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	mg/kg
Toluene	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	mg/kg
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	mg/kg
m,p-Xylene	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	mg/kg
o-Xylene	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	mg/kg
Total 7 PCBs	<36	<36	<36	<36	<36	<36	<36	<36	-	-	-	-	mg/kg
WAC ⁶ Solid Sample Summary									-	-	-	-	mg/kg
Total Organic Carbon ¹	0.89	0.37	0.37	0.49	0.39	0.36	0.30	1.06	3	6	-	-	%
Sum of 8 PCBs	<0.025	<0.025	<0.025	0.068	<0.025	<0.025	0.026	<0.025	6	6	-	-	mg/kg
Sum of 7 PCBs	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	1	1	-	-	mg/kg
Metal Oil	<30	<30	<30	<30	<30	<30	<30	<30	500	500	-	-	mg/kg
PAH Sum of 8	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	-	-	-	-	mg/kg
PAH Sum of 17	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	100	100	-	-	mg/kg
WAC ⁶ Leachate Data									-	-	-	-	mg/kg
Arsenic	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.5	1.5	-	-	mg/kg
Barium	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	20	20	-	-	mg/kg
Chromium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.04	0.04	-	-	mg/kg
Copper	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.5	0.5	-	-	mg/kg
Mercury	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	2	2	-	-	mg/kg
Molybdenum	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.01	0.01	-	-	mg/kg
Nickel	0.27	0.05	0.13	0.15	0.05	0.14	0.15	0.15	0.5	1.5	-	-	mg/kg
Nickel	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.4	0.4	-	-	mg/kg
Lead	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.5	0.5	-	-	mg/kg
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	0.18	-	-	mg/kg
Selenium	0.06	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.1	0.3	-	-	mg/kg
Zinc	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	4	4	-	-	mg/kg
Total Dissolved Solids	550	990	890	590	1151	550	490	<350	4000	12,000	-	-	mg/kg
Dissolved Organic Carbon	<20	<20	<20	<20	<20	<20	<20	<20	300	300	-	-	mg/kg
Phenol	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1	1	-	-	mg/kg
Supplete as SO4	14	<5	6	6	<5	<5	6	10	1000	3,000	-	-	mg/kg
Chloride	<3	<3	<3	<3	<3	<3	<3	<3	800	2,400	-	-	mg/kg

NAD: no asterisk detected
 -: integrated Materials Solutions landfill, Holywood Great, Nags Head, The Naul, Co. Dublin
 +: limits as specified in Council Decision 2002/35/EC

Waste Categorisation Summary Table
Stanford Park, January - March 2020

Sample ID	WS12	WS12	WS13	WS13	WS14	WS14	WS14	WS14	BS03			
Sample Depth (m)	1.70	2.50	0.70	1.40	0.70	1.70	2.70	3.00				
Material Description	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay				
Sample Date	17/01/2020	17/01/2020	17/01/2020	17/01/2020	17/01/2020	17/01/2020	17/01/2020	28/03/2020				
LOM Code	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04				
Waste Category	Category A	Category A	Category A	Category A	Category A	Category A	Category C	Category B2				
Metals												
Antimony	2	2	2	2	2	2	2	1	-	-	HazWaste	<1
Arsenic	9.4	10.1	10.4	9.8	10.2	8.3	10.2	6.2	-	-	HazWaste	<0.5
Barium	88	130	71	64	88	121	51	48	-	-	HazWaste	<1
Calcium	1.8	1.8	2.3	1.9	2.3	2.1	2.0	1.2	-	-	HazWaste	<0.1
Chromium	40.2	37.4	40.5	34.4	39.9	35.8	35.7	40.0	-	-	HazWaste	<1
Copper	29	31	31	33	30	28	32	19	-	-	HazWaste	<1
Lead	16	18	14	15	13	15	17	14	-	-	HazWaste	<5
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	HazWaste	<0.1
Molybdenum	4.4	4.5	3.5	4.0	3.8	4.4	4.3	3.5	-	-	HazWaste	<0.1
Nickel	41.1	39.3	40.5	41.7	41.1	35.6	38.2	23.7	-	-	HazWaste	<0.7
Selenium	<1	3	<1	<1	1	1	3	2	-	-	HazWaste	<1
Zinc	89	86	83	88	89	80	81	54	-	-	HazWaste	<5
HeavyMetal Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	HazWaste	<0.3
pH (solid sample)	8.43	8.87	8.59	8.62	8.55	8.53	8.42	8.13	-	-	HazWaste	<0.01
alkali reserve	-	-	-	-	-	-	-	-	-	-	-	g/teCH10g
Asbestos	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Fibres	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	-	-	0.1	%
ACH Detected	-	-	-	-	-	-	-	-	-	-	-	Presence
PAHs												
Naphthalene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	HazWaste	<0.04
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	HazWaste	<0.03
Acenaphthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	HazWaste	<0.05
Fluorene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	HazWaste	<0.04
Phenanthrene	<0.03	0.06	<0.03	<0.03	<0.03	<0.03	0.06	<0.03	-	-	HazWaste	<0.03
Anthracene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	HazWaste	<0.04
Fluoranthene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	HazWaste	<0.03
Pyrene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	HazWaste	<0.03
Benzo(a)anthracene	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	-	-	HazWaste	<0.06
Chrysene	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	-	-	HazWaste	<0.02
Benzo(b)fluoranthene	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	-	-	HazWaste	<0.07
Benzo(e)pyrene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	HazWaste	<0.04
Indeno(1,2,3-cd)pyrene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	HazWaste	<0.04
Dibenz(a,h)anthracene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	HazWaste	<0.04
Benzo(g,h,i)perylene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	HazWaste	<0.04
Coronene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	HazWaste	<0.04
PAH 6 Total	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	-	-	-	<0.22
PAH 17 Total	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	100	100	-	<0.64
Benzo(b)fluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	HazWaste	<0.05
Benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	HazWaste	<0.02
Benzo(l)fluoranthene	<1	<1	<1	<1	<1	<1	<1	<1	-	-	HazWaste	<1
Hydrocarbons												
THP (C5-40)	<52	<52	<52	<52	<52	<52	<52	<52	-	-	HazWaste	<52
MTBE	<5	<5	<5	<5	<5	<5	<5	<5	-	-	HazWaste	<5
Benzene	<5	<5	<5	<5	<5	<5	<5	<5	-	-	HazWaste	<5
Toluene	<5	<5	<5	<5	<5	<5	<5	<5	-	-	HazWaste	<5
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	-	-	HazWaste	<5
m,p-Xylene	<5	<5	<5	<5	<5	<5	<5	<5	-	-	HazWaste	<5
o-Xylene	<5	<5	<5	15	<5	<5	<5	<5	-	-	HazWaste	<5
Total 7 PCBs	<35	<35	<35	<35	<35	<35	<35	<35	1,000	1,000	HazWaste	<35
WAC+ Solid Sample Summary												
Total Organic Carbon *	0.35	0.86	0.32	0.37	0.36	0.34	0.89	0.54	3	6	-	<0.02
Sum of BTEX	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	6	1	-	<0.025
Sum of 7 PCBs	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	1	1	-	<0.035
Mineral Oil	<30	<30	<30	<30	<30	<30	<30	<30	500	500	-	<30
PAH Sum of 6	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	-	-	-	<0.22
PAH Sum of 17	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	100	100	-	<0.64
WAC+ Leachate Data												
Arsenic	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.5	1.5	-	-	<0.025
Barium	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.19	20	20	-	<0.03
Calcium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.04	0.04	0.04	-	<0.005
Chromium	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.5	0.5	0.5	-	<0.015
Copper	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	2	2	-	<0.07
Mercury	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.01	0.01	0.01	-	<0.0001
Molybdenum	0.14	0.20	0.03	0.07	0.04	0.11	0.27	0.22	0.5	1.5	-	<0.02
Nickel	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.4	0.4	0.4	-	<0.02
Lead	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.5	0.5	0.5	-	<0.05
Antimony	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	0.18	-	-	<0.02
Selenium	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.1	0.3	-	-	<0.03
Zinc	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	4	4	-	<0.03
Total Dissolved Solids	580	1300	1180	820	710	430	420	1140	4000	12,000	-	<350
Dissolved Organic Carbon	<20	<20	<20	<20	<20	<20	<20	<20	500	500	-	<20
Phenol	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1	1	-	<0.1
Sulphate as SO4	6	13	5	<5	<5	6	17	328	1000	3,000	-	<0.5
Chloride	<3	<3	<3	<3	<3	<3	<3	110	800	2,400	-	<3

NAD= no asbestos detected
 -, Integrated Materials Solutions Landfill, Holwood Great Nags Head The Nail, Co. Dublin
 **, limits as specified in Council Decision 2000/3/EC

Waste Categorisation Summary Table
Sandford Park, January - March 2020

Sample ID	BH04	BH05	BH06	BH07	BH08	BH09	BH10	BH11	
Sample Depth (m)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	Clay
Material Description	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
Sample Date	26/03/2020	26/03/2020	26/03/2020	27/03/2020	27/03/2020	27/03/2020	27/03/2020	27/03/2020	27/03/2020
Low Code	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04	17 05 04
Waste Category	Category B2	Category A	Category B2	Category B2	Category C	Category C	Category B2	Category C	
Metals	2	2	2	1	2	2	2	2	
Antimony	8.8	6.8	10.3	6.2	9.5	10.6	10.0	10.6	<1
Artenic	59	56	84	39	76	76	76	76	<1
Barium	1.8	1.0	2.0	1.0	2.0	2.3	1.8	2.4	<1
Cadmium	47.4	41.8	44.4	29.9	43.9	43.2	42.5	52.4	<1
Chromium	27	26	33	18	32	26	33	35	<1
Copper	48	16	18	12	20	17	18	19	<5
Lead	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
Mercury	3.7	3.6	4.1	2.5	3.7	5.0	4.0	4.3	<1
Molybdenum	33.7	33.5	40.2	22.0	38.7	35.6	39.0	38.6	<1
Nickel	3	2	3	2	2	3	4	3	<1
Selenium	73	71	89	50	84	89	83	130	<5
Zinc	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<1
Hexavalent Chromium	8.24	8.02	8.23	8.25	8.20	8.44	8.51	8.29	<1
pH (solid sample)	-	-	-	-	-	-	-	-	pH units
alkali reserve	-	-	-	-	-	-	-	-	gNaOH/100g
Asbestos	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	%
Asbestos Fibres	-	-	-	-	-	-	-	-	Presence
ACM Detected	-	-	-	-	-	-	-	-	Presence
PAHs	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg
Naphthalene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg
Acenaphthylene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg
Acenaphthene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg
Fluorene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg
Phenanthrene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg
Anthracene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg
Fluoranthene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg
Pyrene	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg
Benzo(a)anthracene	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg
Chrysene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg
Benzo(b)fluoranthene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg
Benzo(k)fluoranthene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg
Indeno(1,2,3-cd)pyrene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg
Dibenz(a,h)anthracene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg
Benzo(g,h,i)perylene	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg
Coronene	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	mg/kg
PAH 6 Total	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	mg/kg
PAH 17 Total	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg
Benzo(a)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg
Benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg
Benzo(a)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg
Hydrocarbons	<52	<52	<52	<52	<52	<52	<52	<52	mg/kg
TPH (C5-40)	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg
MTBE	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg
Benzene	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg
Toluene	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg
m,p-Xylene	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg
o-Xylene	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg
Total 7 PCBs	<35	<35	<35	<35	<35	<35	<35	<35	ug/kg
WAC** Solid Sample Summary									
Total Organic Carbon *	0.57	0.83	0.67	0.71	0.63	0.83	0.68	0.66	%
Sum of 7 PCBs	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	mg/kg
Sum of 7 PCBs	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	mg/kg
Mineral Oil	<30	<30	<30	<30	<30	<30	<30	<30	mg/kg
PAH Sum of 6	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	mg/kg
PAH Sum of 17	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	mg/kg
WAC** Leachate Data									
Artenic	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	mg/kg
Barium	0.29	0.24	0.29	0.29	0.37	0.33	0.06	0.23	mg/kg
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg
Chromium	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	mg/kg
Copper	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg
Mercury	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/kg
Molybdenum	0.21	0.21	0.26	0.19	0.22	0.22	0.25	0.28	mg/kg
Nickel	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg
Lead	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg
Antimony	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg
Selenium	0.21	<0.03	0.27	0.28	0.39	0.34	0.15	0.30	mg/kg
Zinc	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg
Total Dissolved Solids	1461	1719	1780	1310	1090	960	560	1290	mg/kg
Dissolved Organic Carbon	<20	<20	<20	<20	<20	<20	<20	<20	mg/kg
Phenol	<3	4	4	<3	4	4	<3	4	mg/kg
Sulphate as SO4	355	747	471	326	412	257	342	1000	mg/kg
Chloride	119	<3	184	127	148	112	16	113	mg/kg
Asbestos detected	-	-	-	-	-	-	-	-	mg/kg

NAD: no asbestos detected
 *: Integrated Materials Solutions Landfill, Hollywood Great Neg's Head, The Naul, Co. Dublin
 **: limits as specified in Council Decision 2000/339/EC

Waste Categorisation Summary Table

Sample ID		BH12
Sample Depth (m)	3.0	
Material Description	Clay	
Sample Date	27/03/2020	
LOH Code	17 05 04	
Waste Category	Category A	
Metals		
Antimony	2	
Arsenic	10.2	
Barium	78	
Calcium	1.8	
Chromium	38.3	
Copper	32	
Lead	17	
Mercury	<0.1	
Molybdenum	3.8	
Nickel	36.3	
Selenium	6	
Zinc	67	
Heavy Metal Chromium	<0.3	
pH (solid sample)	8.68	
at< reserve	-	
Asbestos		
Asbestos Fibres	NAD	
ACM Detected	-	
PAHs		
Naphthalene	<0.04	
Acenaphthylene	<0.03	
Acenaphthene	<0.05	
Fluorene	<0.04	
Phenanthrene	<0.03	
Anthracene	<0.04	
Fluoranthene	<0.03	
Pyrene	<0.03	
Benzo(a)anthracene	<0.06	
Chrysene	<0.02	
Benzo(b)fluoranthene	<0.07	
Benzo(a)pyrene	<0.04	
Indeno(1,2,3-cd)pyrene	<0.04	
Dibenz(a,h)anthracene	<0.04	
Benzo(g,h,i)perylene	<0.04	
Coronene	<0.04	
PAH 6 Total	<0.22	
PAH 17 Total	<0.64	
Benzo(a)fluoranthene	<0.05	
Benzo(k)fluoranthene	<0.02	
Benzo(i)fluoranthene	<1	
Hydrocarbons		
TPH (C5-40)	<62	
MTBE	<5	
Benzene	<5	
Toluene	<5	
Ethylbenzene	<5	
m,p-Xylene	<5	
o-Xylene	<5	
Total 7 PCBs	<35	
WAC* Solid Sample Summary		
Total Organic Carbon *	0.98	
Sum of 81EX	<0.025	
Sum of 17 PCBs	<0.05	
Merent Oil	<30	
PAH Sum of 6	<0.22	
PAH Sum of 17	<0.64	
WAC* Leachate Data		
Arsenic	<0.025	
Barium	<0.03	
Calcium	<0.005	
Chromium	<0.015	
Copper	<0.07	
Mercury	<0.0001	
Molybdenum	0.21	
Nickel	<0.02	
Lead	<0.06	
Antimony	<0.02	
Selenium	<0.03	
Zinc	<0.03	
Total Dissolved Solids	380	
Dissolved Organic Carbon	30	
Pheno	<0.1	
Sulphate as SO4	<3	
Chloride	<3	

NAD: no asbestos detected

* - Integrated Materials Solutions Landfill, Hollywood Great, Nags Head, The Nail, Co. Dublin

[illegible]

APPENDIX 9 – Suitable 4 Waste Data



S4UL - Metals (Residential with homegrown produce), Sandford Park, January 2020

Sample ID	CBR01	CBR02	CBR03	CBR04	CBR06	CBR07	CBR08	CBR09	CBR10	WS01	Max Level Detected	Units	Residential with homegrown produce
Sample Depth (m)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7			
Antimony	3	3	3	2	3	3	3	3	3	2	3	mg/kg	ne
Arsenic	14.6	14	18.8	11.3	15.6	17.9	13.4	15.2	17.4	13.9	18.8	mg/kg	37
Barium	104	184	144	135	123	331	126	191	321	97	331	mg/kg	ne
Cadmium	2.3	3.5	4.2	2.7	2.6	5.2	2.8	3.9	5.1	3	5.2	mg/kg	11
Chromium	74.6	72.7	71.7	59.4	51.7	70.6	76.3	79.6	70.7	51.2	79.6	mg/kg	910
Copper	38	37	57	26	45	32	36	39	32	46	57	mg/kg	2,400
Lead	30	31	34	24	24	24	34	41	35	20	41	mg/kg	ne
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0	mg/kg	1.2
Molybdenum	6.7	6.3	5.5	4.8	5	7.5	6.4	7.5	7.3	4.9	7.5	mg/kg	ne
Nickel	50.3	52.6	88.3	39.4	61.2	73.2	54.6	57.5	69.7	65.1	88.3	mg/kg	130
Selenium	3	3	2	2	2	4	<1	3	4	1	4	mg/kg	250
Zinc	157	139	160	102	131	108	133	130	158	114	160	mg/kg	3,700
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0	mg/kg	6*

S4UL - Metals (Residential with homegrown produce), Sandford Park, January 2020

Sample ID	WS01	WS01	WS02	WS02	WS02	WS03	WS03	WS03	WS04	WS04	Max Level Detected	Units	Residential with homegrown produce
Sample Depth (m)	1.7	2.4	0.7	1.7	2.5	0.7	1.7	2.7	0.7	1.7			
Antimony	2	2	3	2	<1	2	2	2	2	2	3	mg/kg	ne
Arsenic	9.3	7.6	13.6	11.3	8.9	11.3	11.2	13.7	12.3	10.4	13.7	mg/kg	37
Barium	80	55	201	147	122	74	80	110	65	75	201	mg/kg	ne
Cadmium	2	1.4	4.7	2.3	1.1	3	2.3	1.6	2.7	2.1	4.7	mg/kg	11
Chromium	47.9	33	79.6	44.1	57.3	43.6	52.1	40.9	57.3	36.3	79.6	mg/kg	910
Copper	32	22	31	39	28	39	37	23	39	33	39	mg/kg	2,400
Lead	15	14	20	17	17	20	16	18	18	17	20	mg/kg	ne
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0	mg/kg	1.2
Molybdenum	5.5	3.4	8.7	6.4	4.2	4.5	5.1	4.1	4.5	4.6	8.7	mg/kg	ne
Nickel	42.7	27.6	72.8	51.9	42.6	51	58.4	37.1	51.7	47.3	72.8	mg/kg	130
Selenium	2	3	3	2	3	1	2	3	1	2	3	mg/kg	250
Zinc	96	66	114	110	98	95	98	77	93	93	114	mg/kg	3,700
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0	mg/kg	6*

S4UL - Metals (Residential with homegrown produce), Sandford Park, January 2020

Sample ID	WS05	WS05	WS06	WS06	WS07	WS07	WS07	WS08	WS08	WS08	Max Level Detected	Units	Residential with homegrown produce
Sample Depth (m)	0.7	1.7	0.7	1.7	0.7	1.7	2.6	0.7	1.7	2.6			
Antimony	2	2	3	2	2	2	2	2	2	2	3	mg/kg	ne
Arsenic	10.6	9	15.7	10.3	9.1	10.8	10.1	6.9	7.6	10.9	15.7	mg/kg	37
Barium	77	85	163	105	60	105	102	65	94	42	163	mg/kg	ne
Cadmium	1.9	2.1	3.6	2.1	2.4	2.5	1.9	1.2	1.7	2.4	3.6	mg/kg	11
Chromium	46.4	41	50.1	33.4	52.6	44.6	40.6	50.2	42.5	39.2	52.6	mg/kg	910
Copper	33	33	37	33	31	37	28	20	26	32	37	mg/kg	2,400
Lead	17	15	22	14	15	16	17	11	14	17	22	mg/kg	ne
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0	mg/kg	1.2
Molybdenum	3.8	5.1	6	4.2	4	5.5	5.3	3.5	4.9	5.2	6	mg/kg	ne
Nickel	46.6	40.4	65.8	42.2	39.3	46.8	42.5	29.6	35.2	40	65.8	mg/kg	130
Selenium	1	1	2	2	1	1	4	1	1	3	4	mg/kg	250
Zinc	85	91	109	86	79	93	87	80	76	96	109	mg/kg	3,700
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0	mg/kg	6*

S4UL - Metals (Residential with homegrown produce), Sandford Park, January 2020

Sample ID	WS09	WS09	WS09	WS10	WS10	WS10	WS11	WS11	WS11	WS12	Max Level Detected	Units	Residential with homegrown produce
Sample Depth (m)	0.7	1.7	2.6	0.7	1.7	2.3	0.7	1.7	2.2	0.7			
Antimony	2	2	2	2	2	2	2	2	2	2	2	mg/kg	ne
Arsenic	8.1	9.4	11.6	13.3	11.3	11	11.5	10.6	10.2	12.3	13.3	mg/kg	37
Barium	312	87	64	69	63	63	113	65	92	80	312	mg/kg	ne
Cadmium	1.9	2.1	1.9	2.5	2.1	2	2.6	2.9	2	1.4	2.9	mg/kg	11
Chromium	37.6	47.1	38.2	42.2	42.8	36.7	39.3	37.5	50.8	64	64	mg/kg	910
Copper	30	33	32	40	31	30	36	32	32	30	40	mg/kg	2,400
Lead	14	16	18	17	19	17	16	16	18	25	25	mg/kg	ne
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0	mg/kg	1.2
Molybdenum	3.5	4.7	4.9	4.6	4.7	4.4	4	4	5.1	4.3	5.1	mg/kg	ne
Nickel	35.5	43	41.2	51	39.2	39.7	47.4	37.9	44.7	34.1	51	mg/kg	130
Selenium	1	2	5	1	<1	2	1	<1	1	1	5	mg/kg	250
Zinc	62	94	98	101	90	86	83	103	91	164	164	mg/kg	3,700
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0	mg/kg	6*

S4UL - Metals (Residential with homegrown produce), Sandford Park, January - March 2020

Sample ID	WS12	WS12	WS13	WS13	WS14	WS14	WS14	BH03	BH04	BH05	Max Level Detected	Units	Residential with homegrown produce
Sample Depth (m)	1.7	2.5	0.7	1.4	0.7	1.7	2.7	3	3	3			
Antimony	2	2	2	2	2	2	2	1	2	2	2	mg/kg	ne
Arsenic	9.4	10.1	10.4	9.8	10.2	8.3	10.2	6.2	8.8	6.8	10.4	mg/kg	37
Barium	88	130	71	64	68	121	51	48	59	56	130	mg/kg	ne
Cadmium	1.9	1.8	2.3	1.9	2.3	2.1	2	1.2	1.8	1.6	2.3	mg/kg	11
Chromium	40.2	37.4	40.5	34.4	39.9	35.8	35.7	40	47.4	41.8	47.4	mg/kg	910
Copper	29	31	31	33	30	28	32	19	27	26	33	mg/kg	2,400
Lead	16	18	14	15	13	15	17	14	48	15	48	mg/kg	ne
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0	mg/kg	1.2
Molybdenum	4.4	4.5	3.5	4	3.8	4.4	4.3	3.5	3.7	3.6	4.5	mg/kg	ne
Nickel	41.1	39.3	40.5	41.7	41.1	35.6	38.2	23.7	33.7	33.5	41.7	mg/kg	130
Selenium	<1	3	<1	<1	1	1	3	2	3	2	3	mg/kg	250
Zinc	89	86	83	89	89	80	91	54	73	71	91	mg/kg	3,700
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0	mg/kg	6*

S4UL - Metals (Residential with homegrown produce), Sandford Park, January - March 2020

Sample ID	BH06	BH07	BH08	BH09	BH10	BH11	BH12
Sample Depth (m)	3	3	3	3	3	3	3
Antimony	2	1	2	2	2	2	2
Arsenic	10.3	5.2	9.5	10.6	10	10.6	10.2
Barium	84	39	90	76	75	76	78
Cadmium	2	1	2	2.3	1.8	2.4	1.8
Chromium	44.4	28.8	43.9	43.2	42.5	52.4	39.3
Copper	33	18	32	28	33	35	32
Lead	18	12	20	17	18	19	17
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	4.1	2.5	3.7	5	4	4.3	3.8
Nickel	40.2	22	38.7	35.6	39	38.6	36.3
Selenium	3	2	2	3	4	3	6
Zinc	89	50	84	89	83	130	67
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

Max Level Detected	Units	Residential with homegrown produce
2	mg/kg	ne
10.6	mg/kg	37
90	mg/kg	ne
2.4	mg/kg	11
52.4	mg/kg	910
35	mg/kg	2,400
20	mg/kg	ne
0	mg/kg	1.2
5	mg/kg	ne
40.2	mg/kg	130
6	mg/kg	250
130	mg/kg	3,700
0	mg/kg	6*

SULL - Organic Compounds (Residential with homegrown produce), Sanford Park, January 2020

SULL - Organic Compounds Resident with homegrown produce Sanford Park, January 2020													Resident with homegrown produce			
Residential	CBR01	CBR02	CBR03	CBR04	CBR06	CBR07	CBR08	CBR09	CBR10	WS01	Max Level Detected	Units	LOMIC/CH Surrogate Use Levels (SULLs) (mg/kg DW)	1 % SOM	2.5 % SOM	6 % SOM
Aliphatics																
>C5-C6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	42	78	160	
>C6-C8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	100	230	530	
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	27	65	160	
>C10-C12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.00	mg/kg	130	330	760	
>C12-C16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.00	mg/kg	1,100	2,400	4,300	
>C16-C21	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne	
>C21-C35	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne	
>C16-C35	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	0.00	mg/kg	65000	82000	110000	
>C5-C40	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne	
Total aliphatics C5-40	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	0.00	mg/kg	ne	ne	ne	
>C5-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	ne	ne	ne	
>C10-C25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne	
>C25-C35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne	
Aromatics																
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	70	140	300	
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	130	290	660	
>EC8-EC10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	34	83	190	
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.00	mg/kg	74	180	390	
>EC12-EC16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.00	mg/kg	140	330	660	
>EC16-EC21	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	260	640	930	
>EC21-EC25	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	1,100	1,500	1,700	
>EC25-EC40	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	0.00	mg/kg	ne	ne	ne	
Total aromatics C5-40	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	0.00	mg/kg	ne	ne	ne	
Total aliphatics and aromatics (C5-40)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	ne	ne	ne	
>EC6-EC10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne	
>EC10-EC25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne	
BTEX																
MIBX	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	ne	ne	ne	
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	0.087	0.17	0.37	
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	130	290	660	
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	47	110	260	
m,p-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	56	130	310	
o-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	mg/kg	60	140	330	
TOC	0.86	0.8	0.88	0.95	0.65	0.65	0.49	0.81	1.01	0.79	0.43	%				
SOM (Note 1)	1.48	1.38	1.17	1.12	1.12	0.94	1.40	1.74	1.36	0.74						

Note 1: TOC = 1/24

SALU - Organic Compounds (Residential with homegrown produce), Sanford P.M., January 2020																	Residential with homegrown produce LOHNCHEIT Suite 4 Use Levels (SALUs) (mg/kg DW)										
Residential	WS01		WS01		WS02		WS02		WS03		WS03		WS04		WS04		Max Level Detected	Units	1% SOM			2.5 % SOM			6 % SOM		
	1.7	2.4	0.7	1.7	2.5	0.7	1.7	2.7	0.7	1.7	0.66	0.66	1% SOM	2.5 % SOM	6 % SOM												
Aliphatics																											
>C5-C6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	42	78	160						
>C6-C8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	100	230	530						
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	32	65	150						
>C10-C12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.00	mg/kg	130	330	760						
>C12-C16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.00	mg/kg	1,100	2,400	4,300						
>C16-C21	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne						
>C21-C35	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne						
>C35-C40	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	0.00	mg/kg	65000	82000	110000						
Total aliphatics C5-40																											
>C5-C10	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	0.00	mg/kg	ne	ne	ne						
>C10-C26	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne						
>C26-C35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne						
Aromatics																											
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	70	140	300						
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	130	290	660						
>EC8-EC10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	34	83	190						
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.00	mg/kg	74	180	390						
>EC12-EC16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.00	mg/kg	140	330	660						
>EC16-EC21	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	260	540	930						
>EC21-EC25	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	1,100	1,500	1,700						
Total aromatics C5-40																											
>EC5-EC40	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	<28	0.00	mg/kg	ne	ne	ne						
Total aliphatics and aromatics(C5-40)																											
>EC5-EC10	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	0.00	mg/kg	ne	ne	ne						
>EC10-EC25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne						
>EC25-EC35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne						
BTEX																											
BTEX	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	ne	ne	ne						
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	0.087	0.17	0.37						
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	130	290	660						
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	47	110	260						
m,p-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	56	130	310						
o-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015	mg/kg	60	140	330						
TOC	0.35	0.37	0.48	0.4	0.39	0.37	0.33	0.49	0.37	0.39	0.37	0.39	0.37	0.39	0.37	0.39		%									
SOM (Nile 1)	0.60	0.54	0.83	0.59	0.67	0.54	0.57	0.94	0.54	0.57	0.94	0.54	0.57	0.94	0.54	0.57											

Note 1 - TOC - 1.724

SHUL - Organic Compounds (Residential with homegrown produce), Sanford Park, January 2020															
Residential	WS05	WS05	WS06	WS06	WS07	WS07	WS08	WS08	WS08	WS08	Max Level	Units	Residential with homegrown produce LOM/CHEN Suite 4 Use Levels (SHULs) (mg/kg DW)		
											Detected		1 % SOM	2.5 % SOM	6 % SOM
Aliphatics															
>C5-C6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	42	78	160
>C8-C8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	100	230	530
>C9-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	27	66	150
>C10-C12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.00	mg/kg	130	330	780
>C12-C16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.00	mg/kg	1,100	2,400	4,300
>C16-C21	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne
>C21-C25	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne
>C25-C35	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	0.00	mg/kg	65000	92000	110000
>C35-C40	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne
Total aliphatics C5-40	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	0.00	mg/kg	ne	ne	ne
>C5-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	ne	ne	ne
>C10-C25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne
>C25-C35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne
Aromatics															
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	70	140	300
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	130	290	660
>EC8-EC10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	34	83	190
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.00	mg/kg	74	180	380
>EC12-EC16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.00	mg/kg	140	330	660
>EC16-EC21	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	290	640	930
>EC21-EC25	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	1,100	1,500	1,700
>EC25-EC40	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	0.00	mg/kg	ne	ne	ne
Total aromatics C5-40	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	0.00	mg/kg	ne	ne	ne
Total aliphatics and aromatics (C5-40)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	ne	ne	ne
>EC10-EC25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne
>EC25-EC35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne
BTEX															
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	ne	ne	ne
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	0.087	0.17	0.37
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	130	290	660
m,p-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	47	110	260
o-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000	mg/kg	56	130	310
TOC	0.38	0.4	0.55	0.37	0.32	0.41	0.61	0.44	0.36	0.69		%	60	140	330
SOM (NMR 1)	0.65	0.59	0.95	0.84	0.55	0.71	1.05	0.76	0.62	1.19					

Note 1: TOC = 1/724

SALU - Organic Compounds (Residential with homegrown produce), Saverford Park, January 2020													Residential with homegrown produce		
Residential	WS09	WS09	WS09	WS10	WS10	WS10	WS11	WS11	WS11	WS12	Max Level Detected	Units	1% SOM	2.5% SOM	5% SOM
Aliphatics															
>C5-C6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	42	78	160
>C6-C8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	100	230	530
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	27	65	150
>C10-C12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.00	mg/kg	130	330	760
>C12-C16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.00	mg/kg	1,100	2,400	4,300
>C16-C21	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne
>C21-C35	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne
>C35-C40	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	0.00	mg/kg	65000	82000	110000
Total aliphatics C5-40	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	0.00	mg/kg	ne	ne	ne
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	ne	ne	ne
>C10-C25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne
>C25-C35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne
Aromatics															
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	70	140	300
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	130	290	660
>EC8-EC10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	34	83	180
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.00	mg/kg	74	180	380
>EC12-EC16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.00	mg/kg	140	330	680
>EC16-EC21	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	280	640	930
>EC21-EC35	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	1,100	1,500	1,700
>EC35-EC40	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne
Total aromatics C5-40	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	0.00	mg/kg	ne	ne	ne
Total aliphatics and aromatics C5-40	<62	<62	<62	<62	<62	<62	<62	<62	<62	<62	0.00	mg/kg	ne	ne	ne
>ECOC-EC10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	ne	ne	ne
>EC10-EC25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne
>EC25-EC35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne
BTEX															
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	ne	ne	ne
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	0.087	0.17	0.37
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	130	290	660
m,p-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	47	110	260
o-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	56	130	310
TOC	0.38	0.4	0.69	0.37	0.37	0.49	0.39	0.38	0.3	1.06		%			330
SOM (Data 1)	0.65	0.69	1.19	0.64	0.64	0.94	0.67	0.67	0.52	1.83					

Note 1 - TOC = 1.724

SUL - Organic Compounds (Residential with homegrown produce), Sanford Park, January - March 2020														Residential with homegrown produce			
Residential	WS12		WS13		WS14		WS15		WS16		WS17		Max Level	Units	LOMCI/CH Surrogate & Use Levels (SULs) [mg/kg DW]		
	1.7	2.3	0.7	1.4	0.7	1.7	2.7	3	3	3	3	3			1 % SOM	2.3 % SOM	6 % SOM
Aliphatics																	
>C5-C6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	4.2	78	160
>C6-C8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	100	230	530
>C8-C10	<0.1	<0.1	<0.1	0.20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.20	mg/kg	27	66	150
>C10-C12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.00	mg/kg	130	330	780
>C12-C16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.00	mg/kg	1,100	2,400	4,300
>C16-C21	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne
>C21-C26	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne
>C26-C35	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	0.00	mg/kg	65000	92000	110000
>C35-C40	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	ne	ne	ne
Total aliphatics C5-40	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	0.00	mg/kg	ne	ne	ne
>C5-C10	<0.1	<0.1	<0.1	0.20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.20	mg/kg	ne	ne	ne
>C10-C25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne
>C25-C35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne
Aromatics																	
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	70	140	300
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	130	290	660
>EC8-EC10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	34	83	180
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.00	mg/kg	74	180	380
>EC12-EC16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.00	mg/kg	140	330	680
>EC16-EC21	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	200	540	830
>EC21-EC26	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	0.00	mg/kg	1,100	1,500	1,700
>EC26-EC40	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	0.00	mg/kg	ne	ne	ne
Total aromatics C5-40	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	0.00	mg/kg	ne	ne	ne
Total aliphatics and aromatics C5-40	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	ne	ne	ne
>EC5-EC10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00	mg/kg	ne	ne	ne
>EC10-EC25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne
>EC25-EC35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.00	mg/kg	ne	ne	ne
BTEX																	
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	ne	ne	ne
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	0.087	0.17	0.37
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	130	290	660
m,p-Xylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00	mg/kg	47	110	280
o-Xylene	<0.005	<0.005	<0.005	0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015	mg/kg	56	130	310
LOC	0.35	0.96	0.32	0.27	0.36	0.34	0.69	0.54	0.57	0.53	0.57	0.53		mg/kg	60	140	330
SOM (Nokai 1)	0.60	1.14	0.55	0.64	0.62	0.59	1.19	0.53	0.58	1.06				%			

Note 1 - LOC - 1/7/24

