

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)



5KZHC-1J7LH-TDNMK

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

Job name

P2344 Material Recovery Facility

Description/Comments

Waste Classification of intrusive site investigations soil sampling results at proposed Material Recovery Facility for Oxigen Environmental Unlimited Company.

Project

P2344

Site

Derryarkin, Croghan, Co. Offaly

Classified by

Name: **Declan Morrissey**
 Company: **Fehily & Timoney Co**
 Date: **12 Oct 2021 13:07 GMT**
 Telephone:

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

CERTIFIED

Course

Hazardous Waste Classification

Date

05 Aug 2021

Next 3 year Refresher due by Aug 2024

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP2	0.5 - 0.9	Non Hazardous		2
2	TP5	0.2 - 0.7	Non Hazardous		5
3	BH3	1	Non Hazardous		8
4	BH5	0.5	Non Hazardous		11

Related documents

#	Name	Description
1	P2344 Material Recovery Facility	waste stream template used to create this Job

Report

Created by: Declan Morrissey

Created date: 12 Oct 2021 13:07 GMT

Appendices

Appendix	Page
Appendix A: Classifier defined and non CLP determinands	14
Appendix B: Rationale for selection of metal species	15
Appendix C: Version	16

Classification of sample: TP2

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

Sample details

Sample name:	LoW Code:
TP2	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 - 09 m	
Moisture content:	
9.1%	
(no correction)	

Hazard properties

None identified

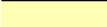



Determinands

Moisture content: 9.1% No 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	boron { boron tribromide }				0.42	mg/kg	23.173	9.733	mg/kg	0.000973 %		
	005-003-00-0	233-657-9	10294-33-4									
2	sulfur { sulphur dichloride }				7.6	mg/kg	3.211	24.406	mg/kg	0.00244 %		
	016-013-00-X	234-129-0	10545-99-0									
3	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
4	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				21	mg/kg	1.895	39.785	mg/kg	0.00398 %		
	033-005-00-1											
5	barium { barium chromate }				21	mg/kg	1.845	38.738	mg/kg	0.00387 %		
		233-660-5	10294-40-3									
6	cadmium { cadmium sulfate }				0.27	mg/kg	1.855	0.501	mg/kg	0.0000501 %		
	048-009-00-9	233-331-6	10124-36-4									
7	molybdenum { molybdenum(VI) oxide }				<2	mg/kg	1.5	<3	mg/kg	<0.0003 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
8	antimony { antimony trioxide }				<2	mg/kg	1.197	<2.394	mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
9	copper { copper sulphate pentahydrate }				4.7	mg/kg	3.929	18.467	mg/kg	0.00185 %		
	029-023-00-4	231-847-6	7758-99-8									
10	mercury { mercury difulminate }				<0.1	mg/kg	1.419	<0.142	mg/kg	<0.0000142 %		<LOD
	080-005-00-2	211-057-8	628-86-4									
11	nickel { nickel diiodide }				9.1	mg/kg	5.324	48.451	mg/kg	0.00485 %		
	028-029-00-4	236-666-6	13462-90-3									
12	lead { lead chromate }			1	3.5	mg/kg	1.56	5.459	mg/kg	0.00035 %		
	082-004-00-2	231-846-0	7758-97-6									
13	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2	mg/kg	1.405	<0.281	mg/kg	<0.0000281 %		<LOD
	034-002-00-8											
14	zinc { zinc chromate }				20	mg/kg	2.774	55.483	mg/kg	0.00555 %		
	024-007-00-3	236-878-9	13530-65-9									

#	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	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				6	mg/kg	1.462	8.769	mg/kg	0.000877 %		
		215-160-9	1308-38-9									
16	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
17	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
			TPH									
18	benzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
19	toluene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
20	ethylbenzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
21	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1	mg/kg		<1	mg/kg	<0.0001 %		<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]									
22	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
23	naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
24	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
25	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
26	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
27	phenanthrene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
		201-581-5	85-01-8									
28	anthracene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		204-371-1	120-12-7									
29	fluoranthene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
		205-912-4	206-44-0									
30	pyrene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
		204-927-3	129-00-0									
31	benzo[a]anthracene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
	601-033-00-9	200-280-6	56-55-3									
32	chrysene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
	601-048-00-0	205-923-4	218-01-9									
33	benzo[b]fluoranthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
34	benzo[k]fluoranthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
35	benzo[a]pyrene; benzo[def]chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
36	indeno[123-cd]pyrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-893-2	193-39-5									
37	dibenz[a,h]anthracene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
38	benzo[ghi]perylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-883-8	191-24-2									
39	coronene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-881-7	191-07-1									
40	polychlorobiphenyls; PCB				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-039-00-4	215-648-1	1336-36-3									
41	phenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0272 %		

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 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"
Force this Hazardous property to non hazardous because Reported barium concentrations are within the EPA national background levels (median Ba concentration in Irish soils = 230.2 mg/kg, 98th percentile = 545.5 mg/kg; Environmental Protection Agency, Towards a National Soil Database, 2001-CD/S2-M2, 2007), and are therefore not considered to be hazardous in terms of the oxidising hazardous property (HP2).

Hazard Statements hit:

Ox. Sol. 2; H272 "May intensify fire; oxidiser."

Because of determinand:

barium chromate: (compound conc.: 0.00387%)

Classification of sample: TP5

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

Sample details

Sample name:	LoW Code:	
TP5	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 - 0.7 m		
Moisture content:		
7%		
(no correction)		

Hazard properties

None identified

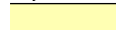



Determinands

Moisture content: 7% No 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	boron { boron tribromide }				<0.4 mg/kg	23.173	<9.269 mg/kg	<0.000927 %		<LOD
	005-003-00-0	233-657-9	10294-33-4							
2	sulfur { sulphur dichloride }				2.7 mg/kg	3.211	8.671 mg/kg	0.000867 %		
	016-013-00-X	234-129-0	10545-99-0							
3	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
4	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				29 mg/kg	1.895	54.941 mg/kg	0.00549 %		
	033-005-00-1									
5	barium { barium chromate }				20 mg/kg	1.845	36.893 mg/kg	0.00369 %		
		233-660-5	10294-40-3							
6	cadmium { cadmium sulfate }				0.51 mg/kg	1.855	0.946 mg/kg	0.0000946 %		
	048-009-00-9	233-331-6	10124-36-4							
7	molybdenum { molybdenum(VI) oxide }				<2 mg/kg	1.5	<3 mg/kg	<0.0003 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
8	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
9	copper { copper sulphate pentahydrate }				9.1 mg/kg	3.929	35.754 mg/kg	0.00358 %		
	029-023-00-4	231-847-6	7758-99-8							
10	mercury { mercury difulminate }				<0.1 mg/kg	1.419	<0.142 mg/kg	<0.0000142 %		<LOD
	080-005-00-2	211-057-8	628-86-4							
11	nickel { nickel diiodide }				18 mg/kg	5.324	95.837 mg/kg	0.00958 %		
	028-029-00-4	236-666-6	13462-90-3							
12	lead { lead chromate }			1	6 mg/kg	1.56	9.359 mg/kg	0.0006 %		
	082-004-00-2	231-846-0	7758-97-6							
13	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2 mg/kg	1.405	<0.281 mg/kg	<0.0000281 %		<LOD
	034-002-00-8									
14	zinc { zinc chromate }				31 mg/kg	2.774	85.999 mg/kg	0.0086 %		
	024-007-00-3	236-878-9	13530-65-9							

#	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	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11	mg/kg	1.462	16.077	mg/kg	0.00161 %		
	215-160-9		1308-38-9									
16	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
17	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
			TPH									
18	benzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
19	toluene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
20	ethylbenzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
21	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1	mg/kg		<1	mg/kg	<0.0001 %		<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]									
22	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
23	naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
24	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
25	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
26	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
27	phenanthrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-581-5	85-01-8									
28	anthracene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		204-371-1	120-12-7									
29	fluoranthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-912-4	206-44-0									
30	pyrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		204-927-3	129-00-0									
31	benzo[a]anthracene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
32	chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
33	benzo[b]fluoranthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
34	benzo[k]fluoranthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
35	benzo[a]pyrene; benzo[def]chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
36	indeno[123-cd]pyrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-893-2	193-39-5									
37	dibenz[a,h]anthracene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
38	benzo[ghi]perylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-883-8	191-24-2									
39	coronene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-881-7	191-07-1									
40	polychlorobiphenyls; PCB				<0.001	mg/kg		<0.001	mg/kg	<0.000001 %		<LOD
	602-039-00-4	215-648-1	1336-36-3									
41	phenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
										Total:	0.0374 %	

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 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"
Force this Hazardous property to non hazardous because Reported barium concentrations are within the EPA national background levels (median Ba concentration in Irish soils = 230.2 mg/kg, 98th percentile = 545.5 mg/kg; Environmental Protection Agency, Towards a National Soil Database, 2001-CD/S2-M2, 2007), and are therefore not considered to be hazardous in terms of the oxidising hazardous property (HP2).


Hazard Statements hit:

Ox. Sol. 2; H272 "May intensify fire; oxidiser."

Because of determinand:

barium chromate: (compound conc.: 0.00369%)

Classification of sample: BH3

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

Sample details

Sample name:	LoW Code:
BH3	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m	
Moisture content:	
16%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **16% No 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	boron { boron tribromide }				0.42	mg/kg	23.173	9.733	mg/kg	0.000973 %		
	005-003-00-0	233-657-9	10294-33-4									
2	sulfur { sulphur dichloride }				<1	mg/kg	3.211	<3.211	mg/kg	<0.000321 %		<LOD
	016-013-00-X	234-129-0	10545-99-0									
3	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
4	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				12	mg/kg	1.895	22.734	mg/kg	0.00227 %		
	033-005-00-1											
5	barium { barium chromate }				18	mg/kg	1.845	33.204	mg/kg	0.00332 %		
		233-660-5	10294-40-3									
6	cadmium { cadmium sulfate }				0.36	mg/kg	1.855	0.668	mg/kg	0.0000668 %		
	048-009-00-9	233-331-6	10124-36-4									
7	molybdenum { molybdenum(VI) oxide }				<2	mg/kg	1.5	<3	mg/kg	<0.0003 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
8	antimony { antimony trioxide }				<2	mg/kg	1.197	<2.394	mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
9	copper { copper sulphate pentahydrate }				47	mg/kg	3.929	184.665	mg/kg	0.0185 %		
	029-023-00-4	231-847-6	7758-99-8									
10	mercury { mercury difulminate }				<0.1	mg/kg	1.419	<0.142	mg/kg	<0.0000142 %		<LOD
	080-005-00-2	211-057-8	628-86-4									
11	nickel { nickel diiodide }				7.7	mg/kg	5.324	40.997	mg/kg	0.0041 %		
	028-029-00-4	236-666-6	13462-90-3									
12	lead { lead chromate }			1	6.4	mg/kg	1.56	9.983	mg/kg	0.00064 %		
	082-004-00-2	231-846-0	7758-97-6									
13	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2	mg/kg	1.405	<0.281	mg/kg	<0.0000281 %		<LOD
	034-002-00-8											
14	zinc { zinc chromate }				15	mg/kg	2.774	41.612	mg/kg	0.00416 %		
	024-007-00-3	236-878-9	13530-65-9									

#	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	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				6	mg/kg	1.462	8.769	mg/kg	0.000877 %		
		215-160-9	1308-38-9									
16	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
17	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
			TPH									
18	benzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
19	toluene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
20	ethylbenzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
21	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1	mg/kg		<1	mg/kg	<0.0001 %		<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]									
22	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
23	naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
24	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
25	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
26	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
27	phenanthrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-581-5	85-01-8									
28	anthracene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		204-371-1	120-12-7									
29	fluoranthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-912-4	206-44-0									
30	pyrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		204-927-3	129-00-0									
31	benzo[a]anthracene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
32	chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
33	benzo[b]fluoranthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
34	benzo[k]fluoranthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
35	benzo[a]pyrene; benzo[def]chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
36	indeno[123-cd]pyrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-893-2	193-39-5									
37	dibenz[a,h]anthracene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
38	benzo[ghi]perylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-883-8	191-24-2									
39	coronene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-881-7	191-07-1									
40	polychlorobiphenyls; PCB				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-039-00-4	215-648-1	1336-36-3									
41	phenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
	604-001-00-2	203-632-7	108-95-2									

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 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"
Force this Hazardous property to non hazardous because Reported barium concentrations are within the EPA national background levels (median Ba concentration in Irish soils = 230.2 mg/kg, 98th percentile = 545.5 mg/kg; Environmental Protection Agency, Towards a National Soil Database, 2001-CD/S2-M2, 2007), and are therefore not considered to be hazardous in terms of the oxidising hazardous property (HP2).

Hazard Statements hit:

Ox. Sol. 2; H272 "May intensify fire; oxidiser."

Because of determinand:

barium chromate: (compound conc.: 0.00332%)

Offaly County Council, Planning Dept. - Inspection Purposes Only

Classification of sample: BH5

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

Sample details

Sample name:	LoW Code:	
BH5	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		
Moisture content:		
8.2% (no correction)		

Hazard properties

None identified

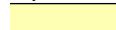



Determinands

Moisture content: 8.2% No 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	boron { boron tribromide }				<0.4 mg/kg	23.173	<9.269 mg/kg	<0.000927 %		<LOD
	005-003-00-0	233-657-9	10294-33-4							
2	sulfur { sulphur dichloride }				<1 mg/kg	3.211	<3.211 mg/kg	<0.000321 %		<LOD
	016-013-00-X	234-129-0	10545-99-0							
3	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
4	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				21 mg/kg	1.895	39.785 mg/kg	0.00398 %		
	033-005-00-1									
5	barium { barium chromate }				19 mg/kg	1.845	35.048 mg/kg	0.0035 %		
		233-660-5	10294-40-3							
6	cadmium { cadmium sulfate }				0.42 mg/kg	1.855	0.779 mg/kg	0.0000779 %		
	048-009-00-9	233-331-6	10124-36-4							
7	molybdenum { molybdenum(VI) oxide }				<2 mg/kg	1.5	<3 mg/kg	<0.0003 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
8	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
9	copper { copper sulphate pentahydrate }				4 mg/kg	3.929	15.716 mg/kg	0.00157 %		
	029-023-00-4	231-847-6	7758-99-8							
10	mercury { mercury difulminate }				<0.1 mg/kg	1.419	<0.142 mg/kg	<0.0000142 %		<LOD
	080-005-00-2	211-057-8	628-86-4							
11	nickel { nickel diiodide }				12 mg/kg	5.324	63.892 mg/kg	0.00639 %		
	028-029-00-4	236-666-6	13462-90-3							
12	lead { lead chromate }			1	5.8 mg/kg	1.56	9.047 mg/kg	0.00058 %		
	082-004-00-2	231-846-0	7758-97-6							
13	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2 mg/kg	1.405	<0.281 mg/kg	<0.0000281 %		<LOD
	034-002-00-8									
14	zinc { zinc chromate }				24 mg/kg	2.774	66.58 mg/kg	0.00666 %		
	024-007-00-3	236-878-9	13530-65-9							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	M/C Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
15	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				8.9	mg/kg	1.462	13.008	mg/kg	0.0013 %		
		215-160-9	1308-38-9									
16	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
17	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
			TPH									
18	benzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
19	toluene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
20	ethylbenzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
21	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<1	mg/kg		<1	mg/kg	<0.0001 %		<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]									
22	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
23	naphthalene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
24	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
25	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
26	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
27	phenanthrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-581-5	85-01-8									
28	anthracene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		204-371-1	120-12-7									
29	fluoranthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-912-4	206-44-0									
30	pyrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		204-927-3	129-00-0									
31	benzo[a]anthracene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
32	chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
33	benzo[b]fluoranthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
34	benzo[k]fluoranthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
35	benzo[a]pyrene; benzo[def]chrysene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
36	indeno[123-cd]pyrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-893-2	193-39-5									
37	dibenz[a,h]anthracene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
38	benzo[ghi]perylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-883-8	191-24-2									
39	coronene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-881-7	191-07-1									
40	polychlorobiphenyls; PCB				<0.001	mg/kg		<0.001	mg/kg	<0.000001 %		<LOD
	602-039-00-4	215-648-1	1336-36-3									
41	phenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
	604-001-00-2	203-632-7	108-95-2									

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 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"
Force this Hazardous property to non hazardous because Reported barium concentrations are within the EPA national background levels (median Ba concentration in Irish soils = 230.2 mg/kg, 98th percentile = 545.5 mg/kg; Environmental Protection Agency, Towards a National Soil Database, 2001-CD/S2-M2, 2007), and are therefore not considered to be hazardous in terms of the oxidising hazardous property (HP2).

Hazard Statements hit:

Ox. Sol. 2; H272 "May intensify fire; oxidiser."

Because of determinand:

barium chromate: (compound conc.: 0.0035%)

Appendix A: Classifier defined and non CLP determinands

salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

CLP index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

barium chromate (EC Number: 233-660-5, CAS Number: 10294-40-3)

Description/Comments: Data from ECHA's C&L inventory database and Sigma Aldrich SDS Revision 6.2 dated 08/05/20

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/38286>

Data source date: 12 May 2020

Hazard Statements: Ox. Sol. 2 H272 , Acute Tox. 4 H302 , Acute Tox. 4 H332 , Carc. 1B H350

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

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

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

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

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

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

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

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 Acute 1 H400 , Aquatic Chronic 1 H410

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

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

• **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: Acute Tox. 4 H302 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

• **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: Skin Irrit. 2 H315 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

• **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 Acute 1 H400 , Aquatic Chronic 1 H410

• **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

• **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

Appendix B: Rationale for selection of metal species

boron {boron tribromide}

worst case species

sulfur {sulphur dichloride}

worst case species

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Only default species available

arsenic {arsenic acid and its salts with the exception of those specified elsewhere in this Annex}

worst case species

barium {barium chromate}

worst case species

cadmium {cadmium sulfate}

worst case species

molybdenum {molybdenum(VI) oxide}

worst case species

antimony {antimony trioxide}

worst case species

copper {copper sulphate pentahydrate}

worst case species

mercury {mercury difulminate}

worst case species

nickel {nickel diiodide}

worst case species

lead {lead chromate}

worst case species

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

worst case species

zinc {zinc chromate}

worst case species

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

worst case species

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

worst case species

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2021.246.4869.9247 (05 Sep 2021)

HazWasteOnline Database: 2021.246.4869.9247 (05 Sep 2021)

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 Waste 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

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2019 - UK: 2019 No. 720 of 27th March 2019

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK:

2020 No. 1540 of 16th December 2020

POPs Regulation 2019 - Regulation (EU) 2019/1021 of 20 June 2019