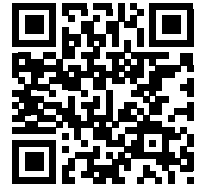


Waste Classification Report

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)



LEPVA-SYUF8-ZNP53

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

Report is invalid if pages are removed.

Job name

HWOL_26-10818-20260429 181135

Description/Comments

26/03/7554-TP1
26/03/7555-TP2
26/03/7556-TP3
26/03/7557-TP4
26/03/7558-TP5
26/03/7559-TP6

Project

The Department of Defence

Site

Sarsfield Barracks

Classified by

Name: **Chris McNamara**
Date: **30 Apr 2026 06:34 GMT**
Telephone: **061455399**
Company: **BHP Laboratories**
New Road
Thomondgate
Limerick
V94P9X4

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 Feb 2026

Next 3 year Refresher due by Feb 2029

Purpose of classification

2 - Material Characterisation

Address of the waste

Sarsfield Barracks

Post Code **N/A**

Description of industry/producer giving rise to the waste

Construction works on site.

Description of the specific process, sub-process and/or activity that created the waste

Waste created from excavations.

Description of the waste

Waste materials removed from site - brown, CLAY/SAND with some gravel/cobbles.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	WAC Results		Page
					Inert	Non Haz	
1	26/03/7554-2105723-		Non Hazardous		Pass	Pass	3
2	26/03/7555-2105724-		Non Hazardous		Pass	Pass	7
3	26/03/7556-2105725-		Non Hazardous		Pass	Pass	11
4	26/03/7557-2105726-		Non Hazardous		Pass	Pass	15
5	26/03/7558-2105727-		Non Hazardous		Pass	Pass	19
6	26/03/7559-2105728-		Non Hazardous		Pass	Pass	23

Related documents

#	Name	Description
1	HWOL_26-10818-20260429 181135.hwol	Eurofins Chemtest .hwol file used to populate the Job
2	Example worst case waste stream template: 17 05 04 or 17 05 03 *	waste stream template used to create this Job

WAC Results

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate the samples in this Job: "Ireland"

The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

Report

Created by: Chris McNamara

Created date: 30 Apr 2026 06:34 GMT

Appendices	Page
Appendix A: Classifier defined and non EU CLP determinands	27
Appendix B: Rationale for selection of metal species	28
Appendix C: Version	29

Classification of sample: 26/03/7554-2105723-

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

Sample details

Sample name:	LoW Code:
26/03/7554-2105723-	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
16%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

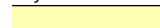
Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	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								
2	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				16 mg/kg	1.895	25.462	mg/kg	0.00255 %	✓	
	033-005-00-1										
3	barium { barium diboron tetraoxide }				63 mg/kg	1.623	85.914	mg/kg	0.00859 %	✓	
	056-005-00-3	237-222-4	13701-59-2								
4	boron { boric acid; [1] boric acid [2] }			11	0.42 mg/kg	5.719	2.018	mg/kg	0.000202 %	✓	
	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]								
5	cadmium { cadmium sulfate }				0.76 mg/kg	1.855	1.184	mg/kg	0.000118 %	✓	
	048-009-00-9	233-331-6	10124-36-4								
6	chromium in Cr(III) compounds { chromium(III) oxide }				23 mg/kg	1.462	28.237	mg/kg	0.00282 %	✓	
		215-160-9	1308-38-9								
7	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<LOD
	024-017-00-8										
8	copper { copper sulphate pentahydrate }				17 mg/kg	3.929	56.107	mg/kg	0.00561 %	✓	
	029-023-00-4	231-847-6	7758-99-8								
9	lead { lead chromate }			1	37 mg/kg	1.56	48.479	mg/kg	0.00311 %	✓	
	082-004-00-2	231-846-0	7758-97-6								
10	mercury { mercury dichloride }				0.35 mg/kg	1.353	0.398	mg/kg	0.0000398 %	✓	
	080-010-00-X	231-299-8	7487-94-7								
11	molybdenum { molybdenum(VI) oxide }				1.6 mg/kg	1.5	2.016	mg/kg	0.000202 %	✓	
	042-001-00-9	215-204-7	1313-27-5								
12	nickel { nickel dibromate }				25 mg/kg	5.358	112.525	mg/kg	0.0113 %	✓	
	028-053-00-5	238-596-1	14550-87-9								
13	selenium { nickel selenate }				0.74 mg/kg	2.554	1.587	mg/kg	0.000159 %	✓	
	028-031-00-5	239-125-2	15060-62-5								
14	zinc { zinc chromate }				48 mg/kg	2.774	111.854	mg/kg	0.0112 %	✓	
	024-007-00-3	236-878-9	13530-65-9								
15	TPH (C6 to C40) petroleum group				<26.5 mg/kg		<26.5	mg/kg	<0.00265 %		<LOD
			TPH								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
17	benzene 601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
18	toluene 601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
19	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
20	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]		<0.002 mg/kg		<0.002 mg/kg		<0.0000002 %		<LOD
21	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 } 006-007-00-5				<0.5 mg/kg	1.884	<0.942 mg/kg		<0.0000942 %		<LOD
22	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
23	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
24	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
25	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
26	phenanthrene 201-581-5	85-01-8			<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
27	anthracene 204-371-1	120-12-7			<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
28	fluoranthene 205-912-4	206-44-0			<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
29	pyrene 204-927-3	129-00-0			<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
30	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
31	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
32	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
33	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
34	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
35	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
36	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
37	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
38	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
39	sulfur { sulfur } 016-094-00-1	231-722-6	7704-34-9		<1 mg/kg		<1 mg/kg		<0.0001 %		<LOD
40	coronene 205-881-7	191-07-1			<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
41	monohydric phenols P1186				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
Total:									0.0458 %		

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
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: 26/03/7554-2105723-

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"

The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample **PASSES** the Inert (Inert waste landfill) criteria.

The sample **PASSES** the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand Header		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.83	3	-
2	LOI (loss on ignition)	%	2.2	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.05	1	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<0.05	100	-
7	pH	pH	8.7	-	-
8	ANC (acid neutralisation capacity)	mol/kg	0.058	-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.029	0.5	2
10	barium	mg/kg	<0.05	20	100
11	cadmium	mg/kg	<0.0011	0.04	1
12	chromium	mg/kg	0.0084	0.5	10
13	copper	mg/kg	0.028	2	50
14	mercury	mg/kg	<0.0005	0.01	0.2
15	molybdenum	mg/kg	0.031	0.5	10
16	nickel	mg/kg	0.0059	0.4	10
17	lead	mg/kg	0.0071	0.5	10
18	antimony	mg/kg	<0.005	0.06	0.7
19	selenium	mg/kg	<0.005	0.1	0.5
20	zinc	mg/kg	0.035	4	50
21	chloride	mg/kg	15	800	15000
22	fluoride	mg/kg	1.5	10	150
23	sulphate	mg/kg	53	1000	20000
24	phenol index	mg/kg	<0.3	1	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800
26	TDS (total dissolved solids)	mg/kg	1600	4000	60000

Key

User supplied data

Classification of sample: 26/03/7555-2105724-

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

Sample details

Sample name:	LoW Code:
26/03/7555-2105724-	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
13%	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: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				2.6 mg/kg	1.197	2.708	mg/kg	0.000271 %	✓	
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				18 mg/kg	1.895	29.668	mg/kg	0.00297 %	✓	
	033-005-00-1										
3	barium { barium diboron tetraoxide }				92 mg/kg	1.623	129.943	mg/kg	0.013 %	✓	
	056-005-00-3	237-222-4	13701-59-2								
4	boron { boric acid; [1] boric acid [2] }			11	0.56 mg/kg	5.719	2.786	mg/kg	0.000279 %	✓	
	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]								
5	cadmium { cadmium sulfate }				2.4 mg/kg	1.855	3.872	mg/kg	0.000387 %	✓	
	048-009-00-9	233-331-6	10124-36-4								
6	chromium in Cr(III) compounds { chromium(III) oxide }				20 mg/kg	1.462	25.431	mg/kg	0.00254 %	✓	
		215-160-9	1308-38-9								
7	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<LOD
	024-017-00-8										
8	copper { copper sulphate pentahydrate }				33 mg/kg	3.929	112.803	mg/kg	0.0113 %	✓	
	029-023-00-4	231-847-6	7758-99-8								
9	lead { lead chromate }			1	130 mg/kg	1.56	176.415	mg/kg	0.0113 %	✓	
	082-004-00-2	231-846-0	7758-97-6								
10	mercury { mercury dichloride }				0.49 mg/kg	1.353	0.577	mg/kg	0.0000577 %	✓	
	080-010-00-X	231-299-8	7487-94-7								
11	molybdenum { molybdenum(VI) oxide }				6.1 mg/kg	1.5	7.962	mg/kg	0.000796 %	✓	
	042-001-00-9	215-204-7	1313-27-5								
12	nickel { nickel dibromate }				31 mg/kg	5.358	144.514	mg/kg	0.0145 %	✓	
	028-053-00-5	238-596-1	14550-87-9								
13	selenium { nickel selenate }				1.5 mg/kg	2.554	3.333	mg/kg	0.000333 %	✓	
	028-031-00-5	239-125-2	15060-62-5								
14	zinc { zinc chromate }				110 mg/kg	2.774	265.486	mg/kg	0.0265 %	✓	
	024-007-00-3	236-878-9	13530-65-9								
15	TPH (C6 to C40) petroleum group				54.5 mg/kg		47.415	mg/kg	0.00474 %	✓	
			TPH								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
17	benzene 601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
18	toluene 601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
19	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
20	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]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
21	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 } 006-007-00-5				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
22	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
23	acenaphthylene 205-917-1	208-96-8			0.07 mg/kg		0.0609 mg/kg	0.00000609 %	✓		
24	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
25	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
26	phenanthrene 201-581-5	85-01-8			0.8 mg/kg		0.696 mg/kg	0.0000696 %	✓		
27	anthracene 204-371-1	120-12-7			0.28 mg/kg		0.244 mg/kg	0.0000244 %	✓		
28	fluoranthene 205-912-4	206-44-0			2.1 mg/kg		1.827 mg/kg	0.000183 %	✓		
29	pyrene 204-927-3	129-00-0			1.9 mg/kg		1.653 mg/kg	0.000165 %	✓		
30	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.99 mg/kg		0.861 mg/kg	0.0000861 %	✓		
31	chrysene 601-048-00-0	205-923-4	218-01-9		1.1 mg/kg		0.957 mg/kg	0.0000957 %	✓		
32	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		1.4 mg/kg		1.218 mg/kg	0.000122 %	✓		
33	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.55 mg/kg		0.479 mg/kg	0.0000479 %	✓		
34	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.3 mg/kg		1.131 mg/kg	0.000113 %	✓		
35	indeno[123-cd]pyrene 205-893-2	193-39-5			0.9 mg/kg		0.783 mg/kg	0.0000783 %	✓		
36	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.13 mg/kg		0.113 mg/kg	0.0000113 %	✓		
37	benzo[ghi]perylene 205-883-8	191-24-2			0.73 mg/kg		0.635 mg/kg	0.0000635 %	✓		
38	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
39	sulfur { sulfur } 016-094-00-1	231-722-6	7704-34-9		3.5 mg/kg		3.045 mg/kg	0.000305 %	✓		
40	coronene 205-881-7	191-07-1			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
41	monohydric phenols P1186				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
Total:									0.0903 %		

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
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 for cumulative determinand results below the concentration of: 10000 mg/kg (1%)
because: The soil had no liquid phase or liquid film meaning that the soil will not be flammable with TPH below 10,000 mg/kg

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00474%)

WAC results for sample: 26/03/7555-2105724-

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"

The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample **PASSES** the Inert (Inert waste landfill) criteria.

The sample **PASSES** the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand Header		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	2.1	3	-
2	LOI (loss on ignition)	%	2.9	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.05	1	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	12	100	-
7	pH	pH	8.3	-	-
8	ANC (acid neutralisation capacity)	mol/kg	0.025	-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.065	0.5	2
10	barium	mg/kg	<0.05	20	100
11	cadmium	mg/kg	<0.0011	0.04	1
12	chromium	mg/kg	<0.005	0.5	10
13	copper	mg/kg	0.019	2	50
14	mercury	mg/kg	<0.0005	0.01	0.2
15	molybdenum	mg/kg	0.022	0.5	10
16	nickel	mg/kg	<0.005	0.4	10
17	lead	mg/kg	0.0065	0.5	10
18	antimony	mg/kg	0.0075	0.06	0.7
19	selenium	mg/kg	<0.005	0.1	0.5
20	zinc	mg/kg	0.026	4	50
21	chloride	mg/kg	<10	800	15000
22	fluoride	mg/kg	1.5	10	150
23	sulphate	mg/kg	64	1000	20000
24	phenol index	mg/kg	<0.3	1	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800
26	TDS (total dissolved solids)	mg/kg	680	4000	60000

Key

User supplied data

Classification of sample: 26/03/7556-2105725-

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

Sample details

Sample name:	LoW Code:
26/03/7556-2105725-	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
16%	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: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	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							
2	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				11 mg/kg	1.895	17.505 mg/kg	0.00175 %	✓	
	033-005-00-1									
3	barium { barium diboron tetraoxide }				91 mg/kg	1.623	124.098 mg/kg	0.0124 %	✓	
	056-005-00-3	237-222-4	13701-59-2							
4	boron { boric acid; [1] boric acid [2] }			11	0.53 mg/kg	5.719	2.546 mg/kg	0.000255 %	✓	
	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]							
5	cadmium { cadmium sulfate }				0.62 mg/kg	1.855	0.966 mg/kg	0.0000966 %	✓	
	048-009-00-9	233-331-6	10124-36-4							
6	chromium in Cr(III) compounds { chromium(III) oxide }				16 mg/kg	1.462	19.643 mg/kg	0.00196 %	✓	
		215-160-9	1308-38-9							
7	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
8	copper { copper sulphate pentahydrate }				26 mg/kg	3.929	85.811 mg/kg	0.00858 %	✓	
	029-023-00-4	231-847-6	7758-99-8							
9	lead { lead chromate }			1	85 mg/kg	1.56	111.371 mg/kg	0.00714 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
10	mercury { mercury dichloride }				1.6 mg/kg	1.353	1.819 mg/kg	0.000182 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
11	molybdenum { molybdenum(VI) oxide }				1.6 mg/kg	1.5	2.016 mg/kg	0.000202 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
12	nickel { nickel dibromate }				25 mg/kg	5.358	112.525 mg/kg	0.0113 %	✓	
	028-053-00-5	238-596-1	14550-87-9							
13	selenium { nickel selenate }				0.81 mg/kg	2.554	1.738 mg/kg	0.000174 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
14	zinc { zinc chromate }				110 mg/kg	2.774	256.331 mg/kg	0.0256 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
15	TPH (C6 to C40) petroleum group				4.3 mg/kg		3.612 mg/kg	0.000361 %	✓	
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
17	benzene 601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
18	toluene 601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
19	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
20	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]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
21	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 } 006-007-00-5				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
22	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
23	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
25	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
26	phenanthrene 201-581-5	85-01-8			0.12 mg/kg		0.101 mg/kg	0.0000101 %	✓		
27	anthracene 204-371-1	120-12-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
28	fluoranthene 205-912-4	206-44-0			0.51 mg/kg		0.428 mg/kg	0.0000428 %	✓		
29	pyrene 204-927-3	129-00-0			0.48 mg/kg		0.403 mg/kg	0.0000403 %	✓		
30	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.27 mg/kg		0.227 mg/kg	0.0000227 %	✓		
31	chrysene 601-048-00-0	205-923-4	218-01-9		0.27 mg/kg		0.227 mg/kg	0.0000227 %	✓		
32	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.39 mg/kg		0.328 mg/kg	0.0000328 %	✓		
33	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.15 mg/kg		0.126 mg/kg	0.0000126 %	✓		
34	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.36 mg/kg		0.302 mg/kg	0.0000302 %	✓		
35	indeno[123-cd]pyrene 205-893-2	193-39-5			0.25 mg/kg		0.21 mg/kg	0.000021 %	✓		
36	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
37	benzo[ghi]perylene 205-883-8	191-24-2			0.21 mg/kg		0.176 mg/kg	0.0000176 %	✓		
38	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
39	sulfur { sulfur } 016-094-00-1	231-722-6	7704-34-9		14 mg/kg		11.76 mg/kg	0.00118 %	✓		
40	coronene 205-881-7	191-07-1			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
41	monohydric phenols P1186				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
Total:									0.0714 %		

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
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 for cumulative determinand results below the concentration of: 10000 mg/kg (1%)
because: The soil had no liquid phase or liquid film meaning that the soil will not be flammable with TPH below 10,000 mg/kg

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00036%)

WAC results for sample: 26/03/7556-2105725-

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"

The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample **PASSES** the Inert (Inert waste landfill) criteria.

The sample **PASSES** the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand Header		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	1.1	3	-
2	LOI (loss on ignition)	%	2.5	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.05	1	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	3	100	-
7	pH	pH	8.5	-	-
8	ANC (acid neutralisation capacity)	mol/kg	0.024	-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.048	0.5	2
10	barium	mg/kg	<0.05	20	100
11	cadmium	mg/kg	<0.0011	0.04	1
12	chromium	mg/kg	<0.005	0.5	10
13	copper	mg/kg	0.019	2	50
14	mercury	mg/kg	<0.0005	0.01	0.2
15	molybdenum	mg/kg	0.016	0.5	10
16	nickel	mg/kg	<0.005	0.4	10
17	lead	mg/kg	0.0064	0.5	10
18	antimony	mg/kg	0.011	0.06	0.7
19	selenium	mg/kg	<0.005	0.1	0.5
20	zinc	mg/kg	0.033	4	50
21	chloride	mg/kg	<10	800	15000
22	fluoride	mg/kg	1.5	10	150
23	sulphate	mg/kg	37	1000	20000
24	phenol index	mg/kg	<0.3	1	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800
26	TDS (total dissolved solids)	mg/kg	1200	4000	60000

Key

User supplied data

Classification of sample: 26/03/7557-2105726-

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

Sample details

Sample name:	LoW Code:
26/03/7557-2105726-	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
12%	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% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	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								
2	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				12 mg/kg	1.895	20.006	mg/kg	0.002 %	✓	
	033-005-00-1										
3	barium { barium diboron tetraoxide }				74 mg/kg	1.623	105.721	mg/kg	0.0106 %	✓	
	056-005-00-3	237-222-4	13701-59-2								
4	boron { boric acid; [1] boric acid [2] }			11	0.62 mg/kg	5.719	3.12	mg/kg	0.000312 %	✓	
	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]								
5	cadmium { cadmium sulfate }				0.42 mg/kg	1.855	0.685	mg/kg	0.0000685 %	✓	
	048-009-00-9	233-331-6	10124-36-4								
6	chromium in Cr(III) compounds { chromium(III) oxide }				16 mg/kg	1.462	20.579	mg/kg	0.00206 %	✓	
		215-160-9	1308-38-9								
7	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<LOD
	024-017-00-8										
8	copper { copper sulphate pentahydrate }				24 mg/kg	3.929	82.982	mg/kg	0.0083 %	✓	
	029-023-00-4	231-847-6	7758-99-8								
9	lead { lead chromate }			1	100 mg/kg	1.56	137.264	mg/kg	0.0088 %	✓	
	082-004-00-2	231-846-0	7758-97-6								
10	mercury { mercury dichloride }				0.95 mg/kg	1.353	1.132	mg/kg	0.000113 %	✓	
	080-010-00-X	231-299-8	7487-94-7								
11	molybdenum { molybdenum(VI) oxide }				1.1 mg/kg	1.5	1.452	mg/kg	0.000145 %	✓	
	042-001-00-9	215-204-7	1313-27-5								
12	nickel { nickel dibromate }				24 mg/kg	5.358	113.168	mg/kg	0.0113 %	✓	
	028-053-00-5	238-596-1	14550-87-9								
13	selenium { nickel selenate }				0.54 mg/kg	2.554	1.214	mg/kg	0.000121 %	✓	
	028-031-00-5	239-125-2	15060-62-5								
14	zinc { zinc chromate }				110 mg/kg	2.774	268.537	mg/kg	0.0269 %	✓	
	024-007-00-3	236-878-9	13530-65-9								
15	TPH (C6 to C40) petroleum group				9.9 mg/kg		8.712	mg/kg	0.000871 %	✓	
			TPH								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
17	benzene 601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
18	toluene 601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
19	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
20	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]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
21	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 } 006-007-00-5				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
22	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
23	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
25	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
26	phenanthrene 201-581-5	85-01-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
27	anthracene 204-371-1	120-12-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
28	fluoranthene 205-912-4	206-44-0			0.1 mg/kg		0.088 mg/kg	0.0000088 %	✓		
29	pyrene 204-927-3	129-00-0			0.09 mg/kg		0.0792 mg/kg	0.00000792 %	✓		
30	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
31	chrysene 601-048-00-0	205-923-4	218-01-9		0.06 mg/kg		0.0528 mg/kg	0.00000528 %	✓		
32	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.07 mg/kg		0.0616 mg/kg	0.00000616 %	✓		
33	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
34	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.07 mg/kg		0.0616 mg/kg	0.00000616 %	✓		
35	indeno[123-cd]pyrene 205-893-2	193-39-5			0.07 mg/kg		0.0616 mg/kg	0.00000616 %	✓		
36	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
37	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
38	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
39	sulfur { sulfur } 016-094-00-1	231-722-6	7704-34-9		12 mg/kg		10.56 mg/kg	0.00106 %	✓		
40	coronene 205-881-7	191-07-1			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
41	monohydric phenols P1186				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
Total:									0.0726 %		

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
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 for cumulative determinand results below the concentration of: 10000 mg/kg (1%)
because: The soil had no liquid phase or liquid film meaning that the soil will not be flammable with TPH below 10,000 mg/kg

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00087%)

WAC results for sample: 26/03/7557-2105726-

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"

The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample **PASSES** the Inert (Inert waste landfill) criteria.

The sample **PASSES** the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand Header		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.88	3	-
2	LOI (loss on ignition)	%	1.9	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.05	1	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	0.5	100	-
7	pH	pH	8.7	-	-
8	ANC (acid neutralisation capacity)	mol/kg	0.019	-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.08	0.5	2
10	barium	mg/kg	<0.05	20	100
11	cadmium	mg/kg	<0.0011	0.04	1
12	chromium	mg/kg	<0.005	0.5	10
13	copper	mg/kg	0.02	2	50
14	mercury	mg/kg	<0.0005	0.01	0.2
15	molybdenum	mg/kg	0.0097	0.5	10
16	nickel	mg/kg	<0.005	0.4	10
17	lead	mg/kg	0.0093	0.5	10
18	antimony	mg/kg	<0.005	0.06	0.7
19	selenium	mg/kg	<0.005	0.1	0.5
20	zinc	mg/kg	<0.025	4	50
21	chloride	mg/kg	<10	800	15000
22	fluoride	mg/kg	1.1	10	150
23	sulphate	mg/kg	26	1000	20000
24	phenol index	mg/kg	<0.3	1	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800
26	TDS (total dissolved solids)	mg/kg	520	4000	60000

Key

User supplied data

Classification of sample: 26/03/7558-2105727-

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

Sample details

Sample name:	LoW Code:
26/03/7558-2105727-	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
11%	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% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	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								
2	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				16 mg/kg	1.895	26.978 mg/kg		0.0027 %	✓	
	033-005-00-1										
3	barium { barium diboron tetraoxide }				82 mg/kg	1.623	118.481 mg/kg		0.0118 %	✓	
	056-005-00-3	237-222-4	13701-59-2								
4	boron { boric acid; [1] boric acid [2] }			11	0.53 mg/kg	5.719	2.698 mg/kg		0.00027 %	✓	
	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]								
5	cadmium { cadmium sulfate }				1.2 mg/kg	1.855	1.981 mg/kg		0.000198 %	✓	
	048-009-00-9	233-331-6	10124-36-4								
6	chromium in Cr(III) compounds { chromium(III) oxide }				23 mg/kg	1.462	29.918 mg/kg		0.00299 %	✓	
		215-160-9	1308-38-9								
7	chromium in Cr(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg		<0.000113 %		<LOD
	024-017-00-8										
8	copper { copper sulphate pentahydrate }				27 mg/kg	3.929	94.415 mg/kg		0.00944 %	✓	
	029-023-00-4	231-847-6	7758-99-8								
9	lead { lead chromate }			1	69 mg/kg	1.56	95.788 mg/kg		0.00614 %	✓	
	082-004-00-2	231-846-0	7758-97-6								
10	mercury { mercury dichloride }				0.12 mg/kg	1.353	0.145 mg/kg		0.0000145 %	✓	
	080-010-00-X	231-299-8	7487-94-7								
11	molybdenum { molybdenum(VI) oxide }				2.2 mg/kg	1.5	2.937 mg/kg		0.000294 %	✓	
	042-001-00-9	215-204-7	1313-27-5								
12	nickel { nickel dibromate }				38 mg/kg	5.358	181.218 mg/kg		0.0181 %	✓	
	028-053-00-5	238-596-1	14550-87-9								
13	selenium { nickel selenate }				0.71 mg/kg	2.554	1.614 mg/kg		0.000161 %	✓	
	028-031-00-5	239-125-2	15060-62-5								
14	zinc { zinc chromate }				120 mg/kg	2.774	296.279 mg/kg		0.0296 %	✓	
	024-007-00-3	236-878-9	13530-65-9								
15	TPH (C6 to C40) petroleum group				190 mg/kg		169.1 mg/kg		0.0169 %	✓	
			TPH								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
17	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
18	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
19	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
20	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<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]								
21	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										
22	naphthalene				0.13 mg/kg		0.116 mg/kg	0.0000116 %	✓		
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				0.11 mg/kg		0.0979 mg/kg	0.00000979 %	✓		
		205-917-1	208-96-8								
24	acenaphthene				0.96 mg/kg		0.854 mg/kg	0.0000854 %	✓		
		201-469-6	83-32-9								
25	fluorene				0.87 mg/kg		0.774 mg/kg	0.0000774 %	✓		
		201-695-5	86-73-7								
26	phenanthrene				7.9 mg/kg		7.031 mg/kg	0.000703 %	✓		
		201-581-5	85-01-8								
27	anthracene				2.5 mg/kg		2.225 mg/kg	0.000223 %	✓		
		204-371-1	120-12-7								
28	fluoranthene				15 mg/kg		13.35 mg/kg	0.00134 %	✓		
		205-912-4	206-44-0								
29	pyrene				13 mg/kg		11.57 mg/kg	0.00116 %	✓		
		204-927-3	129-00-0								
30	benzo[a]anthracene				6.2 mg/kg		5.518 mg/kg	0.000552 %	✓		
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				5.6 mg/kg		4.984 mg/kg	0.000498 %	✓		
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				7.6 mg/kg		6.764 mg/kg	0.000676 %	✓		
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				2.9 mg/kg		2.581 mg/kg	0.000258 %	✓		
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				7.2 mg/kg		6.408 mg/kg	0.000641 %	✓		
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				4.6 mg/kg		4.094 mg/kg	0.000409 %	✓		
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				0.58 mg/kg		0.516 mg/kg	0.0000516 %	✓		
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				3.5 mg/kg		3.115 mg/kg	0.000312 %	✓		
		205-883-8	191-24-2								
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	602-039-00-4	215-648-1	1336-36-3								
39	sulfur { sulfur }				22 mg/kg		19.58 mg/kg	0.00196 %	✓		
	016-094-00-1	231-722-6	7704-34-9								
40	coronene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-881-7	191-07-1								
41	monohydric phenols				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
			P1186								
Total:									0.108 %		

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
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 for cumulative determinand results below the concentration of: 10000 mg/kg (1%)
because: The soil had no liquid phase or liquid film meaning that the soil will not be flammable with TPH below 10,000 mg/kg

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0169%)

WAC results for sample: 26/03/7558-2105727-

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"

The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample **PASSES** the Inert (Inert waste landfill) criteria.

The sample **PASSES** the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand Header		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	1.3	3	-
2	LOI (loss on ignition)	%	0.72	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.05	1	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	79	100	-
7	pH	pH	8.3	-	-
8	ANC (acid neutralisation capacity)	mol/kg	0.051	-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.016	0.5	2
10	barium	mg/kg	0.17	20	100
11	cadmium	mg/kg	<0.0011	0.04	1
12	chromium	mg/kg	<0.005	0.5	10
13	copper	mg/kg	0.022	2	50
14	mercury	mg/kg	<0.0005	0.01	0.2
15	molybdenum	mg/kg	0.043	0.5	10
16	nickel	mg/kg	<0.005	0.4	10
17	lead	mg/kg	0.0058	0.5	10
18	antimony	mg/kg	0.015	0.06	0.7
19	selenium	mg/kg	<0.005	0.1	0.5
20	zinc	mg/kg	<0.025	4	50
21	chloride	mg/kg	<10	800	15000
22	fluoride	mg/kg	1.2	10	150
23	sulphate	mg/kg	140	1000	20000
24	phenol index	mg/kg	<0.3	1	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800
26	TDS (total dissolved solids)	mg/kg	650	4000	60000

Key

User supplied data

Classification of sample: 26/03/7559-2105728-

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

Sample details

Sample name:	LoW Code:
26/03/7559-2105728-	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
6.5%	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: 6.5% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	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							
2	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }				15 mg/kg	1.895	26.571 mg/kg	0.00266 %	✓	
	033-005-00-1									
3	barium { barium diboron tetraoxide }				54 mg/kg	1.623	81.969 mg/kg	0.0082 %	✓	
	056-005-00-3	237-222-4	13701-59-2							
4	boron { boric acid; [1] boric acid [2] }			11	0.45 mg/kg	5.719	2.406 mg/kg	0.000241 %	✓	
	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]							
5	cadmium { cadmium sulfate }				0.41 mg/kg	1.855	0.711 mg/kg	0.0000711 %	✓	
	048-009-00-9	233-331-6	10124-36-4							
6	chromium in Cr(III) compounds { chromium(III) oxide }				25 mg/kg	1.462	34.164 mg/kg	0.00342 %	✓	
		215-160-9	1308-38-9							
7	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
8	copper { copper sulphate pentahydrate }				30 mg/kg	3.929	110.21 mg/kg	0.011 %	✓	
	029-023-00-4	231-847-6	7758-99-8							
9	lead { lead chromate }			1	46 mg/kg	1.56	67.088 mg/kg	0.0043 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
10	mercury { mercury dichloride }				0.19 mg/kg	1.353	0.24 mg/kg	0.000024 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
11	molybdenum { molybdenum(VI) oxide }				1.1 mg/kg	1.5	1.543 mg/kg	0.000154 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
12	nickel { nickel dibromate }				43 mg/kg	5.358	215.431 mg/kg	0.0215 %	✓	
	028-053-00-5	238-596-1	14550-87-9							
13	selenium { nickel selenate }				0.53 mg/kg	2.554	1.266 mg/kg	0.000127 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
14	zinc { zinc chromate }				85 mg/kg	2.774	220.475 mg/kg	0.022 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
15	TPH (C6 to C40) petroleum group				5.8 mg/kg		5.423 mg/kg	0.000542 %	✓	
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
17	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
18	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
19	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
20	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<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]								
21	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										
22	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
27	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
29	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
30	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	602-039-00-4	215-648-1	1336-36-3								
39	sulfur { sulfur }				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	016-094-00-1	231-722-6	7704-34-9								
40	coronene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-881-7	191-07-1								
41	monohydric phenols				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
			P1186								
Total:									0.0743 %		

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
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 for cumulative determinand results below the concentration of: 10000 mg/kg (1%)
because: The soil had no liquid phase or liquid film meaning that the soil will not be flammable with TPH below 10,000 mg/kg

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00054%)

WAC results for sample: 26/03/7559-2105728-

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "Ireland"

The WAC used in this report are the WAC defined for the inert and non-hazardous classes of landfill in the Republic of Ireland. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample **PASSES** the Inert (Inert waste landfill) criteria.

The sample **PASSES** the Non Haz (Non hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits	
#	Determinand Header		User entered data	Inert waste landfill	Non hazardous waste landfill
1	TOC (total organic carbon)	%	0.64	3	-
2	LOI (loss on ignition)	%	1	-	-
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.05	1	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<0.05	100	-
7	pH	pH	8.7	-	-
8	ANC (acid neutralisation capacity)	mol/kg	0.029	-	-
Eluate Analysis 10:1					
9	arsenic	mg/kg	0.02	0.5	2
10	barium	mg/kg	0.097	20	100
11	cadmium	mg/kg	<0.0011	0.04	1
12	chromium	mg/kg	<0.005	0.5	10
13	copper	mg/kg	0.014	2	50
14	mercury	mg/kg	<0.0005	0.01	0.2
15	molybdenum	mg/kg	0.067	0.5	10
16	nickel	mg/kg	<0.005	0.4	10
17	lead	mg/kg	<0.005	0.5	10
18	antimony	mg/kg	0.0073	0.06	0.7
19	selenium	mg/kg	<0.005	0.1	0.5
20	zinc	mg/kg	0.051	4	50
21	chloride	mg/kg	<10	800	15000
22	fluoride	mg/kg	1.1	10	150
23	sulphate	mg/kg	40	1000	20000
24	phenol index	mg/kg	<0.3	1	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800
26	TDS (total dissolved solids)	mg/kg	560	4000	60000

Key

User supplied data

Appendix A: Classifier defined and non EU CLP determinands

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

Description/Comments: Data from ECHA's C&L inventory database
Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>
Data source date: 30 Apr 2020
Hazard Statements: Acute Tox. 4; H302 , Skin Sens. 1; H317 , Eye Irrit. 2; H319

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

Description/Comments: Unknown Oil

Hazard statements taken from WM3 1st Edition 2015
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)

EU CLP index number: 601-023-00-4
Description/Comments:
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

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

EU CLP index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
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

• **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

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

EU 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.
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

■ **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

■ **monohydric phenols** (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)
Data source: CLP combined data
Data source date: 26 Mar 2019
Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 <= conc. < 3 % , Eye Irrit. 2; H319 1 <= conc. < 3 % , Aquatic Chronic 2; H411

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

Worst case CLP species based on hazard statements/molecular weight and conversion factor for arsenic acid H3AsO4. (edit as required)

barium {barium diboron tetraoxide}

There was no Chromium VI detected in the sample.

boron {boric acid; [1] boric acid [2]}

Reasonable worst case CLP species based on hazard statements/molecular weight and assuming water is or has been present. (edit as required)

cadmium {cadmium sulfate}

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

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

There was no Chromium VI detected in the sample.

chromium in Cr(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

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

copper {copper sulphate pentahydrate}

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

lead {lead chromate}

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

mercury {mercury dichloride}

Reasonable worst case CLP species based on hazard statements/molecular weight and assuming no evidence for the use of explosives. (edit as required)

molybdenum {molybdenum(VI) oxide}

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

nickel {nickel dibromate}

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

selenium {nickel selenate}

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

zinc {zinc chromate}

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

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}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

sulfur {sulfur}

Elemental sulfur

Appendix C: Version

HazWasteOnline Classification Engine: EU WM3 1st Edition v1.1.NI using the EU LoW

HazWasteOnline Classification Engine Version: 2026.83.7020.12656 (25 Mar 2026)

HazWasteOnline Database: 2026.83.7020.12656 (25 Mar 2026)

This classification utilises the following guidance and legislation:

WM3 v1.1.NI - Waste Classification - 1st Edition v1.1.NI - Jan 2021

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 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

17th ATP - Regulation (EU) 2021/849 of 11 March 2021

18th ATP - Regulation (EU) 2022/692 of 16 February 2022

POPs Amendment 2022 - Regulation (EU) 2022/2400 of 23 November 2022

19th ATP - Regulation (EU) 2023/1434 of 25 April 2023

20th ATP - Regulation (EU) 2023/1435 of 2 May 2023

21st ATP - Regulation (EU) 2024/197 of 19 October 2023

22nd ATP - Regulation (EU) 2024/2564 of 19th June 2024

23rd ATP - Regulation (EU) 2025/1222 of 2nd April 2025