

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because WM3 states HP3 flammability does not apply to TPH in soil mixtures. HP7 would be the lowest threshold and applies

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0185%)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
12	phenol	604-001-00-2	203-632-7	108-95-2	0.29 mg/kg		0.29 mg/kg	0.000029 %			
13	* TPH (C6 to C40) petroleum group			TPH	185 mg/kg		185 mg/kg	0.0185 %			
14	* confirm TPH has NOT arisen from diesel or petrol				☒						
15	* chromium in chromium(VI) compounds (chromium(VI) oxide)	024-001-00-0	215-607-8	1333-82-0	<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %			<LOD
16	naphthalene	601-052-00-2	202-049-5	91-20-3	35 mg/kg		35 mg/kg	0.0035 %			
17	* acenaphthylene		205-917-1	208-96-8	0.46 mg/kg		0.46 mg/kg	0.000046 %			
18	* acenaphthene		201-469-6	83-32-9	7.5 mg/kg		7.5 mg/kg	0.00075 %			
19	* fluorene		201-695-5	86-73-7	0.7 mg/kg		0.7 mg/kg	0.00007 %			
20	* phenanthrene		201-581-5	85-01-8	7.5 mg/kg		7.5 mg/kg	0.00075 %			
21	* anthracene		204-371-1	120-12-7	1.55 mg/kg		1.55 mg/kg	0.000155 %			
22	* fluoranthene		205-912-4	206-44-0	9.5 mg/kg		9.5 mg/kg	0.00095 %			
23	* pyrene		204-927-3	129-00-0	9.5 mg/kg		9.5 mg/kg	0.00095 %			
24	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	5 mg/kg		5 mg/kg	0.0005 %			
25	chrysene	601-048-00-0	205-923-4	218-01-9	4.55 mg/kg		4.55 mg/kg	0.000455 %			
26	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	6 mg/kg		6 mg/kg	0.0006 %			
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	2.3 mg/kg		2.3 mg/kg	0.00023 %			
28	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	4.5 mg/kg		4.5 mg/kg	0.00045 %			
29	* indeno[123-cd]pyrene		205-893-2	193-39-5	2.85 mg/kg		2.85 mg/kg	0.000285 %			
30	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.95 mg/kg		0.95 mg/kg	0.000095 %			
31	* benzo[ghi]perylene		205-883-8	191-24-2	2.5 mg/kg		2.5 mg/kg	0.00025 %			
32	benzene	601-020-00-8	200-753-7	71-43-2	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	toluene	601-021-00-3	203-625-9	108-88-3	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
34	* ethylbenzene		202-849-4	100-41-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
35	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]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.142 %		

Classification of sample: Stockpile 9[2]

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

Sample details

Sample Name:	LoW Code:
Stockpile 9[2]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:
(average) m	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content:	
13.75%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 13.75% 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	arsenic { arsenic trioxide }				24 mg/kg	1.32	31.688 mg/kg		0.00317 %		
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	0.31 mg/kg	1.285	0.398 mg/kg		0.000031 %		
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { * chromium(III) oxide (worst case) }				21.5 mg/kg	1.462	31.423 mg/kg		0.00314 %		
		215-160-9	1308-38-9								
4	copper { dicopper oxide; copper (I) oxide }				53 mg/kg	1.126	59.672 mg/kg		0.00597 %		
	029-002-00-X	215-270-7	1317-39-1								
5	lead { * lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	200 mg/kg		200 mg/kg		0.02 %		
	082-001-00-6										
6	mercury { mercury dichloride }				0.26 mg/kg	1.353	0.352 mg/kg		0.0000352 %		
	080-010-00-X	231-299-8	7487-94-7								
7	nickel { nickel dihydroxide }				37 mg/kg	1.579	58.441 mg/kg		0.00584 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.32 mg/kg	1.405	0.45 mg/kg		0.000045 %		
	034-002-00-8										
9	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				170 mg/kg	4.398	747.647 mg/kg		0.0748 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
10	pH				8.9 pH		8.9 pH		8.9 pH		
11	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 }				0.49 mg/kg	1.884	0.923 mg/kg		0.0000923 %		
	006-007-00-5										

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because WM3 states HP3 flammability does not apply to TPH in soil mixtures. HP7 would be the lowest threshold and applies

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0009%)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
12	phenol	604-001-00-2	203-632-7	108-95-2	0.29 mg/kg		0.29 mg/kg	0.000029 %		
13	TPH (C6 to C40) petroleum group		TPH		9 mg/kg		9 mg/kg	0.0009 %		
14	confirm TPH has NOT arisen from diesel or petrol									
15	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
16	naphthalene	601-052-00-2	202-049-5	91-20-3	0.83 mg/kg		0.83 mg/kg	0.000083 %		
17	acenaphthylene		205-917-1	208-96-8	0.22 mg/kg		0.22 mg/kg	0.000022 %		
18	acenaphthene		201-469-6	83-32-9	0.33 mg/kg		0.33 mg/kg	0.000033 %		
19	fluorene		201-695-5	86-73-7	0.32 mg/kg		0.32 mg/kg	0.000032 %		
20	phenanthrene		201-581-5	85-01-8	1.37 mg/kg		1.37 mg/kg	0.000137 %		
21	anthracene		204-371-1	120-12-7	0.29 mg/kg		0.29 mg/kg	0.000029 %		
22	fluoranthene		205-912-4	206-44-0	2.2 mg/kg		2.2 mg/kg	0.00022 %		
23	pyrene		204-927-3	129-00-0	1.87 mg/kg		1.87 mg/kg	0.000187 %		
24	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	1.33 mg/kg		1.33 mg/kg	0.000133 %		
25	chrysene	601-048-00-0	205-923-4	218-01-9	1.37 mg/kg		1.37 mg/kg	0.000137 %		
26	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	2 mg/kg		2 mg/kg	0.0002 %		
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.53 mg/kg		0.53 mg/kg	0.000053 %		
28	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.93 mg/kg		0.93 mg/kg	0.000093 %		
29	indeno[123-cd]pyrene		205-893-2	193-39-5	0.01 mg/kg		0.01 mg/kg	0.000001 %		
30	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.01 mg/kg		0.01 mg/kg	0.000001 %		
31	benzo[ghi]perylene		205-883-8	191-24-2	0.01 mg/kg		0.01 mg/kg	0.000001 %		
32	benzene	601-020-00-8	200-753-7	71-43-2	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
33	toluene	601-021-00-3	203-625-9	108-88-3	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
34	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
35	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]	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.0989 %		

Classification of sample: Stockpile 7[2]

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

Sample details

Sample Name:	LoW Code:
Stockpile 7[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
(average) m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16.67%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 16.67% 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	arsenic { arsenic trioxide }				19.33	mg/kg	1.32	25.522	mg/kg	0.00255 %		
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium sulfide }			1	0.36	mg/kg	1.285	0.463	mg/kg	0.000036 %		
	048-010-00-4	215-147-8	1306-23-6									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18	mg/kg	1.462	26.308	mg/kg	0.00263 %		
		215-160-9	1308-38-9									
4	copper { dicopper oxide; copper (I) oxide }				45.33	mg/kg	1.126	51.037	mg/kg	0.0051 %		
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	111.67	mg/kg		111.67	mg/kg	0.0112 %		
	082-001-00-6											
6	mercury { mercury dichloride }				0.27	mg/kg	1.353	0.365	mg/kg	0.0000365 %		
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel dihydroxide }				35.33	mg/kg	1.579	55.804	mg/kg	0.00558 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.34	mg/kg	1.405	0.478	mg/kg	0.0000478 %		
	034-002-00-8											
9	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				156.67	mg/kg	4.398	689.023	mg/kg	0.0689 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
10	pH				8.93	pH		8.93	pH	8.93 pH		
11	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 }				0.49	mg/kg	1.884	0.923	mg/kg	0.0000923 %		
	006-007-00-5											

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
28	benzo[a]pyrene; benzo[def]chrysene				7.33 mg/kg		7.33 mg/kg	0.000733 %		
	601-032-00-3	200-028-5	50-32-8							
29	indeno[123-cd]pyrene				4.63 mg/kg		4.63 mg/kg	0.000463 %		
		205-893-2	193-39-5							
30	dibenz[a,h]anthracene				1.53 mg/kg		1.53 mg/kg	0.000153 %		
	601-041-00-2	200-181-8	53-70-3							
31	benzo[ghi]perylene				4.17 mg/kg		4.17 mg/kg	0.000417 %		
		205-883-8	191-24-2							
32	benzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
33	toluene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
34	ethylbenzene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
35	xylene				<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]							
Total:								0.335 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Hazardous result
- 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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
3	chromium in chromium(III) compounds (* chromium(III) oxide (worst case))				14	mg/kg	1.462	20.462	mg/kg	0.00205 %		
	0215-160-9		1308-38-9									
4	copper (dicopper oxide; copper (I) oxide)				31	mg/kg	1.126	34.903	mg/kg	0.00349 %		
	029-002-00-X	215-270-7	1317-39-1									
5	lead (* lead compounds with the exception of those specified elsewhere in this Annex (worst case))			1	226.67	mg/kg		226.67	mg/kg	0.0227 %		
	082-001-00-6											
6	mercury (mercury dichloride)				0.5	mg/kg	1.353	0.677	mg/kg	0.0000677 %		
	080-010-00-X	231-299-8	7487-94-7									
7	nickel (nickel dihydroxide)				21	mg/kg	1.579	33.169	mg/kg	0.00332 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
8	selenium (selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex)				0.24	mg/kg	1.405	0.337	mg/kg	0.0000337 %		
	034-002-00-8											
9	zinc (zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2])				160	mg/kg	4.398	703.668	mg/kg	0.0704 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
10	pH				8.8	pH		8.8	pH	8.8 pH		
11	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 %		
	006-007-00-5											
12	phenol				0.35	mg/kg		0.35	mg/kg	0.000035 %		
	604-001-00-2	203-632-7	108-95-2									
13	TPH (C6 to C40) petroleum group				2183.33	mg/kg		2183.33	mg/kg	0.218 %		
14	confirm TPH has NOT arisen from diesel or petrol				☒							
15	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									
16	naphthalene				6.4	mg/kg		6.4	mg/kg	0.00064 %		
	601-052-00-2	202-049-5	91-20-3									
17	acenaphthylene				0.58	mg/kg		0.58	mg/kg	0.000058 %		
		205-917-1	208-96-8									
18	acenaphthene				2.18	mg/kg		2.18	mg/kg	0.000218 %		
		201-469-6	83-32-9									
19	fluorene				2.25	mg/kg		2.25	mg/kg	0.000225 %		
		201-695-5	86-73-7									
20	phenanthrene				15.2	mg/kg		15.2	mg/kg	0.00152 %		
		201-581-5	85-01-8									
21	anthracene				3.23	mg/kg		3.23	mg/kg	0.000323 %		
		204-371-1	120-12-7									
22	fluoranthene				17.13	mg/kg		17.13	mg/kg	0.00171 %		
		205-912-4	206-44-0									
23	pyrene				15.83	mg/kg		15.83	mg/kg	0.00158 %		
		204-927-3	129-00-0									
24	benzo[a]anthracene				8.1	mg/kg		8.1	mg/kg	0.00081 %		
	601-033-00-9	200-280-6	56-55-3									
25	chrysene				8.5	mg/kg		8.5	mg/kg	0.00085 %		
	601-048-00-0	205-923-4	218-01-9									
26	benzo[b]fluoranthene				10.07	mg/kg		10.07	mg/kg	0.00101 %		
	601-034-00-4	205-911-9	205-99-2									
27	benzo[k]fluoranthene				3.7	mg/kg		3.7	mg/kg	0.00037 %		
	601-036-00-5	205-916-6	207-08-9									

Classification of sample: Stockpile 6[2]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name: **Stockpile 6[2]** LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: (average) m Entry: 17 05 03 * (Soil and stones containing hazardous substances)
Moisture content: 17.33%
(no correction)

Hazard properties

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 hazardous because WM3 states HP3 flammability does not apply to TPH in soil mixtures. HP7 would be the lowest threshold and applies

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.218%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.218%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.218%)

Determinands

Moisture content: 17.33% 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	arsenic { arsenic trioxide }				24.33 mg/kg	1.32	32.124 mg/kg	0.00321 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium sulfide }			1	0.2 mg/kg	1.285	0.257 mg/kg	0.00002 %		
	048-010-00-4	215-147-8	1306-23-6							

Waste Classification Report



HDK46-9SB4X-5JVND

Job name

Merthyr Stockpiles6, 7&9 Averages

Description/Comments

Project

Site

Related Documents

#	Name	Description
None		

Waste Stream Template

Idom Core Contaminated Land WM3 waste suite

Classified by

Name: Keith Paramor	Company: Idom Merebrook Ltd	HazWasteOnline™ Training Record:	
Date: 08 Mar 2021 10:00 GMT	Cromford Mills, Mill Lane	Course	Date
Telephone: 01773 829988	Matlock	Hazardous Waste Classification	25 Mar 2015
	DE4 3RQ	Advanced Hazardous Waste Classification	26 Mar 2015

Report

Created by: Keith Paramor
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Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	Stockpile 6[2]	(average)	Hazardous	HP 3(), HP 7, HP 11	2
2	Stockpile 7[2]	(average)	Non Hazardous		5
3	Stockpile 9[2]	(average)	Non Hazardous		8

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lead (lead compounds with the exception of those specified elsewhere in this Annex (worst case))

no chromate detected

mercury (mercury dichloride)

Worst case species based on hazard statements

nickel (nickel dihydroxide)

Worst case species based on hazard statements

selenium (selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex)

(enter justification for selecting this species)

zinc (zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2])

no chromate detected

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)

Worst case species

chromium in chromium(VI) compounds (chromium(VI) oxide)

(enter justification for selecting this species)

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2021.60.4685.9008 (01 Mar 2021)

HazWasteOnline Database: 2021.60.4685.9008 (01 Mar 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

• **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

• **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

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

cadmium {cadmium sulfide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Worst case species based on hazard statements

Appendix A: Classifier defined and non CLP determinands

* 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

* lead compounds with the exception of those specified elsewhere in this Annex (worst case)

CLP index number: 082-001-00-6

Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following CLP protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A

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):

03 Jun 2015 - Carc. 1A H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium

www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

* pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

* 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

* 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

* confirm TPH has NOT arisen from diesel or petrol

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

Hazard Statements: 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

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because WM3 states flammability of TPH in soil mixtures unlikely. HP7 threshold would apply

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 0.00009%)

toluene: (conc.: 0.00009%)

ethylbenzene: (conc.: 0.00009%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.045%)

xylene: (conc.: 0.00009%)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
11	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)				0.49 mg/kg	1.884	0.923 mg/kg	0.0000923 %			
	006-007-00-5										
12	phenol				0.29 mg/kg		0.29 mg/kg	0.000029 %			
	604-001-00-2	203-632-7	108-95-2								
13	TPH (C6 to C40) petroleum group				450 mg/kg		450 mg/kg	0.045 %			
			TPH								
14	confirm TPH has NOT arisen from diesel or petrol				☒						
15	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								
16	naphthalene				4.8 mg/kg		4.8 mg/kg	0.00048 %			
	601-052-00-2	202-049-5	91-20-3								
17	acenaphthylene				0.15 mg/kg		0.15 mg/kg	0.000015 %			
		205-917-1	208-96-8								
18	acenaphthene				1 mg/kg		1 mg/kg	0.0001 %			
		201-469-6	83-32-9								
19	fluorene				1.1 mg/kg		1.1 mg/kg	0.00011 %			
		201-695-5	86-73-7								
20	phenanthrene				9.6 mg/kg		9.6 mg/kg	0.00096 %			
		201-581-5	85-01-8								
21	anthracene				1.6 mg/kg		1.6 mg/kg	0.00016 %			
		204-371-1	120-12-7								
22	fluoranthene				12 mg/kg		12 mg/kg	0.0012 %			
		205-912-4	206-44-0								
23	pyrene				12 mg/kg		12 mg/kg	0.0012 %			
		204-927-3	129-00-0								
24	benzo[a]anthracene				6 mg/kg		6 mg/kg	0.0006 %			
	601-033-00-9	200-280-6	56-55-3								
25	chrysene				5.8 mg/kg		5.8 mg/kg	0.00058 %			
	601-048-00-0	205-923-4	218-01-9								
26	benzo[b]fluoranthene				8.2 mg/kg		8.2 mg/kg	0.00082 %			
	601-034-00-4	205-911-9	205-99-2								
27	benzo[k]fluoranthene				3.1 mg/kg		3.1 mg/kg	0.00031 %			
	601-036-00-5	205-916-6	207-08-9								
28	benzo[a]pyrene; benzo[def]chrysene				6.2 mg/kg		6.2 mg/kg	0.00062 %			
	601-032-00-3	200-028-5	50-32-8								
29	indeno[123-cd]pyrene				0.009 mg/kg		0.009 mg/kg	0.000009 %			
		205-893-2	193-39-5								
30	dibenz[a,h]anthracene				0.009 mg/kg		0.009 mg/kg	0.000009 %			
	601-041-00-2	200-181-8	53-70-3								
31	benzo[ghi]perylene				0.009 mg/kg		0.009 mg/kg	0.000009 %			
		205-883-8	191-24-2								
32	benzene				0.99 mg/kg		0.99 mg/kg	0.000099 %			
	601-020-00-8	200-753-7	71-43-2								
33	toluene				0.99 mg/kg		0.99 mg/kg	0.000099 %			
	601-021-00-3	203-625-9	108-88-3								
34	ethylbenzene				0.99 mg/kg		0.99 mg/kg	0.000099 %			
	601-023-00-4	202-849-4	100-41-4								
35	xylene				0.99 mg/kg		0.99 mg/kg	0.000099 %			
	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]								
Total:									0.142 %		

Classification of sample: Stockpile 10B

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name: **Stockpile 10B**
Sample Depth: **0.8 m**
Moisture content: **36%**
(no correction)

LoW Code:
Chapter: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**
Entry: **17 05 03 * (Soil and stones containing hazardous substances)**

Hazard properties

HP 8: Corrosive "waste which on application can cause skin corrosion"

pH; pH "Assumed to be irritant/corrosive because of pH value"

Because of determinand:

pH: (conc.: 12.1 pH)

Determinands

Moisture content: 36% 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	arsenic { arsenic trioxide }				18	mg/kg	1.32	23.766	mg/kg	0.00238 %		
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium sulfide }			1	0.25	mg/kg	1.285	0.321	mg/kg	0.000025 %		
	048-010-00-4	215-147-8	1306-23-6									
3	chromium in chromium(III) compounds { * chromium(III) oxide (worst case) }				20	mg/kg	1.462	29.231	mg/kg	0.00292 %		
		215-160-9	1308-38-9									
4	copper { dicopper oxide; copper (I) oxide }				24	mg/kg	1.126	27.021	mg/kg	0.0027 %		
	029-002-00-X	215-270-7	1317-39-1									
5	lead { * lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	340	mg/kg		340	mg/kg	0.034 %		
	082-001-00-6											
6	mercury { mercury dichloride }				0.11	mg/kg	1.353	0.149	mg/kg	0.0000149 %		
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel dihydroxide }				17	mg/kg	1.579	26.851	mg/kg	0.00269 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.19	mg/kg	1.405	0.267	mg/kg	0.0000267 %		
	034-002-00-8											
9	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				100	mg/kg	4.398	439.793	mg/kg	0.044 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
10	pH				12.1	pH		12.1	pH	12.1 pH		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because WM3 states flammability of TPH in soil mixtures unlikely. HP7 threshold would apply

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 0.00009%)
toluene: (conc.: 0.00009%)
ethylbenzene: (conc.: 0.00009%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.00099%)
xylene: (conc.: 0.00009%)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
12	phenol	604-001-00-2	203-632-7	108-95-2	0.29 mg/kg		0.29 mg/kg	0.000029 %		
13	TPH (C6 to C40) petroleum group			TPH	9.99 mg/kg		9.99 mg/kg	0.000999 %		
14	confirm TPH has NOT arisen from diesel or petrol				☒					
15	chromium in chromium(VI) compounds (chromium(VI) oxide)	024-001-00-0	215-607-8	1333-82-0	<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
16	naphthalene	601-052-00-2	202-049-5	91-20-3	0.009 mg/kg		0.009 mg/kg	0.000009 %		
17	acenaphthylene		205-917-1	208-96-8	0.009 mg/kg		0.009 mg/kg	0.000009 %		
18	acenaphthene		201-469-6	93-32-9	0.009 mg/kg		0.009 mg/kg	0.000009 %		
19	fluorene		201-695-5	86-73-7	0.009 mg/kg		0.009 mg/kg	0.000009 %		
20	phenanthrene		201-581-5	85-01-8	0.009 mg/kg		0.009 mg/kg	0.000009 %		
21	anthracene		204-371-1	120-12-7	0.009 mg/kg		0.009 mg/kg	0.000009 %		
22	fluoranthene		205-912-4	206-44-0	0.009 mg/kg		0.009 mg/kg	0.000009 %		
23	pyrene		204-927-3	129-00-0	0.009 mg/kg		0.009 mg/kg	0.000009 %		
24	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.009 mg/kg		0.009 mg/kg	0.000009 %		
25	chrysene	601-048-00-0	205-923-4	218-01-9	0.009 mg/kg		0.009 mg/kg	0.000009 %		
26	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.009 mg/kg		0.009 mg/kg	0.000009 %		
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.009 mg/kg		0.009 mg/kg	0.000009 %		
28	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.009 mg/kg		0.009 mg/kg	0.000009 %		
29	indeno[1,2,3-cd]pyrene		205-893-2	193-39-5	0.009 mg/kg		0.009 mg/kg	0.000009 %		
30	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.009 mg/kg		0.009 mg/kg	0.000009 %		
31	benzo[ghi]perylene		205-883-8	191-24-2	0.009 mg/kg		0.009 mg/kg	0.000009 %		
32	benzene	601-020-00-8	200-753-7	71-43-2	0.99 mg/kg		0.99 mg/kg	0.000099 %		
33	toluene	601-021-00-3	203-625-9	108-88-3	0.99 mg/kg		0.99 mg/kg	0.000099 %		
34	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.99 mg/kg		0.99 mg/kg	0.000099 %		
35	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]	0.99 mg/kg		0.99 mg/kg	0.000099 %		
Total:								0.0724 %		

Classification of sample: Stockpile 9B

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

Sample details

Sample Name:	LoW Code:
Stockpile 9B	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)
1.8 m	
Moisture content:	
9.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.5% 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	arsenic (arsenic trioxide)				17 mg/kg	1.32	22.446 mg/kg		0.00224 %		
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium (cadmium sulfide)			1	0.17 mg/kg	1.285	0.218 mg/kg		0.000017 %		
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds (* chromium(III) oxide (worst case))				23 mg/kg	1.462	33.616 mg/kg		0.00336 %		
		215-160-9	1308-38-9								
4	copper (dicopper oxide; copper (I) oxide)				56 mg/kg	1.126	63.05 mg/kg		0.0063 %		
	029-002-00-X	215-270-7	1317-39-1								
5	lead (* lead compounds with the exception of those specified elsewhere in this Annex (worst case))			1	30 mg/kg		30 mg/kg		0.003 %		
	082-001-00-6										
6	mercury (mercury dichloride)				0.0049 mg/kg	1.353	0.0066 mg/kg		0.00000663 %		
	080-010-00-X	231-299-8	7487-94-7								
7	nickel (nickel dihydroxide)				47 mg/kg	1.579	74.236 mg/kg		0.00742 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
8	selenium (selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex)				0.45 mg/kg	1.405	0.632 mg/kg		0.0000632 %		
	034-002-00-8										
9	zinc (zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2])				110 mg/kg	4.398	483.772 mg/kg		0.0484 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
10	pH				8.1 pH		8.1 pH		8.1 pH		
11	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)				0.49 mg/kg	1.884	0.923 mg/kg		0.0000923 %		
	006-007-00-5										

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because WM3 states flammability of TPH in soil mixtures unlikely. HP7 threshold would apply

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 0.00009%)
toluene: (conc.: 0.00009%)
ethylbenzene: (conc.: 0.00009%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.036%)
xylene: (conc.: 0.00009%)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
12	phenol				0.29 mg/kg		0.29 mg/kg	0.000029 %		
	604-001-00-2	203-632-7	108-95-2							
13	TPH (C6 to C40) petroleum group				360 mg/kg		360 mg/kg	0.036 %		
			TPH							
14	confirm TPH has NOT arisen from diesel or petrol				☒					
15	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							
16	naphthalene				70 mg/kg		70 mg/kg	0.007 %		
	601-052-00-2	202-049-5	91-20-3							
17	acenaphthylene				0.92 mg/kg		0.92 mg/kg	0.000092 %		
		205-917-1	208-96-8							
18	acenaphthene				15 mg/kg		15 mg/kg	0.0015 %		
		201-469-6	83-32-9							
19	fluorene				1.4 mg/kg		1.4 mg/kg	0.00014 %		
		201-695-5	86-73-7							
20	phenanthrene				15 mg/kg		15 mg/kg	0.0015 %		
		201-581-5	85-01-8							
21	anthracene				3.1 mg/kg		3.1 mg/kg	0.00031 %		
		204-371-1	120-12-7							
22	fluoranthene				19 mg/kg		19 mg/kg	0.0019 %		
		205-912-4	206-44-0							
23	pyrene				19 mg/kg		19 mg/kg	0.0019 %		
		204-927-3	129-00-0							
24	benzo[a]anthracene				10 mg/kg		10 mg/kg	0.001 %		
	601-033-00-9	200-280-6	56-55-3							
25	chrysene				9.1 mg/kg		9.1 mg/kg	0.00091 %		
	601-048-00-0	205-923-4	218-01-9							
26	benzo[b]fluoranthene				12 mg/kg		12 mg/kg	0.0012 %		
	601-034-00-4	205-911-9	205-99-2							
27	benzo[k]fluoranthene				4.6 mg/kg		4.6 mg/kg	0.00046 %		
	601-036-00-5	205-916-6	207-08-9							
28	benzo[a]pyrene; benzo[def]chrysene				9 mg/kg		9 mg/kg	0.0009 %		
	601-032-00-3	200-028-5	50-32-8							
29	indeno[123-cd]pyrene				5.7 mg/kg		5.7 mg/kg	0.00057 %		
		205-893-2	193-39-5							
30	dibenz[a,h]anthracene				1.9 mg/kg		1.9 mg/kg	0.00019 %		
	601-041-00-2	200-181-8	53-70-3							
31	benzo[ghi]perylene				5 mg/kg		5 mg/kg	0.0005 %		
		205-883-8	191-24-2							
32	benzene				0.99 mg/kg		0.99 mg/kg	0.000099 %		
	601-020-00-8	200-753-7	71-43-2							
33	toluene				0.99 mg/kg		0.99 mg/kg	0.000099 %		
	601-021-00-3	203-625-9	108-88-3							
34	ethylbenzene				0.99 mg/kg		0.99 mg/kg	0.000099 %		
	601-023-00-4	202-849-4	100-41-4							
35	xylene				0.99 mg/kg		0.99 mg/kg	0.000099 %		
	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]							
Total:								0.212 %		

Classification of sample: Stockpile 9A

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

Sample details

Sample Name: Stockpile 9A	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 18% (no correction)		

Hazard properties

None identified

Determinands

Moisture content: 18% 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	arsenic { arsenic trioxide }				31	mg/kg	1.32	40.93	mg/kg	0.00409 %		
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium sulfide }			1	0.44	mg/kg	1.285	0.566	mg/kg	0.000044 %		
	048-010-00-4	215-147-8	1306-23-6									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				20	mg/kg	1.462	29.231	mg/kg	0.00292 %		
		215-160-9	1308-38-9									
4	copper { dicopper oxide; copper (I) oxide }				50	mg/kg	1.126	56.294	mg/kg	0.00563 %		
	029-002-00-X	215-270-7	1317-39-1									
5	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	370	mg/kg		370	mg/kg	0.037 %		
	082-001-00-6											
6	mercury { mercury dichloride }				0.51	mg/kg	1.353	0.69	mg/kg	0.000069 %		
	080-010-00-X	231-299-8	7487-94-7									
7	nickel { nickel dihydroxide }				27	mg/kg	1.579	42.646	mg/kg	0.00426 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
8	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				0.19	mg/kg	1.405	0.267	mg/kg	0.0000267 %		
	034-002-00-8											
9	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				230	mg/kg	4.398	1011.523	mg/kg	0.101 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
10	pH				9.7	pH		9.7	pH	9.7 pH		
11	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 }				0.49	mg/kg	1.884	0.923	mg/kg	0.0000923 %		
	006-007-00-5											

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because WM3 states flammability of TPH in soil mixtures unlikely. HP7 threshold would apply

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 0.00009%)
toluene: (conc.: 0.00009%)
ethylbenzene: (conc.: 0.00009%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0009%)
xylene: (conc.: 0.00009%)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
12	phenol				0.29 mg/kg		0.29 mg/kg	0.000029 %		
	604-001-00-2	203-632-7	108-95-2							
13	TPH (C6 to C40) petroleum group				9 mg/kg		9 mg/kg	0.0009 %		
			TPH							
14	confirm TPH has NOT arisen from diesel or petrol				☒					
15	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							
16	naphthalene				0.28 mg/kg		0.28 mg/kg	0.000028 %		
	601-052-00-2	202-049-5	91-20-3							
17	acenaphthylene				0.32 mg/kg		0.32 mg/kg	0.000032 %		
		205-917-1	208-96-8							
18	acenaphthene				0.16 mg/kg		0.16 mg/kg	0.000016 %		
		201-469-6	83-32-9							
19	fluorene				0.16 mg/kg		0.16 mg/kg	0.000016 %		
		201-695-5	86-73-7							
20	phenanthrene				1.7 mg/kg		1.7 mg/kg	0.00017 %		
		201-581-5	85-01-8							
21	anthracene				0.35 mg/kg		0.35 mg/kg	0.000035 %		
		204-371-1	120-12-7							
22	fluoranthene				2.4 mg/kg		2.4 mg/kg	0.00024 %		
		205-912-4	206-44-0							
23	pyrene				1.7 mg/kg		1.7 mg/kg	0.00017 %		
		204-927-3	129-00-0							
24	benzo[a]anthracene				1.4 mg/kg		1.4 mg/kg	0.00014 %		
	601-033-00-9	200-280-6	56-55-3							
25	chrysene				1.4 mg/kg		1.4 mg/kg	0.00014 %		
	601-048-00-0	205-923-4	218-01-9							
26	benzo[b]fluoranthene				2.3 mg/kg		2.3 mg/kg	0.00023 %		
	601-034-00-4	205-911-9	205-99-2							
27	benzo[k]fluoranthene				0.61 mg/kg		0.61 mg/kg	0.000061 %		
	601-036-00-5	205-916-6	207-08-9							
28	benzo[a]pyrene; benzo[def]chrysene				1.1 mg/kg		1.1 mg/kg	0.00011 %		
	601-032-00-3	200-028-5	50-32-8							
29	indeno[123-cd]pyrene				0.009 mg/kg		0.009 mg/kg	0.000009 %		
		205-893-2	193-39-5							
30	dibenz[a,h]anthracene				0.009 mg/kg		0.009 mg/kg	0.000009 %		
	601-041-00-2	200-181-8	53-70-3							
31	benzo[ghi]perylene				0.009 mg/kg		0.009 mg/kg	0.000009 %		
		205-883-8	191-24-2							
32	benzene				0.99 mg/kg		0.99 mg/kg	0.000099 %		
	601-020-00-8	200-753-7	71-43-2							
33	toluene				0.99 mg/kg		0.99 mg/kg	0.000099 %		
	601-021-00-3	203-625-9	108-88-3							
34	ethylbenzene				0.99 mg/kg		0.99 mg/kg	0.000099 %		
	601-023-00-4	202-849-4	100-41-4							
35	xylene				0.99 mg/kg		0.99 mg/kg	0.000099 %		
	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]							
Total:								0.134 %		

Classification of sample: Stockpile 7C

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

Sample details

Sample Name:	LoW Code:	
Stockpile 7C	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)
1.7 m		
Moisture content:		
18%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 18% 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	arsenic (arsenic trioxide)				24 mg/kg	1.32	31.688 mg/kg	0.00317 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium (cadmium sulfide)			1	0.51 mg/kg	1.285	0.655 mg/kg	0.000051 %		
	048-010-00-4	215-147-8	1306-23-6							
3	chromium in chromium(III) compounds (* chromium(III) oxide (worst case))				22 mg/kg	1.462	32.154 mg/kg	0.00322 %		
		215-160-9	1308-38-9							
4	copper (dicopper oxide; copper (I) oxide)				62 mg/kg	1.126	69.805 mg/kg	0.00698 %		
	029-002-00-X	215-270-7	1317-39-1							
5	lead (* lead compounds with the exception of those specified elsewhere in this Annex (worst case))			1	160 mg/kg		160 mg/kg	0.016 %		
	082-001-00-6									
6	mercury (mercury dichloride)				0.3 mg/kg	1.353	0.406 mg/kg	0.0000406 %		
	080-010-00-X	231-299-8	7487-94-7							
7	nickel (nickel dihydroxide)				31 mg/kg	1.579	48.964 mg/kg	0.0049 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
8	selenium (selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex)				0.3 mg/kg	1.405	0.422 mg/kg	0.0000422 %		
	034-002-00-8									
9	zinc (zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2])				220 mg/kg	4.398	967.544 mg/kg	0.0968 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
10	pH				9.4 pH		9.4 pH	9.4 pH		
11	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)				0.49 mg/kg	1.884	0.923 mg/kg	0.0000923 %		
	006-007-00-5									

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because WM3 states flammability of TPH in soil mixtures unlikely. HP7 threshold would apply

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 0.00009%)
toluene: (conc.: 0.00009%)
ethylbenzene: (conc.: 0.00009%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0009%)
xylene: (conc.: 0.00009%)