

Classification of sample: TP01

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

Sample details

Sample Name: LoW Code:
TP01 Chapter:
Sample Depth:
0,1 m Entry:

0.1 m Entry: Moisture content:

24% (no correction)

17: Construction and Demolition Wastes (including excavated soil from contaminated sites)

17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#		Determinand CLP index number	CLP Note	User entered o	lata	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		acenaphthene 201-469-6 83-32-9		<0.05 r	ng/kg		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
2	0	acenaphthylene 205-917-1 208-96-8		<0.05 r	ng/kg		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
3	0	anthracene 204-371-1 120-12-7		<0.05 r	ng/kg		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
4	-	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3		19 r	ng/kg	1.32	25.086 mg/kg	0.00251 %		
5		benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3		<0.05 r	ng/kg		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
6		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8		<0.05 r	ng/kg		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
7		benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2		<0.05 r	ng/kg		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
8	0	benzo[ghi]perylene		<0.05 r	ng/kg		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
9		benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9		<0.05 r	ng/kg		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
10		beryllium { beryllium oxide } 004-003-00-8		1.2 r	ng/kg	2.775	3.33 mg/kg	0.000333 %		
11	≪	boron {		2.2 r	ng/kg	13.43	29.546 mg/kg	0.00295 %		
12	-	cadmium { cadmium sulfide } 048-010-00-4	1	0.5 r	ng/kg	1.285	0.643 mg/kg	0.00005 %		
13	4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		30 r	ng/kg	1.462	43.847 mg/kg	0.00438 %		



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#			Determinand		ote	User entere	d data	Conv.	Compound cor	nc	Classification	Applied	Conc. Not
"		CLP index numbe	r EC Number	CAS Number	CLP Note	Oser entere	u uata	Factor	Compound con		value	MC Ap	Used
	4		mium(VI) compound		迃							Ž	
14	4	oxide }	mam(vi) compound	as (Chromiain(VI)	1	<1.2	mg/kg	1.923	<2.308 n	ng/kg	<0.000231 %		<lod< td=""></lod<>
		024-001-00-0	215-607-8	1333-82-0	1_								
15		chrysene				<0.05	mg/kg		<0.05 n	ng/kg	<0.000005 %		<lod< td=""></lod<>
		601-048-00-0	205-923-4	218-01-9	+								
16	e Ç		oxide; copper (I) ox	•	_	15	mg/kg	1.126	16.888 n	ng/kg	0.00169 %		
		029-002-00-X	215-270-7	1317-39-1	╁								
	4		s of hydrogen cyani olex cyanides such										
17			mercuric oxycyanid			<1	mg/kg	1.884	<1.884 n	ng/kg	<0.000188 %		<lod< td=""></lod<>
		specified elsewhe	re in this Annex }										
_		006-007-00-5			+								
18		dibenz[a,h]anthra 601-041-00-2	cene 200-181-8	53-70-3	_	<0.05	mg/kg		<0.05 n	ng/kg	<0.000005 %		<lod< td=""></lod<>
_	_	fluoranthene	200-101-0	03-70-3	+								
19	9	nacranarono	205-912-4	206-44-0	-	<0.05	mg/kg		<0.05 n	ng/kg	<0.000005 %		<lod< td=""></lod<>
20	0	fluorene	,	,	\top	<0.05	malka		<0.05 n	ma/ka	<0.000005 %		<lod< td=""></lod<>
20			201-695-5	86-73-7		<0.05	mg/kg		~ 0.05 II	ng/kg	<0.000005 %		\LOD
21	0	indeno[123-cd]py	rene			<0.05	mg/kg		<0.05 n	na/ka	<0.000005 %		<lod< td=""></lod<>
			205-893-2	193-39-5	_					3 3			
	e Ç		pounds with the ex	ception of those	1	00					0.0000.0/		
22		specified elsewhe	re in this Annex }		- '	22	mg/kg		22 n	ng/kg	0.0022 %		
_		082-001-00-6 mercury { mercur	v dichloride }		+								
23	4	080-010-00-X	231-299-8	7487-94-7	\dashv	<0.3	mg/kg	1.353	<0.406 n	ng/kg	<0.0000406 %		<lod< td=""></lod<>
24		naphthalene		(+	-0.05			*O OF		*O 00000F 0/		4.00
24		601-052-00-2	202-049-5	91-20-3	-	<0.05	mg/kg		<0.05 n	ng/kg	<0.000005 %		<lod< td=""></lod<>
	4	nickel { <mark>nickel dihy</mark>											
25		028-008-00-X	235-008-5 [1]	12054-48-7 [1]		26	mg/kg	1.579	41.067 n	ng/kg	0.00411 %		
_	_	pH	234-348-1 [2]	11113-74-9 [2]	+								
26	0	Pi i		PH	-	7.9	рН		7.9 p	H	7.9 pH		
27	0	phenanthrene	1	1	\top	-0.05	100 m // · · ·		<0.0E	// c	<0.00000E 0/		-1 OD
			201-581-5	85-01-8		<0.05	mg/kg		<0.05 n	ng/kg	<0.000005 %		<lod< td=""></lod<>
28		phenol				<1	mg/kg		<1 n	ng/ka	<0.0001 %		<lod< td=""></lod<>
L		604-001-00-2	203-632-7	108-95-2	1_	·							
29	0	pyrene	1004 007 0	400.00		<0.05	mg/kg		<0.05 n	ng/kg	<0.000005 %		<lod< td=""></lod<>
-	-	mino (mino ovid -)	204-927-3	129-00-0	+								
30		zinc { <mark>zinc oxide</mark> } 030-013-00-7	215-222-5	1314-13-2	-	56	mg/kg	1.245	69.704 n	ng/kg	0.00697 %		
		000-010-00-7	K 10-222-0	(1017-10-2					<u> </u>	Total:	0.0258 %		
Щ													

Key

User supplied data

Determinand values ignored for classification, see column 'Conc. Not Used' for reason

Determinand defined or amended by HazWasteOnline (see Appendix A)

Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration

<LOD Below limit of detection

ND Not detected

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



Classification of sample: TP06

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

Sample details

Sample Name:

TP06 Chapter:
Sample Depth:

0.1 m Entry:
Moisture content:

17: Construction and Demolition Wastes (including excavated soil from contaminated sites)17 05 04 (Soil and stones other than those mentioned in 17 05

17 05 04 (Soil and stones other than those mentioned in 17 09 03)

Hazard properties

None identified

(no correction)

19%

Determinands

Moisture content: 19% No Moisture Correction applied (MC)

#		Determinand CLP index number	CLP Note	User entered data	Conv. Factor		Classification value	Conc. Not
1	0	acenaphthene 201-469-6 83-32-9		<0.05 mg/k	g	<0.05 mg/kg	<0.000005 %	<lod< th=""></lod<>
2	0	acenaphthylene 205-917-1 208-96-8		<0.05 mg/k	g	<0.05 mg/kg	<0.000005 %	<lod< th=""></lod<>
3	0	anthracene 204-371-1 120-12-7		<0.05 mg/k	g	<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
4	4	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3		17 mg/k	g 1.32	22.446 mg/kg	0.00224 %	
5		benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3		<0.05 mg/k	g	<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
6		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8		<0.05 mg/k	g	<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
7		benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2		<0.05 mg/k	g	<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
8	0	benzo[ghi]perylene 205-883-8 191-24-2		<0.05 mg/k	g	<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
9		benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9		<0.05 mg/k	g	<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
10	æ	beryllium { beryllium oxide } 004-003-00-8 215-133-1 1304-56-9		1.2 mg/k	g 2.775	3.33 mg/kg	0.000333 %	
11	≪	boron { boron tribromide/trichloride/trifluoride (combined) }		1.6 mg/k	g 13.43	21.488 mg/kg	0.00215 %	
12	4	cadmium { cadmium sulfide } 048-010-00-4 215-147-8 1306-23-6	1	<0.2 mg/k	g 1.285	<0.257 mg/kg	<0.00002 %	<lod< td=""></lod<>
13	4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9		29 mg/k	g 1.462	42.385 mg/kg	0.00424 %	





#		Determinand CLP index number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound c	onc.	Classification value	MC Applied	Conc. Not Used
14	4	chromium in chromium(VI) compounds oxide } 024-001-00-0 215-607-8	{ chromium(VI)		<1.2 mg/l	kg 1	1.923	<2.308	mg/kg	<0.000231 %		<lod< th=""></lod<>
15		chrysene 601-048-00-0 205-923-4	218-01-9		<0.05 mg/l	kg		<0.05	mg/kg	<0.000005 %		<lod< th=""></lod<>
16	•	copper { dicopper oxide; copper (I) oxid 029-002-00-X	le } 1317-39-1		16 mg/l	kg 1	1.126	18.014	mg/kg	0.0018 %		
17	4	cyanides { salts of hydrogen cyanide exception of complex cyanides such as ferricyanides and mercuric oxycyanide specified elsewhere in this Annex }	ferrocyanides,		<1 mg/l	kg 1	1.884	<1.884	mg/kg	<0.000188 %		<lod< th=""></lod<>
18		dibenz[a,h]anthracene	53-70-3		<0.05 mg/l	kg		<0.05	mg/kg	<0.000005 %		<lod< td=""></lod<>
19	0	fluoranthene 205-912-4	206-44-0		<0.05 mg/l	kg		<0.05	mg/kg	<0.000005 %		<lod< td=""></lod<>
20	0	fluorene 201-695-5	86-73-7		<0.05 mg/l	kg		<0.05	mg/kg	<0.000005 %		<lod< td=""></lod<>
21	0	indeno[123-cd]pyrene 205-893-2	193-39-5		<0.05 mg/l	kg		<0.05	mg/kg	<0.000005 %		<lod< td=""></lod<>
22	4	lead { • lead compounds with the excesspecified elsewhere in this Annex }	eption of those	1	20 mg/l	kg		20	mg/kg	0.002 %		
23	ď,	mercury { mercury dichloride }	7487-94-7		<0.3 mg/l	kg 1	1.353	<0.406	mg/kg	<0.0000406 %		<lod< td=""></lod<>
24		naphthalene 601-052-00-2 202-049-5	91-20-3		<0.05 mg/l	kg		<0.05	mg/kg	<0.000005 %		<lod< td=""></lod<>
25	•		12054-48-7 [1] 11113-74-9 [2]		23 mg/l	kg 1	1.579	36.328	mg/kg	0.00363 %		
26		pH	PH		7.9 pH			7.9	рН	7.9 pH		
27	0	phenanthrene 201-581-5	85-01-8		<0.05 mg/l	kg		<0.05	mg/kg	<0.000005 %		<lod< td=""></lod<>
28		phenol 604-001-00-2 203-632-7	108-95-2		<1 mg/l	kg		<1	mg/kg	<0.0001 %		<lod< td=""></lod<>
29	0	pyrene 204-927-3	129-00-0		<0.05 mg/l	kg		<0.05	mg/kg	<0.000005 %		<lod< td=""></lod<>
30	-	zinc { zinc oxide } 030-013-00-7 215-222-5	1314-13-2		59 mg/l	kg 1	1.245	73.438	mg/kg	0.00734 %		
							,		Total:	0.0244 %		

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

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Classification of sample: TP08

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

Sample details

Sample Name: LoW Code: TP08 Chapter: Sample Depth: 0.2 m Entry: Moisture content:

from contaminated sites) 17 05 04 (Soil and stones other than those mentioned in 17 05

17: Construction and Demolition Wastes (including excavated soil

(no correction)

Hazard properties

None identified

20%

Determinands

Moisture content: 20% No Moisture Correction applied (MC)

#		Determinand CLP index number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification - value	Conc. Not
1	0	acenaphthene 201-469-6 83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
2	0	acenaphthylene 205-917-1 208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
3	0	anthracene 204-371-1 120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
4	æ	arsenic { arsenic trioxide } 033-003-00-0		21 mg/kg	1.32	27.727 mg/kg	0.00277 %	
5		benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
6		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
7		benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
8	0	benzo[ghi]perylene		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
9		benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %	<lod< td=""></lod<>
10	æ\$			1.4 mg/kg	2.775	3.885 mg/kg	0.000389 %	
11	4	boron { boron tribromide/trichloride/trifluoride (combined) } 10294-33-4,		1.4 mg/kg	13.43	18.802 mg/kg	0.00188 %	
12	æ	cadmium { cadmium sulfide } 048-010-00-4	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %	<lod< td=""></lod<>
13	4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		34 mg/kg	1.462	49.693 mg/kg	0.00497 %	



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#		Determ	ninand		Note	User entere	d data	Conv.	Compound of	onc.	Classification	Applied	Conc. Not
		CLP index number	umber	CAS Number	CLPN			Factor	, -		value	MC A	Used
	e C	chromium in chromium(VI) co	mpounds	{ chromium(VI)	Ĭ								
14		oxide }		4000 00 0	_	<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<lod< td=""></lod<>
	-	024-001-00-0 215-607-8 chrysene	3	1333-82-0	+								
15		601-048-00-0 205-923-4		218-01-9	-	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<lod< th=""></lod<>
16	\vdash	copper { dicopper oxide; copp			T	21	ma/ka	1 126	22 644	ma/ka	0.00226.0/		
16	•	029-002-00-X 215-270-7	·	1317-39-1	1	21	mg/kg	1.126	23.644	mg/kg	0.00236 %		
17	₽	cyanides { salts of hydroge exception of complex cyanide ferricyanides and mercuric ox specified elsewhere in this Ar 006-007-00-5	es such as cycyanide	ferrocyanides,		<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<lod< th=""></lod<>
18		dibenz[a,h]anthracene			1	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<lod< td=""></lod<>
		601-041-00-2 200-181-8	3	53-70-3	1	0.00			0.00	mg/ng			
19	0	fluoranthene		(000 44 0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<lod< td=""></lod<>
		205-912-4 fluorene		206-44-0	╁								
20	0	201-695-5	5	86-73-7	-	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<lod< td=""></lod<>
21	0	indeno[123-cd]pyrene			†	<0.0F	20 m/lem		<0.0F	20 m/l cm	<0.00000E 9/		<lod< td=""></lod<>
21		205-893-2	2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<lod< td=""></lod<>
22		lead {	h the exce	eption of those	1	25	mg/kg		25	mg/kg	0.0025 %		
		mercury { mercury dichloride	1		+								
23	•	080-010-00-X 231-299-8	•	7487-94-7	-	<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<lod< td=""></lod<>
24		naphthalene				<0.05	ma/ka		<0.05	ma/ka	<0.000005 %		<lod< th=""></lod<>
24		601-052-00-2 202-049-5	5	91-20-3		\0.03	mg/kg		~ 0.03	mg/kg	~0.000003 <i>/</i> ₈		\LOD
0.5	e Ç	nickel { nickel dihydroxide }				20		4 570	45.005	//	0.00450.0/		
25		028-008-00-X 235-008-5 234-348-1		12054-48-7 [1] 11113-74-9 [2]		29	mg/kg	1.579	45.805	mg/kg	0.00458 %		
26	0	рН		lou i		8.1	рН		8.1	рН	8.1 pH		
		phenanthrene		PH	+								
27	9	201-581-5	j	85-01-8	-	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<lod< td=""></lod<>
28	П	phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<lod< th=""></lod<>
	Щ	604-001-00-2 203-632-7	,	108-95-2	1		J 0			J 3			
29	0	pyrene	,	120.00.0	-	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<lod< th=""></lod<>
		zinc { zinc oxide })	129-00-0	+								
30		030-013-00-7 215-222-5	5	1314-13-2	-	68	mg/kg	1.245	84.641	mg/kg	0.00846 %		
										Total:	0.0286 %	\top	

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n	U	y

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

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Classification of sample: TP17

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

Sample details

Sample Name: LoW Code:
TP17 Chapter:
Sample Depth:

0.3 m Entry:
Moisture content:

21% (no correction) 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)

17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% No Moisture Correction applied (MC)

#		Determinand CLP index number	CLP Note	User entered data	Cor Fac		Compound conc.	Classification value	MC Applied	Conc. Not Used
1		acenaphthene 201-469-6 83-32-9		<0.05 mg/k	g		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
2	0	acenaphthylene 205-917-1 208-96-8		<0.05 mg/k	g		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
3	0	anthracene 204-371-1 120-12-7		<0.05 mg/k	g		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
4	-	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3		20 mg/k	g 1.3	32	26.407 mg/kg	0.00264 %		
5		benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3		<0.05 mg/k	g		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
6		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8		<0.05 mg/k	g		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
7		benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2		<0.05 mg/k	g		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
8	0	benzo[ghi]perylene		<0.05 mg/k	g		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
9		benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9		<0.05 mg/k	g		<0.05 mg/kg	<0.000005 %		<lod< td=""></lod<>
10	4	beryllium { beryllium oxide } 004-003-00-8 215-133-1 1304-56-9		1.3 mg/k	g 2.7	775	3.608 mg/kg	0.000361 %		
11	₫,	boron {		1.6 mg/k	g 13.	.43	21.488 mg/kg	0.00215 %		
12	4	cadmium { cadmium sulfide } 048-010-00-4	1	<0.2 mg/k	g 1.2	285	<0.257 mg/kg	<0.00002 %		<lod< td=""></lod<>
13	4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		33 mg/k	g 1.4	162	48.231 mg/kg	0.00482 %		





	_				_						_	
#			erminand Number	CAS Number	CLP Note	User entered	d data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
14	~	chromium in chromium(VI) oxide } 024-001-00-0 215-60	· ·	{ chromium(VI)		<1.2	mg/kg	1.923	<2.308 mg/l	rg <0.000231 %		<lod< td=""></lod<>
15		chrysene 601-048-00-0 205-923	3-4	218-01-9	-	<0.05	mg/kg		<0.05 mg/l	g <0.000005 %		<lod< td=""></lod<>
16	a Ç	copper { dicopper oxide; co	opper (I) oxic			18	mg/kg	1.126	20.266 mg/	g 0.00203 %		
17	4	cyanides { salts of hydroexception of complex cyan ferricyanides and mercuric specified elsewhere in this	ogen cyanide nides such as c oxycyanide	with the ferrocyanides,		<1	mg/kg	1.884	<1.884 mg/l	sg <0.000188 %		<lod< td=""></lod<>
18		dibenz[a,h]anthracene 601-041-00-2 200-18	1-8	53-70-3		<0.05	mg/kg		<0.05 mg/	rg <0.000005 %		<lod< td=""></lod<>
19	0	fluoranthene 205-912	2-4	206-44-0		<0.05	mg/kg		<0.05 mg/	g <0.00005 %		<lod< td=""></lod<>
20	0	fluorene 201-69	5-5	86-73-7		<0.05	mg/kg		<0.05 mg/l	sg <0.000005 %		<lod< td=""></lod<>
21	0	indeno[123-cd]pyrene 205-89	3-2	193-39-5		<0.05	mg/kg		<0.05 mg/l	g <0.00005 %		<lod< td=""></lod<>
22	4	lead { lead compounds specified elsewhere in this		eption of those	1	22	mg/kg		22 mg/l	g 0.0022 %		
23	a C	mercury { mercury dichlori 080-010-00-X 231-29	•	7487-94-7		<0.3	mg/kg	1.353	<0.406 mg/l	sg <0.0000406 %		<lod< td=""></lod<>
24		naphthalene 601-052-00-2 202-049	9-5	91-20-3		<0.05	mg/kg		<0.05 mg/l	g <0.00005 %		<lod< td=""></lod<>
25	a Q	nickel { nickel dihydroxide } 028-008-00-X	} 8-5 [1]	12054-48-7 [1] 11113-74-9 [2]		27	mg/kg	1.579	42.646 mg/l	g 0.00426 %		
26	0	pH		PH		8.2	pН		8.2 pH	8.2 pH		
27	0	phenanthrene 201-58	1-5	85-01-8		<0.05	mg/kg		<0.05 mg/	rg <0.000005 %		<lod< td=""></lod<>
28		phenol 604-001-00-2 203-633	2-7	108-95-2		<1	mg/kg		<1 mg/	g <0.0001 %		<lod< td=""></lod<>
29	0	pyrene 204-92	7-3	129-00-0		<0.05	mg/kg		<0.05 mg/	rg <0.000005 %		<lod< td=""></lod<>
30		zinc { zinc oxide }	2-5	1314-13-2		60	mg/kg	1.245	74.683 mg/	g 0.00747 %		
	_	1							Tot	al: 0.0266 %		

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

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Appendix A: Classifier defined and non CLP determinands

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

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

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

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

• boron tribromide/trichloride/trifluoride (combined) (CAS Number: 10294-33-4, 10294-34-5, 7637-07-2)

Description/Comments: Combines the hazard statements and the average of the conversion factors for boron tribromide, boron

trichloride and boron trifluoride

Data source: N/A

Data source date: 06 Aug 2015

Hazard Statements: EUH014, Acute Tox. 2 H330, Acute Tox. 2 H300, Skin Corr. 1A H314, Skin Corr. 1B H314

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

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 cvanide

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

• 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

• 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





• 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

lead compounds with the exception of those specified elsewhere in this Annex

CLP index number: 082-001-00-6

Description/Comments: Least-worst case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH

Consortium, following CLP protocols, considers many simple lead compounds to be Carcinogenic category 2

Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)

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 2A (Sup 7, 87) 2006; Lead REACH Consortium

www.reach-lead.eu/substanceinformation.html. 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.

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

•

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

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

beryllium {beryllium oxide}

Worst case species based on hazard statements

boron {boron tribromide/trichloride/trifluoride (combined)}

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

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

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Most likely common species

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

Worst case species

lead {lead compounds with the exception of those specified elsewhere in this Annex}

Worst case species based on hazard statements

mercury {mercury dichloride}

Worst case species based on hazard statements

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nickel {nickel dihydroxide}

Worst case species based on hazard statements

zinc {zinc oxide}

Worst case species based on hazard statements

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2021.21.4607.8904 (21 Jan 2021)

HazWasteOnline Database: 2021.21.4607.8904 (21 Jan 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



WAC Data





Cameron Adams

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e: reception@i2analytical.com

Analytical Report Number: 20-43412

Project / Site name: Himley Village, Bicester Samples received on: 23/11/2020

Your job number: C-16153 Samples instructed on/ 23/11/2020

Analysis started on:

Your order number: P003498 Analysis completed by: 01/12/2020

Report Issue Number: 1 Report issued on: 01/12/2020

Samples Analysed: 10:1 WAC sample

Signed:

Karolina Marek PL Head of Reporting Team

For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are : soils - 4 weeks from reporting

leachates - 2 weeks from reporting waters - 2 weeks from reporting asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies.

An estimate of measurement uncertainty can be provided on request.





7 Woodshots Meadow Croxley Green Business Park Watford, WD18 8YS



Fax: 01923 237404

Telephone: 01923 225404

Waste Acceptance Criteria Analytical	Results						
Report No:		20-43412					
				Client:	HYDROCK		
Location		Himley Village, Bicester					
Lab Reference (Sample Number)		1695565 / 1695566		Landfill	Waste Acceptant	e Criteria	
Sampling Date		20/11/2020			Stable Non-		
Sample ID		TP78			reactive	Hazardous	
Depth (m)		0.10		Inert Waste Landfill			
Solid Waste Analysis							
TOC (%)**	3.3			3%	5%	6%	
Loss on Ignition (%) **	10.9					10%	
BTEX (µg/kg) ** Sum of BCRs (mg/kg) **	< 10			6000			
Sum of PCBs (mg/kg) ** Mineral Oil (mg/kg)	< 0.007 210			1 500			
Total PAH (WAC-17) (mg/kg)	< 0.85			100			
pH (units)**	7.9				>6		
Acid Neutralisation Capacity (mol / kg)	1.2				To be evaluated	To be evaluated	
				Limit valu	es for compliance le	aching test	
Eluate Analysis	10:1		10:1				
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l		mg/kg	using 65 EN	I 12457-2 at L/S 10	i/kg (mg/kg)	
Arsenic *	< 0.0010		< 0.0100	0.5	2	25	
Barium *	0.0080		0.0641	20	100	300	
Cadmium *	< 0.0001		< 0.0008	0.04	1	5	
Chromium *	< 0.0004		< 0.0040	0.5	10	70	
Copper *	0.0060		0.048	2	50	100	
Mercury * Molybdenum *	< 0.0005 < 0.0004		< 0.0050 < 0.0040	0.01	0.2 10	30	
Nickel *	0.0009		0.0072	0.4	10	40	
Lead *	0.0061		0.049	0.5	10	50	
Antimony *	< 0.0017		< 0.017	0.06	0.7	5	
Selenium *	< 0.0040		< 0.040	0.1	0.5	7	
Zinc *	0.0039		0.031	4	50	200	
Chloride *	2.2		18	800	15000	25000	
Fluoride	0.57		4.5	10	150	500	
Sulphate *	2.5		20	1000	20000	50000	
TDS*	50		400	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0.010		< 0.10	1	-	-	
DOC	9.36		74.8	500	800	1000	
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.2						
Dry Matter (%)	78				1		
Moisture (%)	22				+		
	1	1	1	ı			

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as

amended) and EA Guidance WM3.

This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

** = MCERTS accredited

Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation





Analytical Report Number : 20-43412 Project / Site name: Himley Village, Bicester

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1695565	TP78	None Supplied	0.1	Brown loam and sand with vegetation and gravel.





Analytical Report Number : 20-43412 Project / Site name: Himley Village, Bicester

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance""	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073-PL	W	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025





Analytical Report Number : 20-43412 Project / Site name: Himley Village, Bicester

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Description Analytical Method Reference		Wet / Dry Analysis	Accreditation Status
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004-PL	W	ISO 17025
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.





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t: 01923 225404 **f:** 01923 237404

e: reception@i2analytical.com

Analytical Report Number: 20-44776

Project / Site name: Himley Vilage, Bicester Samples received on: 27/11/2020

Your job number: C-16153 **Samples instructed on/** 01/12/2020

Analysis started on:

Your order number: P003677 Analysis completed by: 09/12/2020

Report Issue Number: 1 **Report issued on:** 09/12/2020

Samples Analysed: 10:1 WAC sample

Signed:

Karolina Marek PL Head of Reporting Team

For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are : soils - 4 weeks from reporting

leachates - 2 weeks from reporting waters - 2 weeks from reporting asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies.

An estimate of measurement uncertainty can be provided on request.





i2 Analytical

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Waste Acceptance Criteria Analytical Report No:		20-4	4776				
•							
					Client:	HYDROCK	
Location		Himley Vila	ge, Bicester				
		Tilliney Vila	ge, Dicester		Landfill	Waste Acceptance	e Criteria
Lab Reference (Sample Number)	1703083 / 1703084					Limits	
Sampling Date	26/11/2020					Stable Non-	
Sample ID	TP80			Inert Waste	reactive HAZARDOUS	Hazardous	
Depth (m)	0.30			Landfill	waste in non- hazardous Landfill	Waste Landfill	
Solid Waste Analysis							
TOC (%)**	2.6				3%	5%	6%
Loss on Ignition (%) **	5.2						10%
BTEX (μg/kg) **	< 10		1	1	6000		
Sum of PCBs (mg/kg) **	< 0.007		<u> </u>	1	1		
Mineral Oil (mg/kg)	< 10		<u> </u>	1	500 100		-
Total PAH (WAC-17) (mg/kg) pH (units)**	< 0.85 8.4		-	-	100		
						>6	
Acid Neutralisation Capacity (mol / kg)	4.8					To be evaluated	To be evaluated
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using bs En	1 12457-2 dt L/S 10	i/kg (mg/kg)
Arsenic *	0.0036			0.0296	0.5	2	25
Barium *	0.0085			0.0703	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	< 0.0004			< 0.0040	0.5	10	70
Copper *	0.0056			0.046	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	< 0.0004			< 0.0040	0.5	10	30
Nickel *	0.0008			0.0064	0.4	10	40
Lead *	0.0027			0.023	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0054			0.045	4	50	200
Chloride *	1.3			11 5.3	800 10	15000 150	25000 500
Fluoride Sulphate *	0.64 3.8			31	1000	20000	50000
TDS*	72			600	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	6.35			52.5	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.90			1			
Ory Matter (%)	87						
Moisture (%)	13						
			l	1	*= UKAS accredit		l

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.

This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.





Analytical Report Number : 20-44776 Project / Site name: Himley Vilage, Bicester

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

	Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
ı	1703083	TP80	None Supplied	0.3	Brown loam and clay with gravel and vegetation.





Analytical Report Number : 20-44776 Project / Site name: Himley Vilage, Bicester

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance""	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	w	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073-PL	W	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025





Analytical Report Number: 20-44776 Project / Site name: Himley Vilage, Bicester

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	nalytical Method Description Analytical Method Reference		Wet / Dry Analysis	Accreditation Status
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004-PL	W	ISO 17025
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



Appendix H

Preliminary Geotechnical Risk Register



Geotechnical Hazard Identification - Desk Study Stage

Potential geotechnical hazards have been assessed in accordance with the general requirements of ICE/DETR Document 'Managing Geotechnical Risk' and the HE documents HD 41/15 and CD 622. The following pages set out the identified geotechnical risks and hazards which are associated with the proposed development and establish the approach which is to be taken to manage the risks including the geotechnical input and analysis.

Table J.1 is a preliminary assessment of possible geotechnical hazards at the site at Desk Study stage. This information is used to assist with ground investigation design.

Table J.1: Possible geotechnical hazards

Hazard	Comment	Hazard status based on desk study			
		Could be present and / or affect site (i.e. Plausible)	Unlikely to be present and/or affect site		
Uncontrolled Made Ground (variable strength and compressibility).	No Made Ground was encountered during the Hyder investigation and the site is relatively flat and at a low gradient.	-	√		
Soft/loose compressible ground (low strength and high settlement potential).	Potential for water-softened or heavily weathered natural soils.	✓	-		
Shrinkage/swelling of the clay fraction of soils under the influence of vegetation.	Historical investigations indicated medium volume change potential clays.	✓	-		
Lateral and vertical changes in ground conditions.	Potential for variable ground conditions across the site.	✓	-		
High sulfates present in the soils.	Unlikely based on historical investigations and known geology.	-	√		
Adverse chemical ground conditions, (e.g. expansive slag).	Unlikely based on historical investigations and known geology.	-	√		
Obstructions.	Difficulty excavating through limestone beds.	✓	-		
Existing below ground structures to remain.	There are no existing or historical structures on site.	-	✓		
Shallow groundwater.	Historical investigations indicate locally shallow groundwater.	√	-		
Changing groundwater conditions.	The groundwater in the Cornbrash Formation is seasonally variable.	✓	-		
Risk from erosion.	Not in an area considered to be a risk from erosion.	-	√		
Risk from flooding.	In a low risk flood area.	-	✓		



Hazard	Comment	Hazard status ba	ased on desk study		
		Could be present and / or affect site (i.e. Plausible)	Unlikely to be present and/or affect site		
Running sands and/or loose Made Ground, leading to difficulty with excavation and collapse of side walls.	No sands strata or Made Ground were encountered during the Hyder investigation and the site is relatival flat and at a low gradient.	-	√		
Slope stability issues – general slopes.	The site is relatively flat and	-	✓		
Slope stability issues – retaining walls.	at a low gradient.	-	✓		
Solution features in limestone.	Unlikely to be encountered,	✓	-		
Cavities in the Superficial Deposits due to solution features.	but possible.	✓	-		
Mining.	The site is not affected by mining or quarrying.	-	✓		
Cambered ground with gulls possibly present.	The geology of the site is not susceptible to cambering.	-	✓		
Relic Slip Surfaces.	The site is relatively flat and at a low gradient.	-	✓		
Solifluction.	The site is relatively flat and at a low gradient.	-	√		
Problematic soils (silts and rewetting etc.).	No soils of this type are anticipated.	-	✓		



Geotechnical Hazard Identification – Following Ground Investigation

The preliminary Geotechnical Risk Register following Ground Investigation is set out in Table J.3.

The probability and impact of a hazard have been judged on a qualitative scale as set out in Table J.2. The degree of risk (R) is determined by combining tan assessment of the probability (P) of the hazard occurring with an assessment of the impact (I) of the hazard and associated mitigation it will require if it occurs (R = P x I).

Table J.2: Qualitative assessment of hazards and risks

P = Probabili	P = Probability		I = Impact			R = Risk Rating (P x I)		
1	Very unlikely (VU)		1	Very Low		1-4	None / negligible	
2	Unlikely (U)		2	Low		5 – 9	Minor	
3	Plausible(P)		3	Medium		10 – 14	Moderate	
4	Likely (Lk)		4	High		15 – 19	Substantial	
5	Very Likely (VLk)		5	Very High		20 - 25	Severe	



Table J.3: Preliminary geotechnical risk register

Hazard	Comments	Who is at Risk	Consequence		sk Bef litigati		Actions Required				
				Р	-1	R					
	Residential Dwellings.	Foundation bearing capacity failure, settlement (total and differential).	3	4	12	Design foundations to found below any loose relative density gravel or soft clay.					
			Floor slab failure.	3	4	12	Design floor slab as suspended.				
	The shallow soils of the Head Deposits and Cornbrash Formation are typically firm (or better) clays, gravels and limestone (Cornbrash	the Head Deposits and Cornbrash Formation	the Head Deposits and Cornbrash Formation	the Head Deposits and Cornbrash Formation	the Head Deposits and Cornbrash Formation	Roads and Pavements.	Settlement (total and differential), of roads and pavements.	3	3	9	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant, and cannot be mitigated by design, over-excavate and replace soft soils.
Soft / loose compressible ground		Services.	Settlement (differential), causing damage to services.	2	3	6	Ground levels are remaining at approximately current levels. Settlements are not anticipated to be significant.				
(low strength and high settlement potential).	Formation). Therefore widespread	Gardens.	Settlement (differential), in gardens.	1	3	1	No additional design requirements envisaged.				
	compressible ground is not anticipated, however local softened areas were recorded.	Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	3	9	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.				



Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				Р	- 1	R	
Shrinkage / swelling of the clay fraction of soils under the influence of vegetation. The clays of the Cornbrash Formation and Forest Marble Formation are medium heave potential.		Foundations.	Shrinkage or heave of soils and associated damage to foundations.	4	3	12	Design foundations in accordance with NHBC standards. Deepen foundations due to trees as appropriate. Consider use of piles where foundation depths are >2.50m
	Floor slabs.	Floor slab failure.	4	4	16	Design floor slabs in accordance with NHBC standards. Design floor slab as suspended with a void, unless the warranty provider is satisfied the soil is not desiccated, or slabs are constructed when soils are not seasonally desiccated (i.e. during winter and spring).	
	Residential Dwellings.	Foundation bearing capacity failure, settlement (total and differential).	4	4	16	Design foundations to found below any loose relative density gravel or soft clay, and to take into account tree influence.	
			Floor slab failure.	4	4	16	Design floor slab as suspended.
	Head Deposits have been recorded sporadically across the	Roads and Pavements.	Settlement (total and differential), of roads and pavements.	3	3	9	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant, and cannot be mitigated by design, over-excavate and replace unsuitable soils.
Variable lateral and vertical changes in ground conditions.	site and varying bands of clay and limestone were recorded in both the Cornbrash	Services.	Settlement (differential), causing damage to services.	2	3	6	Settlements are not anticipated to be significant with regard to services. No additional design requirements envisaged.
	Formation and Forest Marble Formation.	Gardens.	Settlement (differential), in gardens.	1	3	3	It is unlikely that settlements will be significant with respect to gardens.
.mar.s.e r o maaron.	Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	3	9	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.	



Hazard	Comments	Who is at Risk	Consequence		sk Bef Iitigati		Actions Required
				Р	- 1	R	
Sulfates present in the soils.	The ground investigation has proven that there is the potential for expansive sulfate bearing soils to be present in the Forest Marble Formation	Attack of buried concrete.	Damage to concrete and reduction in strength.	4	4	16	Classify concrete in accordance with BRE SD1 and design concrete accordingly.
	Shallow limestone	Construction staff, vehicles and plant operators.	Risk of collapse of excavation as obstructions are pulled out.	4	3	12	
Obstructions.	Obstructions. beds have been proven during the	Roads and Pavements.	Hard spots in externals and roads / pavements.	4	2	8	Allow for a breaker to be present during construction to allow excavation through the limestone beds.
investigation.	Residential Dwellings.	Impact on piling, resulting in additional piles / columns and redesign of foundations.	4	3	12		

Cont...



Hazard	Comments	Who is at Risk	Consequence		sk Befo		Actions Required
				Р	-1	R	
		Construction	Difficulty with excavation.				Contractor to appoint competent Temporary Works Designer to design temporary works, in accordance with BS 5975:2008+A1:2011.
Shallow groundwater.	88	staff, vehicles and plant operators.	Limit state failure, excessive deformation, trafficking of site plant, inability to place and compact fill.	5	2	10	Temporary Works Designer to consider in their analysis the impact of, and requirements for, de-watering of excavations. Any water that collects at the base of excavations to be removed as soon as practicable.
	groundwater table	Slopes and Retaining.	Serviceability issues.	4	2	8	Contractor to appoint competent Temporary Works Designer to design temporary works, as required in accordance with BS 5975:2008+A1:2011. The shallow groundwater is to be taken into account during geotechnical design of the permanent works.
		Construction staff, vehicles and plant operators.	Difficulty with excavation. Limit state failure, excessive deformation, trafficking of site plant, inability to place and compact fill.	4	2	8	Contractor to appoint competent Temporary Works Designer to design temporary works as required, in accordance with BS 5975:2008+A1:2011. Temporary Works Designer to consider in their analysis the impact of a variable water table.
Changing groundwater conditions.	Groundwater has been monitored at shallow depths but has the potential to vary seasonally.	Slopes and Retaining.	Serviceability issues.	4	2	8	Contractor to appoint competent Temporary Works Designer to design temporary works, as required in accordance with BS 5975:2008+A1:2011. Design drainage for retaining walls to account for fluctuating groundwater levels. The shallow groundwater is to be taken into account during geotechnical design of the permanent works.



Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required			
				Р	I	R				
Solution features in the limestone.	Unlikely but possible in the limestone. Not encountered during investigations.	Residential Dwellings	Reduction of lateral support potentially affecting stability of the structure.	1	4	8				
			Floor slab failure.	1	4	4				
		Roads and Pavements	Serviceability affected.	1	3	3	Watching brief during construction by contractor Treatment of loose and voided ground if encountered. If treatment (compaction grouting) is required, this will need to be designed and undertaken by a specialist.			
		Services.	Damage to services. Leaking drainage causing inundation and further collapse.	1	3	3				
		Gardens.	Depression or void forming at the surface.	1	3	3				
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	1	3	3				

Cont....



Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required		
				Р	-	R			
	Unlikely but possible in the limestone. Not encountered during investigations.	Residential Dwellings.	Reduction of lateral support potentially affecting stability of the structure.	1	5	5			
			Floor slab failure.	1	5	5			
		Roads and Pavements.	Serviceability affected.	1	3	3	Watching brief during construction by contractor		
Cavities in the Superficial Deposits, due to solution features.		Services.	Damage to services. Leaking drainage causing inundation and further collapse.	1	3	3	Treatment of loose and voided ground if encountered. If treatment (compaction grouting) is required, this will need to be designed and undertaken by a specialist.		
		Gardens.	Depression or void forming at the surface.	1	3	3			
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	1	3	3			
Unforeseen ground conditions - risk associated with limited data.	Ground investigation has been undertaken. However, additional information will be obtained during construction. Ground conditions are only defined at exploratory hole locations.	All aspects of the development		3	4	12	Designers to be contacted if conditions encountered are different to those identified during investigation. Regular inspections of excavations and earthworks for evidence of stability. Adequate investigation required to characterise the site and understand the potential risks.		



Whilst the probability and impact of the hazard occurring can be reduced to a minimum by geotechnical design, the impact cannot be reduced below very low. The risk register will need to be up-dated, as necessary, to reflect design, additional information, data and experience as it is gained through the construction process.

Impacts of the design with regard to health and Safety considerations will need to be included by the designer at design stage.



Appendix I

Plausible Source-Pathway-Receptor Contaminant Linkages



Summary of Potential Contaminant Linkages

Table K.2 lists the plausible contaminant linkages which have been identified. These are considered as potentially unacceptable risks in line with guidelines published in LCRM (2019) and additional risk assessment is required.

Source – Pathway – Receptor Linkages have been assessed in general accordance with guidance in CIRIA Report C552 (Rudland et al 2001) but modified to add a 'no linkage' category and to remove low/moderate risk (See Table K.1). Further information is given in the relevant Hydrock methodology, referenced in Appendix J, including descriptions of typical examples of probability and consequences.

It should be noted that whilst the risk assessment process undertaken in this report may identify potential risks to site demolition and redevelopment workers, consideration of occupational health and safety issues is beyond the scope of this report and need to be considered separately in the Construction Phase Health and Safety Plan.

Table K.1: Consequence versus probability assessment.

		Consequence								
		Severe	Medium	Mild	Minor					
	High Likelihood	Very high risk	High risk	Moderate risk	Low risk					
Probability	Likely High risk		Moderate risk	Low risk	Very low risk					
	Low Likelihood	Moderate risk	Low risk	Low risk	Very low risk					
	Unlikely	Low risk	Very low risk	Very low risk	Very low risk					
	No Linkage	No risk								



Table K.2: Exposure model – final source-pathway-receptor contaminant linkages

Sources	Possible Pathways	Receptors	Probability	pility Consequence Risk Le		Comments		
Pesticides in the Topsoil at TP64.	Ingestion, inhalation or direct contact.	Site users.	Likely	Medium	Moderate	Pesticides have been recorded locally at TP64	Contact with these materials is likely in gardens and areas of Public Open Space. Mitigation measures will be required to break the SPR linkage.	
	Inhalation of fugitive dust.	Neighbours.	Low likelihood	Medium	Low	in the topsoil.	The risk of significant generation of dust is likely only during site development process and can therefore be controlled.	
Potential ACM in crushed aggregate in the farm track	Inhalation or Ingestion	ation or Ingestion Site users		Severe	High	Further investigation	Excavate and removal as	
	Inhalation of fugitive dust.	Neighbours.	Low likelihood	Severe	Moderate	required. See Sections 9 and 10.	hazardous waste to suitably licensed waste facility, possibly requiring licensed contractors.	



Appendix J

Hydrock Methodologies

This report uses Hydrock Desk Study and Ground Investigation template V47.1.

This appendix provides additional background information on certain approaches and methods used by Hydrock Consultants Limited in the preparation of this report.

The following Hydrock Methodologies apply to this report. These are not included, but are available on request by quoting the methodology reference, revision and date.

Reference	Name	Revision	Date
002	Ground Investigation	001	30/07/2018
003	Preliminary Geo-environmental Risk Assessment Rationale	001	30/07/2018
004	Preliminary geotechnical Risk Register	001	30/07/2018
005	Generic Risk Assessment for Human Health (Soils)	001	30/07/2018
008	Generic Risk Assessment for Risk to Plants	001	30/07/2018
009	Generic Risk Assessment for Water Supply Pipes	001	30/07/2018
010	Generic Ground Gas Risk Assessment	001	30/07/2018
012	Waste Management	001	30/07/2018
013	Materials Management	001	30/07/2018
014	Asbestos in Soils	001	30/07/2018
015	Remediation and Mitigation (New Methodology)	001	30/07/2018
016	Geotechnical Categorization and Characteristic Design Values	001	30/07/2018
017	Foundation and Floor Slab Recommendations - Residential	001	30/07/2018
019	Earthworks Suitability Recommendations	001	30/07/2018
020	Pavements and Pavement Foundations	001	30/07/2018
023	Sulphate Recommendations	001	30/07/2018