

Appendix C. Chemical Analysis

- Soil (76 pages)
- Leachate (27 pages)
- Groundwater (8 pages)
- HazWaste Report (140 pages)

END USE SCENARIO

Residential with plant uptake (2.5% SOM)

USE No.	USE Name	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	
In-organics	Asenic	37.00	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70	
	Berilium	1.76	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	
	Boron (VFAE Subst)	200.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	
	Chromium (VI)	910.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	
	Chromium (III)	21.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	
	Copper	200.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
	Iron	41000.00	3200.00	3200.00	3200.00	3200.00	3200.00	3200.00	3200.00	3200.00	3200.00	3200.00	
	Manganese	14.00	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	
	Molybdenum	2.40	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	
	Nickel	167.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Non-Metals	Selenium	200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	Vanadium	410.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	
	Zinc (FSA)	200.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	Chromium Oxide	63000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total Cyanide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	TPH CWG	Chloride	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Ammonia EC2B	70.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
		Ammonia EC2C	20.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
		Ammonia EC2D	50.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
		Ammonia EC2E	30.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Ammonia EC2F		90000.00	<0.0	<0.0	<0.0	<0.0	<0.0	<0.0	<0.0	<0.0	<0.0		
Ammonia EC2G		140.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Ammonia EC2H		200.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Ammonia EC2I		100.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Ammonia EC2J		330.00	<0.0	<0.0	<0.0	<0.0	<0.0	<0.0	<0.0	<0.0	<0.0		
BTEX	Acetone	100.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	Ethyl Benzene	100.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	Benzene	100.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	Xylene o	100.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	Xylene p	100.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	Toluene	100.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	16 US EPA PAHs (GCMs)	Acenaphthene	6.00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		Acenaphthylene	400.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
		Fluorene	400.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
		Phenanthrene	220.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene		200.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Fluoranthene		600.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Pyrene		1500.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Benzo[b]fluoranthene		200.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Benzo[k]fluoranthene		90.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Indeno[1,2,3-cd]perylene		30.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
General	Dibenz[ah]anthracene	30.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
	Benzo[e]pyrene	300.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
	SOM % (GAS)	1.00	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	
	Total Organic Carbon	0.00	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
	Methane Content	20.00	10.00	24.00	20.00	25.00	11.00	14	7.4	7.4	7.4	20	

Job No	W1E13963-104
Site Name	MOD Graven Hill, Bicester

END USE SCENARIO

Allotments (1% SOM)

Sample	TP506	TP507	TP507	TP509	TP510	TP510	CP103	CP105
Depth	0.10	0.20	0.80	0.60	0.20	0.60	0.25	0.25
Strata	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
In-organics								
Arsenic	mg/kg	11.00	6.60	11.00	13.00	11.00	12.00	13.00
Barium	mg/kg	64.00	40.00	42.00	98.00	42.00	88.00	62.00
Beryllium	mg/kg	1.10	0.60	0.80	1.00	0.60	1.00	1.00
Boron (Water Soluble)	mg/kg	45.00	1.60	3.10	2.00	2.00	<0.2	0.40
Cadmium	mg/kg	0.40	0.30	0.30	0.70	0.30	0.30	<0.2
Chromium (Total)	mg/kg	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chromium (VI)	mg/kg	34.00	27.00	33.00	33.00	29.00	33.00	28.00
Cobalt	mg/kg	8.30	4.70	8.50	20.00	5.70	12.00	7.30
Copper	mg/kg	20.00	19.00	18.00	19.00	19.00	19.00	15.00
Iron	mg/kg	38000.00	20000.00	30000.00	44000.00	22000.00	37000.00	21000.00
Lead	mg/kg	21.00	24.00	11.00	17.00	14.00	14.00	9.90
Mercury	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Molybdenum	mg/kg	1.40	0.80	0.90	1.00	0.90	0.70	1.10
Nickel	mg/kg	26.00	13.00	29.00	31.00	20.00	28.00	36.00
Selenium	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	mg/kg	91.00	40.00	29.00	42.00	42.00	41.00	45.00
Zinc	mg/kg	620.00	100.00	90.00	70.00	88.00	66.00	42.00
TPH GWC								
Aliphatic EC5 - EC6	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatic EC6 - EC8	mg/kg	2300.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatic EC8-EC10	mg/kg	320.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatic EC10-EC12	mg/kg	2200.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Aliphatic EC12-EC16	mg/kg	11000.00	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Aliphatic EC16-EC21	mg/kg	26000.00	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Aliphatic EC21-EC35	mg/kg	26000.00	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Total Aliphatics (EC5 - EC44)	mg/kg	<10	12	<10	<10	<10	<10	<10
Aromatic EC5-EC7	mg/kg	13.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatic EC7-EC8	mg/kg	22.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatic EC8-EC10	mg/kg	8.60	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatic EC10-EC12	mg/kg	13.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Aromatic EC12-EC16	mg/kg	23.00	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Aromatic EC16-EC21	mg/kg	46.00	<10	<10	<10	<10	<10	<10
Aromatic EC21-EC35	mg/kg	370.00	<10	<10	<10	<10	<10	<10
Total Aliphatics and Aromatics (EC5-EC35)	mg/kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Benzene	mg/kg	0.02	0.00	0.00	0.00	0.00	0.00	<10
Toluene	mg/kg	22.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethyl Benzene	mg/kg	16.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene - m	mg/kg	31.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene - o	mg/kg	28.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene - p	mg/kg	22.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MTBE	mg/kg	4.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Naphthalene	mg/kg	28.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	34.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	27.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	15.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	380.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Anthracene	mg/kg	62.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	110.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Pyrene	mg/kg	2.90	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benz(a)anthracene	mg/kg	4.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	mg/kg	4.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benz(b)fluoranthene	mg/kg	0.99	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benz(k)fluoranthene	mg/kg	37.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benz(a)pyrene	mg/kg	0.97	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Indeno(1,2,3-cd)pyrene	mg/kg	9.50	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Dibenz(a,h)anthracene	mg/kg	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzog(h,i,l)perylene	mg/kg	290.00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
S.O.M. % (Calc)	%	2.20	5.10	0.10	0.90	2.30	0.40	0.10
Total Organic Carbon	mg/kg	1.3	2.9	<0.1	0.3	1.3	0.2	<0.1
pH		6.90	6.30	7.00	7.30	6.00	6.90	7.10
General								
Soil Screen Proper	Visual	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Soil Screens		0.00						



David Owen
Geotechnical Engineering Ltd
Centurion House
Olympus Park
Quedgeley
Gloucester
GL2 4NF

t: 01452 527 743
f: 01452 729 314
e: david.owen@geoeng.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 15-70066

Project / Site name:	Graven Hill, Bicester	Samples received on:	26/03/2015
Your job number:	30378	Samples instructed on:	17/04/2015
Your order number:		Analysis completed by:	24/04/2015
Report Issue Number:	1	Report issued on:	24/04/2015
Samples Analysed:	1 leachate sample - 3 soil samples		

Signed: 

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed: 

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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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Environmental Science

Analytical Report Number: 15-70066

Project / Site name: Graven Hill, Bicester

Lab Sample Number	435132	435133	435134			
Sample Reference	CP111	CP111	CP111			
Sample Number	None Supplied	None Supplied	None Supplied			
Depth (m)	0.25	0.50	1.00			
Date Sampled	18/03/2015	18/03/2015	18/03/2015			
Time Taken	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	14	7.4	20
Total mass of sample received	kg	0.001	NONE	1.4	1.5	1.6

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected

General Inorganics

pH	pH Units	N/A	MCERTS	8.1	8.6	7.9
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	1100	1300	1600
Total Chloride	mg/kg	5	NONE	14	< 5	78
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.43	0.23	0.16
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	0.48	< 0.10	0.15
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	1.6	0.37	0.55
Pyrene	mg/kg	0.1	MCERTS	1.7	0.36	0.50
Benzo(a)anthracene	mg/kg	0.1	MCERTS	1.4	0.20	0.33
Chrysene	mg/kg	0.05	MCERTS	1.3	0.24	0.27
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	2.1	0.36	0.46
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.60	0.19	0.13
Benzo(a)pyrene	mg/kg	0.1	MCERTS	1.4	0.27	0.35
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.80	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	0.12	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.81	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	12.6	2.22	2.90

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	7.0	5.3
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	37	42
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.8	0.3	0.6
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	< 0.2	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	13	4.6	17
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	21	4.1	5.8
Copper (aqua regia extractable)	mg/kg	1	MCERTS	67	20	42
Iron (aqua regia extractable)	mg/kg	40	MCERTS	41000	9500	16000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	97	8.6	14
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	5.8	0.9	0.8
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	51	12	14
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	57	15	23
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	31	21	47

Analytical Report Number: 15-70066
Project / Site name: Graven Hill, Bicester

Lab Sample Number	435132		435133		435134			
Sample Reference	CP111		CP111		CP111			
Sample Number	None Supplied		None Supplied		None Supplied			
Depth (m)	0.25		0.50		1.00			
Date Sampled	18/03/2015		18/03/2015		18/03/2015			
Time Taken	None Supplied		None Supplied		None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	2.2	< 2.0		
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0		
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	20	31	69		
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	20	33	69		

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0		
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	13	< 10	< 10		
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	13	< 10	< 10		



Analytical Report Number: 15-70066
 Project / Site name: Graven Hill, Bicester

Lab Sample Number				435135			
Sample Reference				CP111			
Sample Number				None Supplied			
Depth (m)				0.25			
Date Sampled				18/03/2015			
Time Taken				None Supplied			
Analytical Parameter (Leachate Analysis)		Units	Limit of detection	Accreditation Status			

General Inorganics

Sulphate as SO ₄	µg/l	100	ISO 17025	45200			
Chloride	mg/l	4	NONE	< 4.0			
Fluoride	µg/l	50	NONE	1000			

Phenols by GC-MS

Phenol	µg/l	0.05	NONE	0.85			
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05			
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05			
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05			
2,4-Dimethylphenol	µg/l	0.05	NONE	0.70			
2-Chlorophenol	µg/l	0.05	NONE	< 0.05			
2-Methylphenol	µg/l	0.05	NONE	1.0			
2-Nitrophenol	µg/l	0.05	NONE	< 0.05			
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05			
4-Methylphenol	µg/l	0.05	NONE	1.5			

Total Phenols

Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10			
Total Phenols (GC-MS)	µg/l	1	NONE	4.1			

Speciated PAHs

Naphthalene	µg/l	0.01	NONE	< 0.01			
Acenaphthylene	µg/l	0.01	NONE	< 0.01			
Acenaphthene	µg/l	0.01	NONE	< 0.01			
Fluorene	µg/l	0.01	NONE	< 0.01			
Phenanthrene	µg/l	0.01	NONE	< 0.01			
Anthracene	µg/l	0.01	NONE	< 0.01			
Fluoranthene	µg/l	0.01	NONE	< 0.01			
Pyrene	µg/l	0.01	NONE	< 0.01			
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01			
Chrysene	µg/l	0.01	NONE	< 0.01			
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01			
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01			
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01			
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01			
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01			
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01			

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2			
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Analytical Report Number: 15-70066
 Project / Site name: Graven Hill, Bicester

Lab Sample Number	435135
Sample Reference	CP111
Sample Number	None Supplied
Depth (m)	0.25
Date Sampled	18/03/2015
Time Taken	None Supplied

Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status				
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	3.7			
Barium (dissolved)	µg/l	0.05	ISO 17025	65			
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2			
Boron (dissolved)	µg/l	10	ISO 17025	49			
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08			
Chromium (hexavalent)	µg/l	5	NONE	< 5.0			
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.2			
Copper (dissolved)	µg/l	0.7	ISO 17025	2.1			
Iron (dissolved)	mg/l	0.004	ISO 17025	0.14			
Lead (dissolved)	µg/l	1	ISO 17025	1.7			
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5			
Molybdenum (dissolved)	µg/l	0.4	ISO 17025	14			
Nickel (dissolved)	µg/l	0.3	ISO 17025	1.1			
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0			
Vanadium (dissolved)	µg/l	1.7	ISO 17025	3.2			
Zinc (dissolved)	µg/l	0.4	ISO 17025	< 0.4			

Monoaromatics

Benzene	µg/l	1	NONE	< 1.0			
Toluene	µg/l	1	NONE	< 1.0			
Ethylbenzene	µg/l	1	NONE	< 1.0			
p & m-xylene	µg/l	1	NONE	< 1.0			
o-xylene	µg/l	1	NONE	< 1.0			

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10			
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Environmental Science

Analytical Report Number : 15-70066

Project / Site name: Graven Hill, 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 topsoil/loam 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 *
435132	CP111	None Supplied	0.25	Black sandy topsoil with gravel and vegetation.
435133	CP111	None Supplied	0.50	Light grey clay and sand.
435134	CP111	None Supplied	1.00	Light grey clay.



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Environmental Science

Analytical Report Number : 15-70066

Project / Site name: Graven Hill, 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
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
BTEX in leachates	Determination of BTEX in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073W-PL	W	NONE
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Chloride in leachate	Determination of chloride in leachate by titration against silver nitrate.	In-house method	L024-PL	W	NONE
Chloride in soil	Determination of acid soluble chloride in soil by extraction with nitric acid, addition of silver nitrate followed by titration against thiocyanate.	In-house method	L075-PL	D	NONE
Fluoride in leachate	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*	L033-PL	W	NONE
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals by ICP-OES in leachate	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
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in leachate	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 (skalar)	L080-PL	W	ISO 17025
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Phenols, speciated, in leachate, by GCMS	Determination of speciated phenols in leachate by extraction in hexane followed by GC-MS.	In-house method based on USEPA 8270	L070-PL	W	NONE



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Environmental Science

Analytical Report Number : 15-70066

Project / Site name: Graven Hill, 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
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
Speciated EPA-16 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	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate in leachates	Determination of sulphate 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
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025
TPH1 (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate in soil by extraction in water followed by reaction with sodium salicylate in the presence of sulphuric acid. The reaction product is nitrosalicylic acid, which forms a yellow chromophore upon the addition of alkali, the intensity of which is measured by spectrophotometry.	In-house method based on Polish Standard Method PN-82/C-04579.08.	L078-PL	D	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 30°C.



David Owen
Geotechnical Engineering Ltd
Centurion House
Olympus Park
Quedgeley
Gloucester
GL2 4NF

t: 01452 527 743
f: 01452 729 314
e: david.owen@geoeng.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 15-69425

Project / Site name:	Graven Hill, Bicester	Samples received on:	24/03/2015
Your job number:	30378	Samples instructed on:	02/04/2015
Your order number:		Analysis completed by:	09/04/2015
Report Issue Number:	1	Report issued on:	09/04/2015
Samples Analysed:	2 soil samples		

Signe

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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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Environmental Science

Analytical Report Number: 15-69425

Project / Site name: Graven Hill, Bicester

Lab Sample Number				431566	431567		
Sample Reference				CP103	CP105		
Sample Number				None Supplied	None Supplied		
Depth (m)				0.25	0.25		
Date Sampled				23/03/2015	23/03/2015		
Time Taken				None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	20	15		
Total mass of sample received	kg	0.001	NONE	1.9	1.5		

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected		
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General Inorganics

pH	pH Units	N/A	MCERTS	7.3	7.1		
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1		
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	640	140		
Total Chloride	mg/kg	5	NONE	18	45		
Organic Matter	%	0.1	MCERTS	1.2	0.1		
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.7	< 0.1		
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05		
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05		

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60		
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.1	13		
Barium (aqua regia extractable)	mg/kg	1	MCERTS	59	62		
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1	1.0		
Boron (water soluble)	mg/kg	0.2	MCERTS	1.8	0.4		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	29	28		
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	7.3	9.8		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	21		
Iron (aqua regia extractable)	mg/kg	40	MCERTS	27000	31000		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	9.1	9.9		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3		
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.3	1.1		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	36		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0		
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	41	42		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	72	45		

Analytical Report Number: 15-69425
 Project / Site name: Graven Hill, Bicester

Lab Sample Number	431566		431567				
Sample Reference	CP103		CP105				
Sample Number	None Supplied		None Supplied				
Depth (m)	0.25		0.25				
Date Sampled	23/03/2015		23/03/2015				
Time Taken	None Supplied		None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				

Monoaromatics

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0		
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0		
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0		

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0		
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0		
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0		
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0		
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10		

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0		
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0		
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10		
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10		
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10		



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Environmental Science

Analytical Report Number : 15-69425

Project / Site name: Graven Hill, 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 topsoil/loam 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 *
431566	CP103	None Supplied	0.25	Light brown topsoil and clay with vegetation.
431567	CP105	None Supplied	0.25	Light brown clay and sand.



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Environmental Science

Analytical Report Number : 15-69425

Project / Site name: Graven Hill, 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
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Chloride in soil	Determination of acid soluble chloride in soil by extraction with nitric acid, addition of silver nitrate followed by titration against thiocyanate.	In-house method	L075-PL	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Speciated EPA-16 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	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate in soil by extraction in water followed by reaction with sodium salicylate in the presence of sulphuric acid. The reaction product is nitrosalicylic acid, which forms a yellow chromophore upon the addition of alkali, the intensity of which is measured by spectrophotometry.	In-house method based on Polish Standard Method PN-82/C-04579.08.	L078-PL	D	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.



David Owen

Geotechnical Engineering Ltd
Centurion House
Olympus Park
Quedgeley
Gloucester
GL2 4NF

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01452 527 743
f: 01452 729 314
e: david.owen@geoeng.co.uk

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 15-69423

Project / Site name:	Graven Hill, Bicester	Samples received on:	18/03/2015
Your job number:	30378	Samples instructed on:	02/04/2015
Your order number:		Analysis completed by:	10/04/2015
Report Issue Number:	1	Report issued on:	10/04/2015
Samples Analysed:	9 soil samples		

Signed: _____

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed: _____

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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.

Analytical Report Number: 15-69423

Project / Site name: Graven Hill, Bicester

Lab Sample Number	431556				431557		431558		431559		431560	
Sample Reference	TP504				TP511		TP550		TP550		TP551	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.30				0.60		0.40		1.10		0.40	
Date Sampled	16/03/2015				16/03/2015		16/03/2015		16/03/2015		16/03/2015	
Time Taken	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	29	25	27	29	29	19	19	19	
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH	pH Units	N/A	MCERTS	6.6	5.6	7.3	6.2	6.9
Total Cyanide	mg/kg	1	MCERTS	-	-	-	-	-
Total Chloride	mg/kg	5	NONE	-	-	-	-	-
Organic Matter	%	0.1	MCERTS	0.1	0.7	3.1	1.0	0.4
Total Organic Carbon (TOC)	%	0.1	MCERTS	< 0.1	0.4	1.8	0.6	0.2
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	-	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	< 1.60	< 1.60
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	6.2	8.9	8.7	8.5
Barium (aqua regia extractable)	mg/kg	1	MCERTS	140	70	58	86	58
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.5	1.7	1.1	0.9	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	1.4	0.7	0.8	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.6	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	27	63	38	48	44
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	24	9.7	7.3	5.2	6.2
Copper (aqua regia extractable)	mg/kg	1	MCERTS	23	37	27	39	21
Iron (aqua regia extractable)	mg/kg	40	MCERTS	43000	37000	31000	40000	32000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	18	19	22	19	9.0
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.5	4.0	1.8	2.4	2.6
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	46	35	24	18	24
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	39	49	40	33	48
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	100	110	85	51	64

Analytical Report Number: 15-69423

Project / Site name: Graven Hill, Bicester

Lab Sample Number	431556				431557				431558				431559				431560			
Sample Reference	TP504				TP511				TP550				TP550				TP551			
Sample Number	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Depth (m)	0.30				0.60				0.40				1.10				0.40			
Date Sampled	16/03/2015				16/03/2015				16/03/2015				16/03/2015				16/03/2015			
Time Taken	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status																	

Monoaromatics

Parameter	Units	Limit of detection	Accreditation Status	431556	431557	431558	431559	431560
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

Parameter	Units	Limit of detection	Accreditation Status	431556	431557	431558	431559	431560
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

Parameter	Units	Limit of detection	Accreditation Status	431556	431557	431558	431559	431560
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10



4041



Environmental Science

Analytical Report Number: 15-69423

Project / Site name: Graven Hill, Bicester

Lab Sample Number	431556				431557				431558				431559				431560			
Sample Reference	TP504				TP511				TP550				TP550				TP551			
Sample Number	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Depth (m)	0.30				0.60				0.40				1.10				0.40			
Date Sampled	16/03/2015				16/03/2015				16/03/2015				16/03/2015				16/03/2015			
Time Taken	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status																	

VOCs

Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status																
Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Chloroethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Vinyl Chloride	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Trichlorofluoromethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,1-Dichloroethene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
2,2-Dichloropropane	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,1-Dichloropropene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Benzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Bromodichloromethane	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Toluene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Styrene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Tribromomethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
o-Xylene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Isopropylbenzene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
2-Chlorotoluene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
4-Chlorotoluene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
tert-Butylbenzene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
sec-Butylbenzene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Butylbenzene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
Hexachlorobutadiene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		
1,2,3-Trichlorobenzene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-	-	-	-	-	-	-	-	-	-		

Analytical Report Number: 15-69423
Project / Site name: Graven Hill, Bicester

Lab Sample Number	431561				431562		431563		431564	
Sample Reference	TP554				RC304		CP108		CC419	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied	
Depth (m)	0.20				0.30		0.25		0.40	
Date Sampled	13/03/2015				13/03/2015		17/03/2015		18/03/2015	
Time Taken	None Supplied				None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status							
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	24	20	25	11			
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0			

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH	pH Units	N/A	MCERTS	7.1	7.0	7.2	7.2
Total Cyanide	mg/kg	1	MCERTS	-	-	< 1	-
Total Chloride	mg/kg	5	NONE	-	-	34	-
Organic Matter	%	0.1	MCERTS	1.4	2.2	1.7	0.7
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.8	1.3	1.0	0.4
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	-	-	3.0	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	35
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	26
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	130
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	43
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	190
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	160
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	82
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	75
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	91
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	31
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	80
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	38
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	8.7
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	44

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	1030
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.7	17	12	15
Barium (aqua regia extractable)	mg/kg	1	MCERTS	83	97	230	280
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.9	1.8	1.7	1.0
Boron (water soluble)	mg/kg	0.2	MCERTS	2.8	2.2	0.9	< 0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.5	0.5	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	55	47	55	15
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	19	21	21	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	44	30	32	120
Iron (aqua regia extractable)	mg/kg	40	MCERTS	41000	45000	41000	31000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	20	35	33	75
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	2.8	1.4	1.4	1.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	73	44	48	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	47	75	67	36
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	140	130	120	62

Analytical Report Number: 15-69423

Project / Site name: Graven Hill, Bicester

Lab Sample Number				431561	431562	431563	431564	
Sample Reference				TP554	RC304	CP108	CC419	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				0.20	0.30	0.25	0.40	
Date Sampled				13/03/2015	13/03/2015	17/03/2015	18/03/2015	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	2.0	
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	49	
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	110	
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	170	
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	330	
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	4.1	
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	270	
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	1100	
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	1900	
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	3200	

Analytical Report Number: 15-69423
 Project / Site name: Graven Hill, Bicester

Lab Sample Number				431561	431562	431563	431564
Sample Reference				TP554	RC304	CP108	CC419
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.30	0.25	0.40
Date Sampled				13/03/2015	13/03/2015	17/03/2015	18/03/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
VOCs							
Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-
Chloroethane	µg/kg	1	ISO 17025	-	< 1.0	-	-
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-	-
Vinyl Chloride	µg/kg	1	ISO 17025	-	< 1.0	-	-
Trichlorofluoromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-
1,1-Dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-
2,2-Dichloropropane	µg/kg	1	NONE	-	< 1.0	-	-
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-
1,1-Dichloropropene	µg/kg	1	NONE	-	< 1.0	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-	-
Bromodichloromethane	µg/kg	1	NONE	-	< 1.0	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-
Tetrachloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	-	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-
Styrene	µg/kg	1	MCERTS	-	< 1.0	-	-
Tribromomethane	µg/kg	1	MCERTS	-	< 1.0	-	-
o-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-
Isopropylbenzene	µg/kg	1	NONE	-	< 1.0	-	-
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-
2-Chlorotoluene	µg/kg	1	NONE	-	< 1.0	-	-
4-Chlorotoluene	µg/kg	1	NONE	-	< 1.0	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-
tert-Butylbenzene	µg/kg	1	NONE	-	< 1.0	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-
sec-Butylbenzene	µg/kg	1	NONE	-	< 1.0	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-
Butylbenzene	µg/kg	1	NONE	-	< 1.0	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-
Hexachlorobutadiene	µg/kg	1	NONE	-	< 1.0	-	-
1,2,3-Trichlorobenzene	µg/kg	1	NONE	-	< 1.0	-	-



Analytical Report Number : 15-69423

Project / Site name: Graven Hill, 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 topsoil/loam 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 *
431556	TP504	None Supplied	0.30	Brown sandy topsoil with vegetation.
431557	TP511	None Supplied	0.60	Light brown clay.
431558	TP550	None Supplied	0.40	Brown clay and topsoil.
431559	TP550	None Supplied	1.10	Brown clay and sand.
431560	TP551	None Supplied	0.40	Light brown clay and sand with vegetation.
431561	TP554	None Supplied	0.20	Brown clay and sand with vegetation.
431562	RC304	None Supplied	0.30	Brown clay.
431563	CP108	None Supplied	0.25	Light brown clay and sand.
431564	CC419	None Supplied	0.40	Brown clay and topsoil with gravel and rubble.

Analytical Report Number : 15-69423

Project / Site name: Graven Hill, 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
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L0735-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Chloride in soil	Determination of acid soluble chloride in soil by extraction with nitric acid, addition of silver nitrate followed by titration against thiocyanate.	In-house method	L075-PL	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Speciated EPA-16 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	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L0735-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate in soil by extraction in water followed by reaction with sodium salicylate in the presence of sulphuric acid. The reaction product is nitrosalicylic acid, which forms a yellow chromophore upon the addition of alkali, the intensity of which is measured by spectrophotometry.	In-house method based on Polish Standard Method PN-82/C-04579.08.	L078-PL	D	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.



David Owen

Geotechnical Engineering Ltd
Centurion House
Olympus Park
Quedgeley
Gloucester
GL2 4NF

t: 01452 527 743
f: 01452 729 314
e: david.owen@geoeng.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 15-69420

Project / Site name:	Graven Hill, Bicester	Samples received on:	26/03/2015
Your job number:	30378	Samples instructed on:	02/04/2015
Your order number:		Analysis completed by:	10/04/2015
Report Issue Number:	1	Report issued on:	10/04/2015
Samples Analysed:	17 soil samples		

Signed _____

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed: _____

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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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Analytical Report Number: 15-69420

Project / Site name: Graven Hill, Bicester

Lab Sample Number	431532				431533		431534		431535		431536	
Sample Reference	HP703				HP703		HP704		HP704		HP707	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.20				0.50		0.20		0.40		0.20	
Date Sampled	25/03/2015				25/03/2015		25/03/2015		25/03/2015		25/03/2015	
Time Taken	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	21	28	31	23	31	23	31	31	
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.47	

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH	pH Units	N/A	MCERTS	7.4	7.1	6.8	7.4	6.5
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	1100	4000	1200	430	1100
Total Chloride	mg/kg	5	NONE	43	99	16	17	87
Organic Matter	%	0.1	MCERTS	1.4	5.9	4.4	1.5	4.8
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.8	3.4	2.6	0.9	2.8
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	11	4.0	2.4	2.8

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	< 1.60	< 1.60
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	17	15	13	15
Barium (aqua regia extractable)	mg/kg	1	MCERTS	72	110	110	96	110
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.6	2.1	2.0	2.1	2.0
Boron (water soluble)	mg/kg	0.2	MCERTS	1.2	1.2	4.3	1.7	4.0
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.3	0.4	0.2	0.3
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	48	61	51	58	51
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	16	12	15	20	15
Copper (aqua regia extractable)	mg/kg	1	MCERTS	31	41	40	26	38
Iron (aqua regia extractable)	mg/kg	40	MCERTS	50000	47000	44000	59000	44000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	18	290	41	18	44
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.9	1.3	1.9	1.2	1.6
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	42	41	45	49	42
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	58	98	75	89	76
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	77	130	140	120	130

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 Project / Site name: Graven Hill, Bicester

Lab Sample Number	431532			431533			431534			431535			431536		
Sample Reference	HP703			HP703			HP704			HP704			HP707		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.20			0.50			0.20			0.40			0.20		
Date Sampled	25/03/2015			25/03/2015			25/03/2015			25/03/2015			25/03/2015		
Time Taken	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status												

Monoaromatics

Compound	Units	Limit of detection	Accreditation Status	431532	431533	431534	431535	431536
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic > EC5 - EC6	Units	Limit of detection	Accreditation Status	431532	431533	431534	431535	431536
TPH-CWG - Aliphatic > EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic > EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic > EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic > EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic > EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	2.9	< 2.0
TPH-CWG - Aliphatic > EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	15	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	18	< 10

TPH-CWG - Aromatic > EC5 - EC7	Units	Limit of detection	Accreditation Status	431532	431533	431534	431535	431536
TPH-CWG - Aromatic > EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic > EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic > EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic > EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic > EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic > EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic > EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

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Project / Site name: Graven Hill, Bicester

Lab Sample Number	431537				431538		431539		431540		431541	
Sample Reference	SD01				SD02		SD03		SD04		SD05	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Date Sampled	25/03/2015				25/03/2015		25/03/2015		24/03/2015		24/03/2015	
Time Taken	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	44	53	53	53	50	42	42	42	42
Total mass of sample received	kg	0.001	NONE	1.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH	pH Units	N/A	MCERTS	7.3	7.3	7.2	7.3	7.2
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	1000	860	920	1700	1300
Total Chloride	mg/kg	5	NONE	500	780	210	210	120
Organic Matter	%	0.1	MCERTS	4.4	5.0	6.2	5.7	3.6
Total Organic Carbon (TOC)	%	0.1	MCERTS	2.5	2.9	3.6	3.3	2.1
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.17	0.19	0.23	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	1.2	1.4	0.69	0.82	< 0.10
Anthracene	mg/kg	0.1	MCERTS	0.22	0.29	0.18	0.15	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	6.9	6.6	4.7	2.1	< 0.10
Pyrene	mg/kg	0.1	MCERTS	6.3	5.9	4.5	2.1	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	3.9	3.6	3.2	1.1	< 0.10
Chrysene	mg/kg	0.05	MCERTS	4.2	4.0	2.9	1.2	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	5.1	6.5	5.2	1.3	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	3.5	2.3	2.2	1.0	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	5.6	4.9	4.4	1.2	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	3.2	3.3	2.9	0.65	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	0.32	0.41	0.24	0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	4.1	4.0	3.4	0.84	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	44.6	43.3	34.8	12.5	< 1.60
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	19	8.9	12	7.3
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	110	60	81	70
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.6	1.6	0.9	1.3	1.9
Boron (water soluble)	mg/kg	0.2	MCERTS	1.3	2.2	4.4	3.3	4.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.7	0.7	0.2	< 0.2	0.3
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	4.3	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	57	49	24	29	47
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	12	11	8.0	8.2	32
Copper (aqua regia extractable)	mg/kg	1	MCERTS	59	65	34	43	48
Iron (aqua regia extractable)	mg/kg	40	MCERTS	46000	47000	28000	35000	43000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	93	86	30	20	15
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	2.2	2.0	1.3	2.6	3.8
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	41	36	24	28	94
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	77	70	34	38	42
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	220	190	120	98	180

Analytical Report Number: 15-69420

Project / Site name: Graven Hill, Bicester

Lab Sample Number				431537	431538	431539	431540	431541
Sample Reference				SD01	SD02	SD03	SD04	SD05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/03/2015	25/03/2015	25/03/2015	24/03/2015	24/03/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	4.8	4.3	2.4	2.1	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	18	20	15	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	99	110	70	23	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	120	130	87	26	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.1	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	3.4	< 2.0	< 2.0	2.8	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	38	39	39	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	87	100	130	18	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	130	140	170	22	< 10

Analytical Report Number: 15-69420
Project / Site name: Graven Hill, Bicester

Lab Sample Number	431542				431543		431544		431545		431546	
Sample Reference	SD06				SD07		CP114		CP115		CP115	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	None Supplied				None Supplied		0.25		0.25		0.50	
Date Sampled	24/03/2015				24/03/2015		25/03/2015		25/03/2015		25/03/2015	
Time Taken	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	52	62	20	9.9	26				
Total mass of sample received	kg	0.001	NONE	2.0	2.0	1.4	2.0	2.0				

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

Parameter	Units	N/A	MCERTS	7.2	7.2	7.2	7.5	7.5
pH	pH Units		MCERTS	7.2	7.2	7.2	7.5	7.5
Total Cyanide	mg/kg	1	MCERTS	< 1	2	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	1500	1400	670	860	1200
Total Chloride	mg/kg	5	NONE	230	530	13	18	57
Organic Matter	%	0.1	MCERTS	6.0	7.3	1.3	2.1	2.7
Total Organic Carbon (TOC)	%	0.1	MCERTS	3.5	4.2	0.8	1.2	1.6
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0	3.1	3.0	4.2

Speciated PAHs

Parameter	Units	0.05	MCERTS	< 0.05	0.27	< 0.05	< 0.05	0.20
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.27	< 0.05	< 0.05	0.20
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	0.28	< 0.10	0.22	0.42
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.88	0.39	1.2	1.6
Pyrene	mg/kg	0.1	MCERTS	< 0.10	0.91	0.33	1.2	1.5
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	0.47	< 0.10	0.63	0.74
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.73	< 0.05	0.70	0.81
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.98	< 0.10	0.95	1.2
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.62	< 0.10	0.49	0.49
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	0.72	< 0.10	0.81	0.89
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	0.64	< 0.10	0.48	0.55
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.89	< 0.05	0.59	0.71

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	7.39	< 1.60	7.18	9.07
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Heavy Metals / Metalloids

Parameter	Units	1	MCERTS	7.6	12	8.1	9.1	9.2
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.6	12	8.1	9.1	9.2
Barium (aqua regia extractable)	mg/kg	1	MCERTS	53	140	110	130	110
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.0	1.0	1.2	0.4	1.3
Boron (water soluble)	mg/kg	0.2	MCERTS	1.5	2.5	0.9	0.4	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.4	5.8	< 0.2	< 0.2	0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	58	45	20	46
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	7.2	17	8.1	6.8	9.9
Copper (aqua regia extractable)	mg/kg	1	MCERTS	29	150	28	36	110
Iron (aqua regia extractable)	mg/kg	40	MCERTS	28000	34000	35000	24000	36000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	20	320	14	36	25
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.2	5.1	2.8	1.1	4.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	29	42	28	17	39
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	36	62	45	40	50
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	100	6800	82	74	240

Analytical Report Number: 15-69420

Project / Site name: Graven Hill, Bicester

Lab Sample Number				431542	431543	431544	431545	431546
Sample Reference				SD06	SD07	CP114	CP115	CP115
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	0.25	0.25	0.50
Date Sampled				24/03/2015	24/03/2015	25/03/2015	25/03/2015	25/03/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	4.2	< 2.0	4.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	78	< 8.0	19	13
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	20	1100	< 8.0	170	15
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	20	1200	< 10	190	28

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	17	< 10	15	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	230	< 10	170	24
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	240	< 10	190	24

Analytical Report Number: 15-69420

Project / Site name: Graven Hill, Bicester

Lab Sample Number				431547	431548		
Sample Reference				CP115	CP102		
Sample Number				None Supplied	None Supplied		
Depth (m)				1.00	0.25		
Date Sampled				25/03/2015	24/03/2015		
Time Taken				None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	27	< 0.1		
Moisture Content	%	N/A	NONE	20	20		
Total mass of sample received	kg	0.001	NONE	2.0	2.0		

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected		
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General Inorganics

pH	pH Units	N/A	MCERTS	7.4	7.3		
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1		
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	1200	470		
Total Chloride	mg/kg	5	NONE	87	19		
Organic Matter	%	0.1	MCERTS	2.2	0.8		
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.3	0.4		
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05		
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Phenanthrene	mg/kg	0.1	MCERTS	3.0	< 0.10		
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10		
Fluoranthene	mg/kg	0.1	MCERTS	3.6	< 0.10		
Pyrene	mg/kg	0.1	MCERTS	3.5	< 0.10		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	1.7	< 0.10		
Chrysene	mg/kg	0.05	MCERTS	1.3	< 0.05		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	1.7	< 0.10		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.60	< 0.10		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	1.2	< 0.10		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.81	< 0.10		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	0.11	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.89	< 0.05		

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	18.4	< 1.60		
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.9	9.5		
Barium (aqua regia extractable)	mg/kg	1	MCERTS	82	46		
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.0	1.2		
Boron (water soluble)	mg/kg	0.2	MCERTS	1.2	0.5		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26	31		
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	7.1	7.6		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	29	17		
Iron (aqua regia extractable)	mg/kg	40	MCERTS	28000	35000		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	20	11		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3		
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	2.3	1.6		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	23	25		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0		
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	43	46		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	92	86		

Analytical Report Number: 15-69420

Project / Site name: Graven Hill, Bicester

Lab Sample Number				431547	431548			
Sample Reference				CP115	CP102			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.00	0.25			
Date Sampled				25/03/2015	24/03/2015			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	7.5	< 1.0			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	830	3.7			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	4400	< 8.0			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	1900	< 8.0			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	7100	< 10			

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	250	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	1200	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	440	< 10			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	1900	< 10			



Analytical Report Number : 15-69420

Project / Site name: Graven Hill, 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 topsoil/loam 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 *
431532	HP703	None Supplied	0.20	Light brown clay.
431533	HP703	None Supplied	0.50	Brown topsoil and clay with vegetation.
431534	HP704	None Supplied	0.20	Brown clay and topsoil with vegetation.
431535	HP704	None Supplied	0.40	Light brown clay.
431536	HP707	None Supplied	0.20	Brown topsoil and clay with vegetation.
431537	SD01	None Supplied	None Supplied	Brown clay and topsoil with vegetation.
431538	SD02	None Supplied	None Supplied	Black clay and topsoil with vegetation.
431539	SD03	None Supplied	None Supplied	Black topsoil and clay with vegetation.
431540	SD04	None Supplied	None Supplied	Brown topsoil and clay with vegetation.
431541	SD05	None Supplied	None Supplied	Light brown topsoil and clay with vegetation.
431542	SD06	None Supplied	None Supplied	Light brown topsoil and clay with vegetation.
431543	SD07	None Supplied	None Supplied	Black topsoil with vegetation.
431544	CP114	None Supplied	0.25	Light brown clay.
431545	CP115	None Supplied	0.25	Brown sandy topsoil with gravel and vegetation.
431546	CP115	None Supplied	0.50	Brown clay and topsoil with vegetation.
431547	CP115	None Supplied	1.00	Brown clay and sand with stones.
431548	CP102	None Supplied	0.25	Light brown clay with vegetation.

Analytical Report Number : 15-69420

Project / Site name: Graven Hill, 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
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Chloride in soil	Determination of acid soluble chloride in soil by extraction with nitric acid, addition of silver nitrate followed by titration against thiocyanate.	In-house method	L075-PL	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Speciated EPA-16 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	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate in soil by extraction in water followed by reaction with sodium salicylate in the presence of sulphuric acid. The reaction product is nitrosalicylic acid, which forms a yellow chromophore upon the addition of alkali, the intensity of which is measured by	In-house method based on Polish Standard Method PN-82/C-04579.08.	L078-PL	D	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 300C.

Iss No 15-69420-1

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The results included within the report are representative of the samples submitted for analysis.

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David Owen

Geotechnical Engineering Ltd
Centurion House
Olympus Park
Quedgeley
Gloucester
GL2 4NF

t: 01452 527 743
f: 01452 729 314
e: david.owen@geoeng.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 15-69419

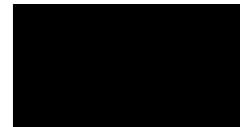
Project / Site name:	Graven Hill , Bicester	Samples received on:	27/03/2015
Your job number:	30378	Samples instructed on:	02/04/2015
Your order number:		Analysis completed by:	09/04/2015
Report Issue Number:	1	Report issued on:	09/04/2015
Samples Analysed:	2 soil samples		

Signed



Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:



Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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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Analytical Report Number: 15-69419

Project / Site name: Graven Hill , Bicester

Lab Sample Number				431531	431549			
Sample Reference				CP115	CP115			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.50	2.20			
Date Sampled				26/03/2015	26/03/2015			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	22	25			
Total mass of sample received	kg	0.001	NONE	0.94	0.94			

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected			
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General Inorganics

pH	pH Units	N/A	MCERTS	7.3	6.2			
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1			
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	1600	100000			
Total Chloride	mg/kg	5	NONE	85	320			
Organic Matter	%	0.1	MCERTS	2.0	2.2			
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.2	1.2			
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0			

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60			
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.8	5.9			
Barium (aqua regia extractable)	mg/kg	1	MCERTS	39	29			
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.0	1.3			
Boron (water soluble)	mg/kg	0.2	MCERTS	1.8	1.2			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.0	0.9			
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	48	36			
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	22	5.0			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	40	38			
Iron (aqua regia extractable)	mg/kg	40	MCERTS	56000	25000			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	28	22			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	5.0	4.6			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	73	34			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	50	42			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	140	51			

Analytical Report Number: 15-69419

Project / Site name: Graven Hill , Bicester

Lab Sample Number				431531	431549			
Sample Reference				CP115	CP115			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.50	2.20			
Date Sampled				26/03/2015	26/03/2015			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	12	2.4			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	55	9.8			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	31	9.4			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	98	22			

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	2.9	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	23	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	11	< 10			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	36	< 10			



Analytical Report Number : 15-69419

Project / Site name: Graven Hill , 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 topsoil/loam 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 *
431531	CP115	None Supplied	1.50	Light brown clay.
431549	CP115	None Supplied	2.20	Brown clay.



4041



Environmental Science

Analytical Report Number : 15-69419

Project / Site name: Graven Hill , 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
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L0735-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Chloride in soil	Determination of acid soluble chloride in soil by extraction with nitric acid, addition of silver nitrate followed by titration against thiocyanate.	In-house method	L075-PL	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Speciated EPA-16 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	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS



Analytical Report Number : 15-69419

Project / Site name: Graven Hill , 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
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate in soil by extraction in water followed by reaction with sodium salicylate in the presence of sulphuric acid. The reaction product is nitrosalicylic acid, which forms a yellow chromophore upon the addition of alkali, the intensity of which is measured by spectrophotometry.	In-house method based on Polish Standard Method PN-82/C-04579.08.	L078-PL	D	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.



David Owen
Geotechnical Engineering Ltd
Centurion House
Olympus Park
Quedgeley
Gloucester
GL2 4NF

t: 01452 527 743
f: 01452 729 314
e: david.owen@geoeng.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 15-69338

Project / Site name:	Graven Hill , Bicester	Samples received on:	23/03/2015
Your job number:	30378	Samples instructed on:	01/04/2015
Your order number:		Analysis completed by:	08/04/2015
Report Issue Number:	1	Report issued on:	08/04/2015
Samples Analysed:	9 soil samples		

Signed: 

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed: 

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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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Samples were received with no indication of date sampled. The recommended holding time prior to analysis may have been exceeded. Results may not be valid should be interpreted with care.



Environmental Science

Analytical Report Number: 15-69338

Project / Site name: Graven Hill , Bicester

Lab Sample Number			431158	431159	431160	431161	431162
Sample Reference			CP101	CP101	CP109	CP109	CC401
Sample Number			None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)			0.25	0.50	0.25	0.50	0.40
Date Sampled			19/03/2015	19/03/2015	Deviating	Deviating	19/03/2015
Time Taken			None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	19	20	27	20
Total mass of sample received	kg	0.001	NONE	1.6	1.7	1.8	1.7

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH	pH Units	N/A	MCERTS	-	-	-	-	8.5
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	-
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	310	520	680	600	-
Total Chloride	mg/kg	5	NONE	27	34	37	30	-
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0	3.8	4.3	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	0.29
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	4.7
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	3.6
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	17
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	9.0
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	44
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	36
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	19
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	19
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	26
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	11
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	23
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	13
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	1.6
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	15

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	< 1.60	242
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.0	8.9	7.5	8.3	18
Barium (aqua regia extractable)	mg/kg	1	MCERTS	59	74	73	73	290
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	1.6	1.7	1.6	2.8
Boron (water soluble)	mg/kg	0.2	MCERTS	1.0	1.3	2.3	0.8	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.2	0.4
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	35	50	64	58	70
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	6.6	7.6	11	13	11
Copper (aqua regia extractable)	mg/kg	1	MCERTS	18	20	34	34	67
Iron (aqua regia extractable)	mg/kg	40	MCERTS	43000	40000	47000	55000	54000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	12	19	16	36
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.5	1.8	2.0	2.7	1.1
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19	25	43	42	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	49	64	57	56	120
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	69	93	120	110	93



Environmental Science

Analytical Report Number: 15-69338

Project / Site name: Graven Hill , Bicester

Lab Sample Number	431158		431159		431160		431161		431162	
Sample Reference	CP101		CP101		CP109		CP109		CC401	
Sample Number	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.25		0.50		0.25		0.50		0.40	
Date Sampled	19/03/2015		19/03/2015		Deviating		Deviating		19/03/2015	
Time Taken	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status							

Monoaromatics

Parameter	Units	Limit of detection	Accreditation Status	431158	431159	431160	431161	431162
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

Parameter	Units	Limit of detection	Accreditation Status	431158	431159	431160	431161	431162
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	4.3
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	25
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	61
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	13	< 8.0	< 8.0	110
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	13	< 10	< 10	200

Parameter	Units	Limit of detection	Accreditation Status	431158	431159	431160	431161	431162
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	84
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	480
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	1000
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	1600



Environmental Science

Analytical Report Number: 15-69338

Project / Site name: Graven Hill , Bicester

Lab Sample Number	431163				431164				431165				431166			
Sample Reference	CC401				CC401				CC405				CC409			
Sample Number	None Supplied				None Supplied				None Supplied				None Supplied			
Depth (m)	0.70				0.90				0.40				0.90			
Date Sampled	19/03/2015				19/03/2015				20/03/2015				19/03/2015			
Time Taken	None Supplied				None Supplied				None Supplied				None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status													
Stone Content	%	0.1	NONE	28	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	7.5	16	6.9	13									
Total mass of sample received	kg	0.001	NONE	1.7	1.6	1.7	1.4									

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected

General Inorganics

pH	pH Units	N/A	MCERTS	8.4	8.0	8.1	7.8
Total Cyanide	mg/kg	1	MCERTS	-	-	-	-
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	-	-	-	-
Total Chloride	mg/kg	5	NONE	-	-	-	-
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	0.23	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	0.19	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	1.1	< 0.10	0.54	< 0.10
Anthracene	mg/kg	0.1	MCERTS	0.36	< 0.10	0.13	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	2.0	< 0.10	0.46	< 0.10
Pyrene	mg/kg	0.1	MCERTS	1.7	< 0.10	0.36	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.86	< 0.10	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	0.74	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.77	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.49	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.75	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.43	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.58	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	10.2	< 1.60	< 1.60	< 1.60

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	17	14	17
Barium (aqua regia extractable)	mg/kg	1	MCERTS	290	120	89	100
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	4.0	1.9	0.6	1.8
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	2.5	< 0.2	1.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.3
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	94	47	9.9	46
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	24	17	9.7	16
Copper (aqua regia extractable)	mg/kg	1	MCERTS	100	35	31	37
Iron (aqua regia extractable)	mg/kg	40	MCERTS	77000	65000	30000	47000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	43	26	4.7	31
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	3.0	1.1	1.2	1.2
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	63	43	12	42
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	220	79	36	74
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	130	110	25	100

Analytical Report Number: 15-69338
Project / Site name: Graven Hill , Bicester

Lab Sample Number	431163	431164	431165	431166	
Sample Reference	CC401	CC401	CC405	CC409	
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)	0.70	0.90	0.40	0.90	
Date Sampled	19/03/2015	19/03/2015	20/03/2015	19/03/2015	
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Monoaromatics					
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	5.1	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	5.8	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	12	9.5	12	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	12	20	12	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	3.3	< 2.0	3.2	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	12	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	28	< 10	14	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	42	< 10	17	< 10



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Environmental Science

Analytical Report Number : 15-69338**Project / Site name: Graven Hill , 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 topsoil/loam 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 *
431158	CP101	None Supplied	0.25	Light brown clay.
431159	CP101	None Supplied	0.50	Light brown clay.
431160	CP109	None Supplied	0.25	Light brown clay.
431161	CP109	None Supplied	0.50	Light brown clay.
431162	CC401	None Supplied	0.40	Brown sandy topsoil with rubble and brick.
431163	CC401	None Supplied	0.70	Black topsoil and gravel with clinker and stones
431164	CC401	None Supplied	0.90	Brown clay and topsoil.
431165	CC405	None Supplied	0.40	Light brown sandy clay with gravel.
431166	CC409	None Supplied	0.90	Brown clay and topsoil.



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Environmental Science

Analytical Report Number : 15-69338

Project / Site name: Graven Hill , 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
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Chloride in soil	Determination of acid soluble chloride in soil by extraction with nitric acid, addition of silver nitrate followed by titration against thiocyanate.	In-house method	L075-PL	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Speciated EPA-16 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	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate in soil by extraction in water followed by reaction with sodium salicylate in the presence of sulphuric acid. The reaction product is nitrosalicylic acid, which forms a yellow chromophore upon the addition of alkali, the intensity of which is measured by spectrophotometry.	In-house method based on Polish Standard Method PN-82/C-04579.08.	L078-PL	D	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.



David Owen
Geotechnical Engineering Ltd
Centurion House
Olympus Park
Quedgeley
Gloucester
GL2 4NF

t: 01452 527 743
f: 01452 729 314
e: david.owen@geoeng.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 15-68846

Project / Site name:	Graven Hill, Bicester	Samples received on:	13/03/2015
Your job number:	30378	Samples instructed on:	20/03/2015
Your order number:		Analysis completed by:	27/03/2015
Report Issue Number:	1	Report issued on:	27/03/2015
Samples Analysed:	18 soil samples		

Signed: _____

Neil Donovan
Environmental Forensics Manager
For & on behalf of i2 Analytical Ltd.

Signed: _____

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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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Environmental Science

Analytical Report Number: 15-68846

Project / Site name: Graven Hill, Bicester

Lab Sample Number	428544		428545		428546		428547		428548		
Sample Reference	TP503		TP503		TP506		TP507		TP507		
Sample Number	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied		
Depth (m)	0.20		0.60		0.10		0.20		0.80		
Date Sampled	11/03/2015		11/03/2015		12/03/2015		12/03/2015		12/03/2015		
Time Taken	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status								
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	32	18	23	32	32	13	13	
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0	2.0	2.0	

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected

General Inorganics

pH	pH Units	N/A	MCERTS	7.1	7.1	6.9	6.3	7.0
Organic Matter	%	0.1	MCERTS	4.9	0.8	2.2	5.1	0.1
Total Organic Carbon (TOC)	%	0.1	MCERTS	2.8	0.4	1.3	2.9	< 0.1

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	< 1.60	< 1.60

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.8	8.4	11	6.6	11
Barium (aqua regia extractable)	mg/kg	1	MCERTS	54	49	64	40	42
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.9	1.1	1.1	0.6	0.8
Boron (water soluble)	mg/kg	0.2	MCERTS	3.1	< 0.2	1.0	1.6	3.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.5	< 0.2	0.4	0.3	0.3
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	39	39	34	26	27
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	6.6	7.4	8.3	4.7	8.5
Copper (aqua regia extractable)	mg/kg	1	MCERTS	27	18	19	20	18
Iron (aqua regia extractable)	mg/kg	40	MCERTS	27000	35000	38000	20000	30000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	37	14	21	24	11
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.8	1.1	1.4	0.8	0.9
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	24	26	13	29
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	42	44	40	29	33
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	83	100	90	50



Analytical Report Number: 15-68846
 Project / Site name: Graven Hill, Bicester

Lab Sample Number	428544		428545		428546		428547		428548	
Sample Reference	TP503		TP503		TP506		TP507		TP507	
Sample Number	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.20		0.60		0.10		0.20		0.80	
Date Sampled	11/03/2015		11/03/2015		12/03/2015		12/03/2015		12/03/2015	
Time Taken	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status							

Monoaromatics										
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	11	< 8.0	< 8.0	< 8.0	12	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	11	< 10	< 10	< 10	12	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10	< 10	< 10



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Environmental Science

Analytical Report Number: 15-68846

Project / Site name: Graven Hill, Bicester

Lab Sample Number	428544				428545		428546		428547		428548	
Sample Reference	TP503				TP503		TP506		TP507		TP507	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.20				0.60		0.10		0.20		0.80	
Date Sampled	11/03/2015				11/03/2015		12/03/2015		12/03/2015		12/03/2015	
Time Taken	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									
VOCs												
Chloromethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Bromomethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Vinyl Chloride	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trichlorofluoromethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
2,2-Dichloropropane	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloromethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloropropene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Benzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloromethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromomethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Bromodichloromethane	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloroethene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Chlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-Xylene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Styrene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Tribromomethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
o-Xylene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropylbenzene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Bromobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
2-Chlorotoluene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
4-Chlorotoluene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
tert-Butylbenzene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
sec-Butylbenzene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Butylbenzene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Hexachlorobutadiene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichlorobenzene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	



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Environmental Science

Analytical Report Number: 15-68846

Project / Site name: Graven Hill, Bicester

Lab Sample Number	428544	428545	428546	428547	428548
Sample Reference	TP503	TP503	TP506	TP507	TP507
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.20	0.60	0.10	0.20	0.80
Date Sampled	11/03/2015	11/03/2015	12/03/2015	12/03/2015	12/03/2015
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		



Environmental Science

Analytical Report Number: 15-68846

Project / Site name: Graven Hill, Bicester

Lab Sample Number	428549		428550		428551		428552		428553		
Sample Reference	TP509		TP510		TP510		TP528		TP528		
Sample Number	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied		
Depth (m)	0.60		0.20		0.60		0.40		1.10		
Date Sampled	12/03/2015		12/03/2015		12/03/2015		11/03/2015		11/03/2015		
Time Taken	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status								
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	14	21	16	7.4	21			
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0			

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected

General Inorganics

pH	pH Units	N/A	MCERTS	7.3	6.0	6.9	8.5	6.9
Organic Matter	%	0.1	MCERTS	0.5	2.3	0.4	1.2	1.2
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.3	1.3	0.2	0.7	0.7

Speciated PAHs

Compound	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	4.4	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.82	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	8.9	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	7.4	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	3.5	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	3.3	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	3.9	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	2.0	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	3.2	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	1.7	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	2.3	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	41.4	< 1.60

Heavy Metals / Metalloids

Compound	mg/kg	1	MCERTS	13	7.7	12	6.8	13
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	7.7	12	6.8	13
Barium (aqua regia extractable)	mg/kg	1	MCERTS	98	42	88	110	73
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.0	0.6	1.0	1.5	1.6
Boron (water soluble)	mg/kg	0.2	MCERTS	2.0	2.0	< 0.2	< 0.2	1.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.7	0.3	0.3	0.3	0.3
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	33	29	33	13	58
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	20	5.7	12	6.7	18
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	25	19	20	27
Iron (aqua regia extractable)	mg/kg	40	MCERTS	44000	22000	37000	21000	53000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	17	27	14	13	20
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.0	0.9	0.7	1.7	1.0
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	31	20	28	17	44
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	42	29	42	36	66
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	70	88	66	45	120



Environmental Science

Analytical Report Number: 15-68846

Project / Site name: Graven Hill, Bicester

Lab Sample Number	428549	428550	428551	428552	428553			
Sample Reference	TP509	TP510	TP510	TP528	TP528			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.60	0.20	0.60	0.40	1.10			
Date Sampled	12/03/2015	12/03/2015	12/03/2015	11/03/2015	11/03/2015			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	2.7	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	9.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	39	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	50	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	4.6	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	67	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	94	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	170	< 10



Environmental Science

Analytical Report Number: 15-68846
Project / Site name: Graven Hill, Bicester

Lab Sample Number					428549	428550	428551	428552	428553
Sample Reference					TP509	TP510	TP510	TP528	TP528
Sample Number					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)					0.60	0.20	0.60	0.40	1.10
Date Sampled					12/03/2015	12/03/2015	12/03/2015	11/03/2015	11/03/2015
Time Taken					None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status						
VOCs									
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0



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Environmental Science

Analytical Report Number: 15-68846
 Project / Site name: Graven Hill, Bicester

Lab Sample Number	428549	428550	428551	428552	428553
Sample Reference	TP509	TP510	TP510	TP528	TP528
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.60	0.20	0.60	0.40	1.10
Date Sampled	12/03/2015	12/03/2015	12/03/2015	11/03/2015	11/03/2015
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		



Environmental Science

Analytical Report Number: 15-68846

Project / Site name: Graven Hill, Bicester

Lab Sample Number	428554		428555		428556		428557		428558	
Sample Reference	TP544		TP544		TP546		TP549		TP552	
Sample Number	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.60		1.20		0.30		0.30		0.20	
Date Sampled	12/03/2015		12/03/2015		12/03/2015		11/03/2015		11/03/2015	
Time Taken	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status							
Stone Content	%	0.1	NONE	< 0.1	< 0.1	17	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	12	18	24	21	29		
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0		

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected

General Inorganics

pH	pH Units	N/A	MCERTS	7.7	7.2	7.3	7.3	7.4
Organic Matter	%	0.1	MCERTS	0.2	< 0.1	2.1	1.8	4.9
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.1	< 0.1	1.2	1.0	2.8

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	2.0	2.6
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.38	0.59
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	5.0	7.0
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	4.1	6.0
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	2.5	3.6
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	2.5	3.2
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	3.7	4.7
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	1.4	1.7
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	2.7	3.6
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	1.7	1.9
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.21	0.28
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	2.1	2.5
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	28.2	37.6

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	7.0	9.7	8.4	8.4
Barium (aqua regia extractable)	mg/kg	1	MCERTS	43	40	49	61	78
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.0	0.9	0.9	1.0	1.2
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	3.7	2.5	2.6	2.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.4	0.4	0.7	0.5
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	38	51	37	59	59
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	9.7	8.6	7.2	9.5	11
Copper (aqua regia extractable)	mg/kg	1	MCERTS	23	33	25	49	72
Iron (aqua regia extractable)	mg/kg	40	MCERTS	37000	36000	37000	37000	41000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	13	13	25	27	29
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.1	2.4	1.7	4.2	3.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	49	46	24	37	38
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	42	35	38	48	44
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	74	90	92	120	130

Analytical Report Number: 15-68846
 Project / Site name: Graven Hill, Bicester

Lab Sample Number	428554	428555	428556	428557	428558			
Sample Reference	TP544	TP544	TP546	TP549	TP552			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.60	1.20	0.30	0.30	0.20			
Date Sampled	12/03/2015	12/03/2015	12/03/2015	11/03/2015	11/03/2015			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	22	26	30
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	22	26	30
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	2.7	2.5
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	26	30
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	52	44
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	81	77



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Analytical Report Number: 15-68846

Project / Site name: Graven Hill, Bicester

Lab Sample Number	428554				428555		428556		428557		428558	
Sample Reference	TP544				TP544		TP546		TP549		TP552	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.60				1.20		0.30		0.30		0.20	
Date Sampled	12/03/2015				12/03/2015		12/03/2015		11/03/2015		11/03/2015	
Time Taken	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									
VOCs												
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0			



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Environmental Science

Analytical Report Number: 15-68846

Project / Site name: Graven Hill, Bicester

Lab Sample Number	428554	428555	428556	428557	428558
Sample Reference	TP544	TP544	TP546	TP549	TP552
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.60	1.20	0.30	0.30	0.20
Date Sampled	12/03/2015	12/03/2015	12/03/2015	11/03/2015	11/03/2015
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		



Environmental Science

Analytical Report Number: 15-68846

Project / Site name: Graven Hill, Bicester

Lab Sample Number	428559		428560		428561			
Sample Reference	TP552		TP552		RC303			
Sample Number	None Supplied		None Supplied		None Supplied			
Depth (m)	0.50		1.10		0.30			
Date Sampled	11/03/2015		11/03/2015		12/03/2015			
Time Taken	None Supplied		None Supplied		None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	28	19	21		
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0		

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected		

General Inorganics

pH	pH Units	N/A	MCERTS	6.2	6.7	7.0		
Organic Matter	%	0.1	MCERTS	4.5	0.5	1.7		
Total Organic Carbon (TOC)	%	0.1	MCERTS	2.6	0.3	1.0		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Phenanthrene	mg/kg	0.1	MCERTS	2.0	< 0.10	< 0.10		
Anthracene	mg/kg	0.1	MCERTS	0.51	< 0.10	< 0.10		
Fluoranthene	mg/kg	0.1	MCERTS	4.6	< 0.10	< 0.10		
Pyrene	mg/kg	0.1	MCERTS	4.1	< 0.10	< 0.10		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	1.9	< 0.10	< 0.10		
Chrysene	mg/kg	0.05	MCERTS	1.8	< 0.05	< 0.05		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	2.0	< 0.10	< 0.10		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	1.1	< 0.10	< 0.10		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	2.0	< 0.10	< 0.10		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.96	< 0.10	< 0.10		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.2	< 0.05	< 0.05		
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05		

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	22.1	< 1.60	< 1.60		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.7	9.9	11		
Barium (aqua regia extractable)	mg/kg	1	MCERTS	73	53	69		
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	1.2	1.5		
Boron (water soluble)	mg/kg	0.2	MCERTS	4.3	0.6	1.0		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.6	0.7	0.5		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	47	55	56		
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	6.0	11	13		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	38	33	26		
Iron (aqua regia extractable)	mg/kg	40	MCERTS	29000	43000	41000		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	33	17	23		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.0	5.5	0.9		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	28	38	40		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	42	45	63		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	110	93		

Analytical Report Number: 15-68846
 Project / Site name: Graven Hill, Bicester

Lab Sample Number	428559	428560	428561		
Sample Reference	TP552	TP552	RC303		
Sample Number	None Supplied	None Supplied	None Supplied		
Depth (m)	0.50	1.10	0.30		
Date Sampled	11/03/2015	11/03/2015	12/03/2015		
Time Taken	None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Monoaromatics					
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	25	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	43	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	68	< 10



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Environmental Science

Analytical Report Number: 15-68846

Project / Site name: Graven Hill, Bicester

Lab Sample Number				428559	428560	428561		
Sample Reference				TP552	TP552	RC303		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.50	1.10	0.30		
Date Sampled				11/03/2015	11/03/2015	12/03/2015		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	-		
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	-		
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-		
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	-		
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	-		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	-		
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	-		
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	-		
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	-		
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	-		
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	-		
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-		
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-		
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	-		
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	-		



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Environmental Science

Analytical Report Number: 15-68846
 Project / Site name: Graven Hill, Bicester

Lab Sample Number				428559	428560	428561		
Sample Reference				TP552	TP552	RC303		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.50	1.10	0.30		
Date Sampled				11/03/2015	11/03/2015	12/03/2015		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					



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Environmental Science

Analytical Report Number : 15-68846**Project / Site name: Graven Hill, 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 topsoil/loam 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 *
428544	TP503	None Supplied	0.20	Brown topsoil and clay with vegetation.
428545	TP503	None Supplied	0.60	Light brown clay and sand.
428546	TP506	None Supplied	0.10	Brown clay and topsoil with vegetation.
428547	TP507	None Supplied	0.20	Brown topsoil and clay with vegetation.
428548	TP507	None Supplied	0.80	Light brown clay and sand.
428549	TP509	None Supplied	0.60	Light brown clay and sand with vegetation.
428550	TP510	None Supplied	0.20	Brown topsoil and clay with vegetation.
428551	TP510	None Supplied	0.60	Light brown clay and sand with vegetation.
428552	TP528	None Supplied	0.40	Black sandy gravel.**
428553	TP528	None Supplied	1.10	Grey clay and sand.
428554	TP544	None Supplied	0.60	Light brown clay and sand.
428555	TP544	None Supplied	1.20	Light grey clay and sand.
428556	TP546	None Supplied	0.30	Brown clay and sand with vegetation.
428557	TP549	None Supplied	0.30	Grey clay and sand with vegetation.
428558	TP552	None Supplied	0.20	Brown clay and topsoil with gravel and vegetation.
428559	TP552	None Supplied	0.50	Brown clay and topsoil with vegetation.
428560	TP552	None Supplied	1.10	Grey clay and sand with vegetation.
428561	RC303	None Supplied	0.30	Grey clay and sand.

**Non MCERTS matrix



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Environmental Science

Analytical Report Number : 15-68846

Project / Site name: Graven Hill, 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
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Speciated EPA-16 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	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS

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.



David Owen

Geotechnical Engineering Ltd
Centurion House
Olympus Park
Quedgeley
Gloucester
GL2 4NF

t: 01452 527 743
f: 01452 729 314
e: david.owen@geoeng.co.uk

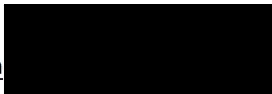
i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 15-68364

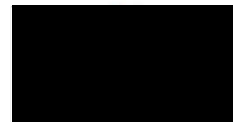
Project / Site name:	Graven Hill, Bicester	Samples received on:	11/03/2015
Your job number:	30378	Samples instructed on:	12/03/2015
Your order number:		Analysis completed by:	19/03/2015
Report Issue Number:	1	Report issued on:	19/03/2015
Samples Analysed:	16 soil samples		

Sign



Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:



Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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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Analytical Report Number: 15-68364

Project / Site name: Graven Hill, Bicester

Lab Sample Number				425164	425165	425166	425167	425168
Sample Reference				TP518	TP518	TP520	TP520	TP529
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	1.20	0.25	1.10	0.50
Date Sampled				02/03/2015	02/03/2015	02/03/2015	02/03/2015	10/03/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	24	16	26	18	8.1
Total mass of sample received	kg	0.001	NONE	1.1	1.1	1.4	2.0	2.0

General Inorganics

pH	pH Units	N/A	MCERTS	7.8	7.8	8.0	7.9	7.8

Speciated PAHs

	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	0.67
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	0.43
Fluorene	mg/kg	0.1	MCERTS	1.2	< 0.10	0.85	0.60	22
Phenanthrene	mg/kg	0.1	MCERTS	0.20	< 0.10	0.17	0.12	4.9
Anthracene	mg/kg	0.1	MCERTS	1.8	< 0.10	1.3	0.57	28
Fluoranthene	mg/kg	0.1	MCERTS	1.3	< 0.10	1.0	0.45	21
Pyrene	mg/kg	0.1	MCERTS	1.2	< 0.10	0.66	0.24	13
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.2	< 0.05	0.82	0.23	8.6
Chrysene	mg/kg	0.1	MCERTS	1.7	< 0.10	1.2	0.23	14
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.92	< 0.10	0.48	0.16	6.3
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	1.3	< 0.10	0.66	0.22	11
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.60	< 0.10	0.44	< 0.10	4.9
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.21	< 0.10	< 0.10	< 0.10	1.7
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.72	< 0.05	0.47	< 0.05	5.6
Benzo(ghi)perylene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	0.99
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	0.99

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	12.2	< 1.60	8.12	2.82	141

Analytical Report Number: 15-68364

Project / Site name: Graven Hill, Bicester

Lab Sample Number	425164	425165	425166	425167	425168
Sample Reference	TP518	TP518	TP520	TP520	TP529
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.25	1.20	0.25	1.10	0.50
Date Sampled	02/03/2015	02/03/2015	02/03/2015	02/03/2015	10/03/2015
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Element	Unit	Limit	MCERTS	425164	425165	425166	425167	425168
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	19	19	16	5.8
Barium (aqua regia extractable)	mg/kg	1	MCERTS	91	44	150	50	39
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.8	1.3	2.1	1.4	0.4
Boron (water soluble)	mg/kg	0.2	MCERTS	1.8	1.4	2.6	1.7	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2	< 0.2	0.3	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	45	34	59	35	5.0
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	12	14	14	10	2.6
Copper (aqua regia extractable)	mg/kg	1	MCERTS	36	27	72	29	11
Iron (aqua regia extractable)	mg/kg	40	MCERTS	52000	53000	55000	48000	8200
Lead (aqua regia extractable)	mg/kg	1	MCERTS	61	15	74	17	24
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.8	< 0.3	1.2	0.4	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	39	42	43	33	6.6
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	3.4
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	73	57	93	60	15
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	240	71	190	71	19

Monoaromatics

Compound	Unit	Limit	MCERTS	425164	425165	425166	425167	425168
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	2.8
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	16
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	41
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	60

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	12
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	210
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	11	< 10	< 10	< 10	240
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	11	< 10	< 10	< 10	470

Analytical Report Number: 15-68364

Project / Site name: Graven Hill, Bicester

Lab Sample Number	425169				425170		425171		425172		425173	
Sample Reference	TP529				TP515		TP526		TP532A		TP539	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	1.20				0.05		0.20		0.15		0.30	
Date Sampled	10/03/2015				06/03/2015		10/03/2015		05/03/2015		06/03/2015	
Time Taken	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	20	23	25	20	22				
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	

General Inorganics

pH	pH Units	N/A	MCERTS	7.9	7.8	7.6	7.5	7.2

Speciated PAHs

Compound	mg/kg	Limit of detection	Accreditation Status	< 0.05	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Naphthalene	0.05	0.05	MCERTS	< 0.05	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	0.1	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	0.1	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	0.1	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	0.1	0.1	MCERTS	< 0.10	< 0.10	0.39	< 0.10	< 0.10	0.44	< 0.10
Anthracene	0.1	0.1	MCERTS	< 0.10	< 0.10	0.18	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	0.1	0.1	MCERTS	< 0.10	< 0.10	0.79	< 0.10	< 0.10	0.80	< 0.10
Pyrene	0.1	0.1	MCERTS	< 0.10	< 0.10	0.59	< 0.10	< 0.10	0.63	< 0.10
Benzo(a)anthracene	0.1	0.1	MCERTS	< 0.10	< 0.10	0.49	< 0.10	< 0.10	0.52	< 0.10
Chrysene	0.05	0.05	MCERTS	< 0.05	< 0.05	0.45	< 0.05	< 0.05	0.48	< 0.05
Benzo(b)fluoranthene	0.1	0.1	MCERTS	< 0.10	< 0.10	0.49	< 0.10	< 0.10	0.62	< 0.10
Benzo(k)fluoranthene	0.1	0.1	MCERTS	< 0.10	< 0.10	0.30	< 0.10	< 0.10	0.29	< 0.10
Benzo(a)pyrene	0.1	0.1	MCERTS	< 0.10	< 0.10	0.40	< 0.10	< 0.10	0.47	< 0.10
Indeno(1,2,3-cd)pyrene	0.1	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	0.1	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	0.05	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	0.05	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	4.08	< 1.60	4.25

Analytical Report Number: 15-68364

Project / Site name: Graven Hill, Bicester

Lab Sample Number				425169	425170	425171	425172	425173
Sample Reference				TP529	TP515	TP526	TP532A	TP539
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.20	0.05	0.20	0.15	0.30
Date Sampled				10/03/2015	06/03/2015	10/03/2015	05/03/2015	06/03/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.6	9.9	9.0	6.2	16
Barium (aqua regia extractable)	mg/kg	1	MCERTS	76	81	81	49	100
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.7	1.6	1.3	1.6	1.6
Boron (water soluble)	mg/kg	0.2	MCERTS	1.4	2.7	2.7	1.2	1.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.3	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	66	51	37	60	42
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	11	15	9.1	13	11
Copper (aqua regia extractable)	mg/kg	1	MCERTS	41	40	29	36	34
Iron (aqua regia extractable)	mg/kg	40	MCERTS	44000	40000	32000	39000	46000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	15	25	34	13	66
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	2.9	3.5	2.2	3.1	1.4
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	55	45	34	55	33
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	59	53	41	46	61
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	120	110	96	110	95

Monoaromatics

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

Analytical Report Number: 15-68364

Project / Site name: Graven Hill, Bicester

Lab Sample Number	425174				425175		425176		425177		425178	
Sample Reference	TP540A				TP540A		TP541		TP541		TP501	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.25				1.00		0.35		1.00		0.30	
Date Sampled	04/03/2015				04/03/2015		04/03/2015		04/03/2015		04/03/2015	
Time Taken	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	27	19	39	21	17				
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	

General Inorganics

pH	pH Units	N/A	MCERTS	7.4	7.4	7.0	7.5	7.7

Speciated PAHs

Compound	mg/kg	Limit of detection	Accreditation Status	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	< 1.60	< 1.60

Analytical Report Number: 15-68364

Project / Site name: Graven Hill, Bicester

Lab Sample Number				425174	425175	425176	425177	425178
Sample Reference				TP540A	TP540A	TP541	TP541	TP501
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	1.00	0.35	1.00	0.30
Date Sampled				04/03/2015	04/03/2015	04/03/2015	04/03/2015	04/03/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	7.5	22	25	11
Barium (aqua regia extractable)	mg/kg	1	MCERTS	65	32	85	45	57
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.6	1.2	1.9	1.5	1.2
Boron (water soluble)	mg/kg	0.2	MCERTS	2.7	2.6	4.3	1.9	2.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.3	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	47	39	43	32	29
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	11	14	16	15	10
Copper (aqua regia extractable)	mg/kg	1	MCERTS	32	29	63	36	18
Iron (aqua regia extractable)	mg/kg	40	MCERTS	46000	39000	58000	66000	37000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	30	15	130	29	20
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.5	1.2	1.8	0.5	1.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	37	38	53	51	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	57	34	76	61	42
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	100	61	180	110	65

Monoaromatics

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	14	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	14	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

Analytical Report Number: 15-68364

Project / Site name: Graven Hill, Bicester

Lab Sample Number				425179				
Sample Reference				TP502				
Sample Number				None Supplied				
Depth (m)				0.30				
Date Sampled				05/03/2015				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	20				
Total mass of sample received	kg	0.001	NONE	2.0				

General Inorganics

pH	pH Units	N/A	MCERTS	7.6				
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60				
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Analytical Report Number: 15-68364

Project / Site name: Graven Hill, Bicester

Lab Sample Number	425179			
Sample Reference	TP502			
Sample Number	None Supplied			
Depth (m)	0.30			
Date Sampled	05/03/2015			
Time Taken	None Supplied			

Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.0			
Barium (aqua regia extractable)	mg/kg	1	MCERTS	58			
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2			
Boron (water soluble)	mg/kg	0.2	MCERTS	1.2			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2			
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30			
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	12			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	21			
Iron (aqua regia extractable)	mg/kg	40	MCERTS	35000			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	21			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3			
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	2.1			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	27			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0			
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	39			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	82			

Monoaromatics

Benzene	µg/kg	1	MCERTS	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0			
p & m-xylene	µg/kg	1	MCERTS	< 1.0			
o-xylene	µg/kg	1	MCERTS	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0			

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10			

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10			

Analytical Report Number : 15-68364

Project / Site name: Graven Hill, 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 topsoil/loam 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 *
425164	TP518	None Supplied	0.25	Brown clay and sand with gravel.
425165	TP518	None Supplied	1.20	Brown clay and sand with gravel.
425166	TP520	None Supplied	0.25	Brown clay and topsoil with gravel.
425167	TP520	None Supplied	1.10	Brown clay and sand with gravel.
425168	TP529	None Supplied	0.50	Light brown topsoil and clay with gravel.
425169	TP529	None Supplied	1.20	Light brown clay and sand with gravel.
425170	TP515	None Supplied	0.05	Brown clay and topsoil with gravel.
425171	TP526	None Supplied	0.20	Brown clay and topsoil with gravel.
425172	TP532A	None Supplied	0.15	Brown clay and sand.
425173	TP539	None Supplied	0.30	Brown clay and topsoil with gravel.
425174	TP540A	None Supplied	0.25	Brown clay and topsoil with gravel.
425175	TP540A	None Supplied	1.00	Light brown clay and sand.
425176	TP541	None Supplied	0.35	Brown clay and topsoil with gravel.
425177	TP541	None Supplied	1.00	Brown clay and sand.
425178	TP501	None Supplied	0.30	Brown clay and topsoil with gravel.
425179	TP502	None Supplied	0.30	Brown clay and topsoil with gravel.

Analytical Report Number : 15-68364

Project / Site name: Graven Hill, 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
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L0735-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Speciated EPA-16 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	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS

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.



David Owen
Geotechnical Engineering Ltd
Centurion House
Olympus Park
Quedgeley
Gloucester
GL2 4NF

t: 01452 527 743
f: 01452 729 314
e: david.owen@geoeng.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 15-70066

Project / Site name:	Graven Hill, Bicester	Samples received on:	26/03/2015
Your job number:	30378	Samples instructed on:	17/04/2015
Your order number:		Analysis completed by:	24/04/2015
Report Issue Number:	1	Report issued on:	24/04/2015
Samples Analysed:	1 leachate sample - 3 soil samples		

Signed: 

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed: 

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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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Environmental Science

Analytical Report Number: 15-70066

Project / Site name: Graven Hill, Bicester

Lab Sample Number	435132	435133	435134			
Sample Reference	CP111	CP111	CP111			
Sample Number	None Supplied	None Supplied	None Supplied			
Depth (m)	0.25	0.50	1.00			
Date Sampled	18/03/2015	18/03/2015	18/03/2015			
Time Taken	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	14	7.4	20
Total mass of sample received	kg	0.001	NONE	1.4	1.5	1.6

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected

General Inorganics

pH	pH Units	N/A	MCERTS	8.1	8.6	7.9
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	1100	1300	1600
Total Chloride	mg/kg	5	NONE	14	< 5	78
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.43	0.23	0.16
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	0.48	< 0.10	0.15
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	1.6	0.37	0.55
Pyrene	mg/kg	0.1	MCERTS	1.7	0.36	0.50
Benzo(a)anthracene	mg/kg	0.1	MCERTS	1.4	0.20	0.33
Chrysene	mg/kg	0.05	MCERTS	1.3	0.24	0.27
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	2.1	0.36	0.46
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.60	0.19	0.13
Benzo(a)pyrene	mg/kg	0.1	MCERTS	1.4	0.27	0.35
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.80	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	0.12	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.81	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	12.6	2.22	2.90

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	7.0	5.3
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	37	42
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.8	0.3	0.6
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	< 0.2	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	13	4.6	17
Cobalt (aqua regia extractable)	mg/kg	0.15	MCERTS	21	4.1	5.8
Copper (aqua regia extractable)	mg/kg	1	MCERTS	67	20	42
Iron (aqua regia extractable)	mg/kg	40	MCERTS	41000	9500	16000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	97	8.6	14
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	5.8	0.9	0.8
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	51	12	14
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	57	15	23
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	31	21	47

Analytical Report Number: 15-70066
 Project / Site name: Graven Hill, Bicester

Lab Sample Number		435132	435133	435134		
Sample Reference		CP111	CP111	CP111		
Sample Number		None Supplied	None Supplied	None Supplied		
Depth (m)		0.25	0.50	1.00		
Date Sampled		18/03/2015	18/03/2015	18/03/2015		
Time Taken		None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			

Monoaromatics

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	2.2	< 2.0		
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0		
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	20	31	69		
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	20	33	69		

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0		
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	13	< 10	< 10		
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	13	< 10	< 10		



Analytical Report Number: 15-70066
 Project / Site name: Graven Hill, Bicester

Lab Sample Number				435135			
Sample Reference				CP111			
Sample Number				None Supplied			
Depth (m)				0.25			
Date Sampled				18/03/2015			
Time Taken				None Supplied			
Analytical Parameter (Leachate Analysis)		Units	Limit of detection	Accreditation Status			

General Inorganics

Sulphate as SO ₄	µg/l	100	ISO 17025	45200			
Chloride	mg/l	4	NONE	< 4.0			
Fluoride	µg/l	50	NONE	1000			

Phenols by GC-MS

Phenol	µg/l	0.05	NONE	0.85			
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05			
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05			
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05			
2,4-Dimethylphenol	µg/l	0.05	NONE	0.70			
2-Chlorophenol	µg/l	0.05	NONE	< 0.05			
2-Methylphenol	µg/l	0.05	NONE	1.0			
2-Nitrophenol	µg/l	0.05	NONE	< 0.05			
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05			
4-Methylphenol	µg/l	0.05	NONE	1.5			

Total Phenols

Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10			
Total Phenols (GC-MS)	µg/l	1	NONE	4.1			

Speciated PAHs

Naphthalene	µg/l	0.01	NONE	< 0.01			
Acenaphthylene	µg/l	0.01	NONE	< 0.01			
Acenaphthene	µg/l	0.01	NONE	< 0.01			
Fluorene	µg/l	0.01	NONE	< 0.01			
Phenanthrene	µg/l	0.01	NONE	< 0.01			
Anthracene	µg/l	0.01	NONE	< 0.01			
Fluoranthene	µg/l	0.01	NONE	< 0.01			
Pyrene	µg/l	0.01	NONE	< 0.01			
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01			
Chrysene	µg/l	0.01	NONE	< 0.01			
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01			
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01			
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01			
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01			
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01			
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01			

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2			
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Analytical Report Number: 15-70066
 Project / Site name: Graven Hill, Bicester

Lab Sample Number	435135
Sample Reference	CP111
Sample Number	None Supplied
Depth (m)	0.25
Date Sampled	18/03/2015
Time Taken	None Supplied

Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status				
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	3.7			
Barium (dissolved)	µg/l	0.05	ISO 17025	65			
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2			
Boron (dissolved)	µg/l	10	ISO 17025	49			
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08			
Chromium (hexavalent)	µg/l	5	NONE	< 5.0			
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.2			
Copper (dissolved)	µg/l	0.7	ISO 17025	2.1			
Iron (dissolved)	mg/l	0.004	ISO 17025	0.14			
Lead (dissolved)	µg/l	1	ISO 17025	1.7			
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5			
Molybdenum (dissolved)	µg/l	0.4	ISO 17025	14			
Nickel (dissolved)	µg/l	0.3	ISO 17025	1.1			
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0			
Vanadium (dissolved)	µg/l	1.7	ISO 17025	3.2			
Zinc (dissolved)	µg/l	0.4	ISO 17025	< 0.4			

Monoaromatics

Benzene	µg/l	1	NONE	< 1.0			
Toluene	µg/l	1	NONE	< 1.0			
Ethylbenzene	µg/l	1	NONE	< 1.0			
p & m-xylene	µg/l	1	NONE	< 1.0			
o-xylene	µg/l	1	NONE	< 1.0			

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10			
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Environmental Science

Analytical Report Number : 15-70066

Project / Site name: Graven Hill, 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 topsoil/loam 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 *
435132	CP111	None Supplied	0.25	Black sandy topsoil with gravel and vegetation.
435133	CP111	None Supplied	0.50	Light grey clay and sand.
435134	CP111	None Supplied	1.00	Light grey clay.



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Environmental Science

Analytical Report Number : 15-70066

Project / Site name: Graven Hill, 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
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
BTEX in leachates	Determination of BTEX in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073W-PL	W	NONE
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Chloride in leachate	Determination of chloride in leachate by titration against silver nitrate.	In-house method	L024-PL	W	NONE
Chloride in soil	Determination of acid soluble chloride in soil by extraction with nitric acid, addition of silver nitrate followed by titration against thiocyanate.	In-house method	L075-PL	D	NONE
Fluoride in leachate	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*	L033-PL	W	NONE
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals by ICP-OES in leachate	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
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in leachate	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 (skalar)	L080-PL	W	ISO 17025
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Phenols, speciated, in leachate, by GCMS	Determination of speciated phenols in leachate by extraction in hexane followed by GC-MS.	In-house method based on USEPA 8270	L070-PL	W	NONE



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Environmental Science

Analytical Report Number : 15-70066

Project / Site name: Graven Hill, 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
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
Speciated EPA-16 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	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate in leachates	Determination of sulphate 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
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025
TPH1 (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate in soil by extraction in water followed by reaction with sodium salicylate in the presence of sulphuric acid. The reaction product is nitrosalicylic acid, which forms a yellow chromophore upon the addition of alkali, the intensity of which is measured by spectrophotometry.	In-house method based on Polish Standard Method PN-82/C-04579.08.	L078-PL	D	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 30°C.



David Owen

Geotechnical Engineering Ltd
Centurion House
Olympus Park
Quedgeley
Gloucester
GL2 4NF

t: 01452 527 743
f: 01452 729 314
e: david.owen@geoeng.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 15-69424

Project / Site name:	Graven Hill, Bicester	Samples received on:	18/03/2015
Your job number:	30378	Samples instructed on:	02/04/2015
Your order number:		Analysis completed by:	15/04/2015
Report Issue Number:	1	Report issued on:	15/04/2015
Samples Analysed:	1 wac multi sample		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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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i2 Analytical

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

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	15-69424						
				Client: GEOENG			
Location	Graven Hill, Bicester						
Lab Reference (Sample Number)	431565			Landfill Waste Acceptance Criteria			
Sampling Date	16/03/2015			Limits			
Sample ID	TP550			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Depth (m)	0.40						
Solid Waste Analysis							
TOC (%)**	1.8				3%	5%	6%
Loss on Ignition (%) **	5.2				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	7.3				--	>6	--
Acid Neutralisation Capacity (mol / kg)	1.7				--	To be evaluated	To be evaluated
Eluate Analysis							
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium *	0.026	0.023		0.23	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	0.0090	0.0054		0.057	0.5	10	70
Copper *	0.0033	< 0.0030		0.024	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	0.0092	0.0056		0.060	0.5	10	30
Nickel *	0.0011	< 0.0010		< 0.0050	0.4	10	40
Lead *	0.0077	< 0.0050		0.026	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc *	0.0075	0.0044		0.047	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	4000	25000
Fluoride	0.58	0.55		5.5	10	150	500
Sulphate *	10	3.0		37	1000	20000	50000
TDS	120	70		750	4000	60000	100000
Phenol Index (Monhydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
DOC	7.3	7.4		74	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2.0						
Dry Matter (%)	73						
Moisture (%)	27						
Stage 1							
Volume Eluate L2 (litres)	0.30						
Filtered Eluate VE1 (litres)	0.17						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation

* = UKAS accredited (liquid eluate analysis only)

** = MCERTS accredited



Analytical Report Number : 15-69424

Project / Site name: Graven Hill, 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 topsoil/loam 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 *
431565	TP550	None Supplied	0.40	Brown clay and topsoil.

Analytical Report Number : 15-69424

Project / Site name: Graven Hill, 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
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 on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046-PL	W	NONE
BTEX (Sum of BTEX compounds) in soil	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L0735-PL	W	MCERTS
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of chloride in leachate by Gallery discrete analyser.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L082-PL	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by the measurement on a non-dispersive infrared analyser of carbon dioxide released by acidification.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037-PL	W	NONE
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033-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 based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L047-PL	D	MCERTS
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
Mineral Oil in Soil	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	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	NONE
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Sociated 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	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L004-PL	W	NONE



Analytical Report Number : 15-69424

Project / Site name: Graven Hill, 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
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS

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.



David Owen

Geotechnical Engineering Ltd
Centurion House
Olympus Park
Quedgeley
Gloucester
GL2 4NF

t: 01452 527 743
f: 01452 729 314
e: david.owen@geoeng.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 15-69421

Project / Site name:	Graven Hill , Bicester	Samples received on:	27/03/2015
Your job number:	30378	Samples instructed on:	02/04/2015
Your order number:		Analysis completed by:	15/04/2015
Report Issue Number:	1	Report issued on:	15/04/2015
Samples Analysed:	2 wac multi samples		

Signed: _____

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed: _____

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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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i2 Analytical

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

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	15-69421						
				Client: GEOENG			
Location	Graven Hill, Bicester						
Lab Reference (Sample Number)	431550			Landfill Waste Acceptance Criteria			
Sampling Date	26/03/2015			Limits			
Sample ID	CP115			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Depth (m)	1.50						
Solid Waste Analysis							
TOC (%)**	< 0.1				3%	5%	6%
Loss on Ignition (%) **	4.3				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.30				1	--	--
Mineral Oil (mg/kg)	110				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	7.3				--	>6	--
Acid Neutralisation Capacity (mol / kg)	0.81				--	To be evaluated	To be evaluated
Eluate Analysis							
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium *	0.078	0.053		0.55	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	0.0051	0.0046		0.046	0.5	10	70
Copper *	0.0023	< 0.0030		< 0.020	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	< 0.0030	< 0.0030		0.026	0.5	10	30
Nickel *	0.0021	< 0.0010		0.0069	0.4	10	40
Lead *	0.0055	< 0.0050		0.036	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc *	0.0054	0.0025		0.027	4	50	200
Chloride *	22	< 4.0		51	800	4000	25000
Fluoride	2.4	1.9		19	10	150	500
Sulphate *	230	63		780	1000	20000	50000
TDS	340	140		1600	4000	60000	100000
Phenol Index (Monhydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
DOC	14	7.9		84	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.94						
Dry Matter (%)	78						
Moisture (%)	22						
Stage 1							
Volume Eluate L2 (litres)	0.31						
Filtered Eluate VE1 (litres)	0.16						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation

* = UKAS accredited (liquid eluate analysis only)

** = MCERTS accredited

i2 Analytical

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

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	15-69421						
							Client: GEOENG
Location	Graven Hill, Bicester						
Lab Reference (Sample Number)	431551						
Sampling Date	26/03/2015						
Sample ID	CP115						
Depth (m)	2.20						
Landfill Waste Acceptance Criteria							
Limits							
	Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill				
Solid Waste Analysis							
TOC (%)**	1.2				3%	5%	6%
Loss on Ignition (%) **	8.9				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.30				1	--	--
Mineral Oil (mg/kg)	24				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	6.2				--	>6	--
Acid Neutralisation Capacity (mol / kg)	-0.42				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium *	0.097	0.018		0.25	20	100	300
Cadmium *	0.0013	0.0011		0.011	0.04	1	5
Chromium *	0.0039	0.0034		0.034	0.5	10	70
Copper *	0.017	0.016		0.16	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	< 0.0030	< 0.0030		< 0.020	0.5	10	30
Nickel *	0.022	0.017		0.17	0.4	10	40
Lead *	< 0.0050	< 0.0050		< 0.020	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc *	0.010	0.0065		0.068	4	50	200
Chloride *	120	18		270	800	4000	25000
Fluoride	0.73	0.63		6.4	10	150	500
Sulphate *	1700	1500		15000	1000	20000	50000
TDS	1500	1200		12000	4000	60000	100000
Phenol Index (Monhydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
DOC	6.4	2.7		30	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.94						
Dry Matter (%)	75						
Moisture (%)	25						
Stage 1							
Volume Eluate L2 (litres)	0.31						
Filtered Eluate VE1 (litres)	0.15						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation

* = UKAS accredited (liquid eluate analysis only)

** = MCERTS accredited



Analytical Report Number : 15-69421

Project / Site name: Graven Hill , 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 topsoil/loam 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 *
431550	CP115	None Supplied	1.50	Light brown clay.
431551	CP115	None Supplied	2.20	Brown clay.

Analytical Report Number : 15-69421

Project / Site name: Graven Hill , 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
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 on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046-PL	W	NONE
BTEX (Sum of BTEX compounds) in soil	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L0735-PL	W	MCERTS
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of chloride in leachate by Gallery discrete analyser.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L082-PL	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by the measurement on a non-dispersive infrared analyser of carbon dioxide released by acidification.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037-PL	W	NONE
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033-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 based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L047-PL	D	MCERTS
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
Mineral Oil in Soil	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	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	NONE
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Seciated 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	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L004-PL	W	NONE



Analytical Report Number : 15-69421

Project / Site name: Graven Hill , 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
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS

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.



David Owen

Geotechnical Engineering Ltd
Centurion House
Olympus Park
Quedgeley
Gloucester
GL2 4NF

t: 01452 527 743
f: 01452 729 314
e: david.owen@geoeng.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 15-68849

Project / Site name:	Graven Hill, Bicester	Samples received on:	13/03/2015
Your job number:	30378	Samples instructed on:	20/03/2015
Your order number:		Analysis completed by:	01/04/2015
Report Issue Number:	1	Report issued on:	01/04/2015
Samples Analysed:	4 wac multi samples		

Signature _____

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signature _____

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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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i2 Analytical

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

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	15-68849						
				Client: GEOENG			
Location	Graven Hill, Bicester						
Lab Reference (Sample Number)	428568			Landfill Waste Acceptance Criteria			
Sampling Date	12/03/2015			Limits			
Sample ID	TP509			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Depth (m)	0.60						
Solid Waste Analysis							
TOC (%)**	0.3				3%	5%	6%
Loss on Ignition (%) **	5.7				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	7.3				--	>6	--
Acid Neutralisation Capacity (mol / kg)	0.76				--	To be evaluated	To be evaluated
Eluate Analysis							
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium *	0.020	0.014		0.15	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	0.0026	0.0015		0.016	0.5	10	70
Copper *	0.0066	0.0033		0.036	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	< 0.0030	< 0.0030		< 0.020	0.5	10	30
Nickel *	< 0.0010	< 0.0010		< 0.0050	0.4	10	40
Lead *	< 0.0050	< 0.0050		< 0.020	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc *	< 0.0010	< 0.0010		< 0.020	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	4000	25000
Fluoride	0.33	0.29		3.0	10	150	500
Sulphate *	4.4	0.82		11	1000	20000	50000
TDS	30	10		120	4000	60000	100000
Phenol Index (Monhydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
DOC	9.5	8.8		88	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2.0						
Dry Matter (%)	86						
Moisture (%)	14						
Stage 1							
Volume Eluate L2 (litres)	0.33						
Filtered Eluate VE1 (litres)	0.14						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation

* = UKAS accredited (liquid eluate analysis only)

** = MCERTS accredited

i2 Analytical

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

Telephone: 01923 225404

Fax: 01923 237404

email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	15-68849						
Client:	GEOENG						
Location	Graven Hill, Bicester						
Lab Reference (Sample Number)	428569						
Sampling Date	12/03/2015						
Sample ID	TP528						
Depth (m)	0.40						
Landfill Waste Acceptance Criteria							
Limits							
	Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill				
Solid Waste Analysis							
TOC (%)**	0.7				3%	5%	6%
Loss on Ignition (%) **	2.8				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.30				1	--	--
Mineral Oil (mg/kg)	49				500	--	--
Total PAH (WAC-17) (mg/kg)	41				100	--	--
pH (units)**	8.5				--	>6	--
Acid Neutralisation Capacity (mol / kg)	6.8				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium *	0.083	0.057		0.61	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	0.0023	< 0.0010		0.0060	0.5	10	70
Copper *	0.0040	< 0.0030		0.031	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	0.0069	< 0.0030		0.022	0.5	10	30
Nickel *	< 0.0010	< 0.0010		< 0.0050	0.4	10	40
Lead *	< 0.0050	< 0.0050		0.023	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc *	< 0.0010	< 0.0010		< 0.020	4	50	200
Chloride *	23	< 4.0		49	800	4000	25000
Fluoride	0.46	0.22		2.6	10	150	500
Sulphate *	160	18		410	1000	20000	50000
TDS	250	70		990	4000	60000	100000
Phenol Index (Monhydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
DOC	5.7	3.9		42	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2.0						
Dry Matter (%)	93						
Moisture (%)	7.4						
Stage 1							
Volume Eluate L2 (litres)	0.34						
Filtered Eluate VE1 (litres)	0.28						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation

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i2 Analytical

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

Telephone: 01923 225404

Fax: 01923 237404

email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results								
Report No:	15-68849							
Location	Graven Hill, Bicester							
Lab Reference (Sample Number)	428570							
Sampling Date	12/03/2015							
Sample ID	TP544							
Depth (m)	0.60							
				Inert Waste Landfill			Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	
							Hazardous Waste Landfill	
Solid Waste Analysis								
TOC (%)**	0.1				3%	5%	6%	
Loss on Ignition (%) **	4.2				--	--	10%	
BTEX (µg/kg) **	< 10				6000	--	--	
Sum of PCBs (mg/kg) **	< 0.30				1	--	--	
Mineral Oil (mg/kg)	< 10				500	--	--	
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--	
pH (units)**	7.7				--	>6	--	
Acid Neutralisation Capacity (mol / kg)	1.5				--	To be evaluated	To be evaluated	
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test			
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)			
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25	
Barium *	0.023	0.0083		0.094	20	100	300	
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5	
Chromium *	0.0039	0.0022		0.023	0.5	10	70	
Copper *	0.0030	< 0.0030		< 0.020	2	50	100	
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2	
Molybdenum *	< 0.0030	< 0.0030		< 0.020	0.5	10	30	
Nickel *	< 0.0010	< 0.0010		< 0.0050	0.4	10	40	
Lead *	< 0.0050	< 0.0050		< 0.020	0.5	10	50	
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5	
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7	
Zinc *	< 0.0010	< 0.0010		< 0.020	4	50	200	
Chloride *	< 4.0	< 4.0		< 15	800	4000	25000	
Fluoride	0.70	0.63		6.4	10	150	500	
Sulphate *	7.2	1.6		20	1000	20000	50000	
TDS	50	20		220	4000	60000	100000	
Phenol Index (Monhydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-	
DOC	3.5	4.9		48	500	800	1000	
Leach Test Information								
Stone Content (%)	< 0.1							
Sample Mass (kg)	2.0							
Dry Matter (%)	88							
Moisture (%)	12							
Stage 1								
Volume Eluate L2 (litres)	0.33							
Filtered Eluate VE1 (litres)	0.13							

Results are expressed on a dry weight basis, after correction for moisture content where applicable
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i2 Analytical

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

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	15-68849						
							Client: GEOENG
Location	Graven Hill, Bicester						
Lab Reference (Sample Number)	428571						
Sampling Date	12/03/2015						
Sample ID	TP552						
Depth (m)	0.20						
Landfill Waste Acceptance Criteria							
Limits							
	Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill				
Solid Waste Analysis							
TOC (%)**	2.8				3%	5%	6%
Loss on Ignition (%) **	12				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	7.4				--	>6	--
Acid Neutralisation Capacity (mol / kg)	2.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium *	0.062	0.050		0.51	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	0.0027	0.0012		0.013	0.5	10	70
Copper *	0.013	0.012		0.12	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	0.014	0.0093		0.095	0.5	10	30
Nickel *	< 0.0010	< 0.0010		< 0.0050	0.4	10	40
Lead *	0.0065	< 0.0050		< 0.020	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc *	0.0020	< 0.0010		< 0.020	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	4000	25000
Fluoride	0.76	0.78		7.8	10	150	500
Sulphate *	19	4.5		54	1000	20000	50000
TDS	160	100		1000	4000	60000	100000
Phenol Index (Monhydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
DOC	11	8.0		82	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2.0						
Dry Matter (%)	71						
Moisture (%)	29						
Stage 1							
Volume Eluate L2 (litres)	0.30						
Filtered Eluate VE1 (litres)	0.11						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation

* = UKAS accredited (liquid eluate analysis only)

** = MCERTS accredited



Analytical Report Number : 15-68849

Project / Site name: Graven Hill, 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 topsoil/loam 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 *
428568	TP509	None Supplied	0.60	Light brown clay and sand with vegetation.
428569	TP528	None Supplied	0.40	Black sandy gravel. **
428570	TP544	None Supplied	0.60	Light brown clay and sand.
428571	TP552	None Supplied	0.20	Brown clay and topsoil with gravel and vegetation.

** Non MCerts Matrix

Analytical Report Number : 15-68849

Project / Site name: Graven Hill, 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
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 on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046-PL	W	NONE
BTEX (Sum of BTEX compounds) in soil	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L0735-PL	W	MCERTS
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of chloride in leachate by Gallery discrete analyser.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L082-PL	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by the measurement on a non-dispersive infrared analyser of carbon dioxide released by acidification.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037-PL	W	NONE
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1 ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033-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 based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L047-PL	D	MCERTS
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
Mineral Oil in Soil	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	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	NONE
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Sociated 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	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L004-PL	W	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS



Analytical Report Number : 15-68849

Project / Site name: Graven Hill, 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
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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.



David Owen

Geotechnical Engineering Ltd
Centurion House
Olympus Park
Quedgeley
Gloucester
GL2 4NF

t: 01452 527 743
f: 01452 729 314
e: david.owen@geoeng.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 15-70126

Project / Site name:	Graven Hill , Bicester	Samples received on:	17/04/2015
Your job number:	30378	Samples instructed on:	17/04/2015
Your order number:		Analysis completed by:	24/04/2015
Report Issue Number:	1	Report issued on:	24/04/2015
Samples Analysed:	10 water samples		

Signed: 

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed: 

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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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Analytical Report Number: 15-70126
 Project / Site name: Graven Hill , Bicester

Lab Sample Number	435547	435548	435549	435550	435551			
Sample Reference	CP107	CP108	CP110	CP111	CP115			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	2.97	1.60	2.50	2.03	0.97			
Date Sampled	15/04/2015	15/04/2015	15/04/2015	15/04/2015	15/04/2015			
Time Taken	0930	1040	1100	1140	1745			
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

General Inorganics

	pH Units	N/A	ISO 17025	7.6	7.3	7.0	7.1	7.3
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Complex Cyanide	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Sulphate as SO ₄	µg/l	45	ISO 17025	2770000	1410000	1950000	1410000	1740000
Chloride	mg/l	0.15	ISO 17025	160	26	140	150	300
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	2900	990	1600	300	620
Nitrate as N	mg/l	0.25	ISO 17025	1.0	< 0.3	0.3	0.3	0.3
Hardness - Total	mgCaCO ₃ /l	1	ISO 17025	2140	1850	2100	1930	1350

Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
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Analytical Report Number: 15-70126
 Project / Site name: Graven Hill , Bicester

Lab Sample Number	435547				435548				435549				435550				435551			
Sample Reference	CP107				CP108				CP110				CP111				CP115			
Sample Number	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Depth (m)	2.97				1.60				2.50				2.03				0.97			
Date Sampled	15/04/2015				15/04/2015				15/04/2015				15/04/2015				15/04/2015			
Time Taken	0930				1040				1100				1140				1745			
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status																	

Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	0.15	ISO 17025	3.80	1.29	4.15	2.88	7.38
Barium (dissolved)	µg/l	0.06	ISO 17025	59	52	60	61	91
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron (dissolved)	µg/l	10	ISO 17025	2000	180	550	290	1200
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.11	0.14	0.04	0.18	0.18
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.2	ISO 17025	38	27	37	23	0.6
Cobalt (dissolved)	µg/l	0.2	ISO 17025	13	14	7.6	9.1	4.7
Copper (dissolved)	µg/l	0.5	ISO 17025	69	25	29	22	4.5
Iron (dissolved)	mg/l	0.004	ISO 17025	0.46	0.95	0.71	0.41	0.34
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	0.8
Mercury (dissolved)	µg/l	0.05	ISO 17025	0.30	0.11	0.34	0.17	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	80	47	48	52	10
Selenium (dissolved)	µg/l	0.6	ISO 17025	6.0	2.8	4.2	2.7	< 0.6
Vanadium (dissolved)	µg/l	0.2	ISO 17025	1.9	0.8	1.8	1.6	0.3
Zinc (dissolved)	µg/l	0.5	ISO 17025	9.2	8.1	6.9	8.6	6.5

Calcium (dissolved)	mg/l	0.012	ISO 17025	610	700	650	670	420
Magnesium (dissolved)	mg/l	0.005	ISO 17025	150	26	110	59	74

Monoaromatics

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10



Analytical Report Number: 15-70126
 Project / Site name: Graven Hill , Bicester

Lab Sample Number				435552	435553	435554	435555	435556
Sample Reference				RC313	CP104	CP102	CP101	CP113
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.32	0.64	0.21	0.51	0.60
Date Sampled				15/04/2015	15/04/2015	15/04/2015	15/04/2015	15/04/2015
Time Taken				1330	1359	1640	1700	1730
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

General Inorganics

pH	pH Units	N/A	ISO 17025	7.4	7.4	7.3	7.3	7.2
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Complex Cyanide	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Sulphate as SO ₄	µg/l	45	ISO 17025	1200000	258000	1110000	988000	1700000
Chloride	mg/l	0.15	ISO 17025	94	8.5	21	14	48
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	420	26	260	280	400
Nitrate as N	mg/l	0.25	ISO 17025	0.3	< 0.3	0.3	< 0.3	0.4
Hardness - Total	mgCaCO ₃ /l	1	ISO 17025	667	445	960	978	1330

Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
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Analytical Report Number: 15-70126
 Project / Site name: Graven Hill , Bicester

Lab Sample Number	435552				435553		435554		435555		435556	
Sample Reference	RC313				CP104		CP102		CP101		CP113	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.32				0.64		0.21		0.51		0.60	
Date Sampled	15/04/2015				15/04/2015		15/04/2015		15/04/2015		15/04/2015	
Time Taken	1330				1359		1640		1700		1730	
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status									

Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	0.15	ISO 17025	11.7	6.50	6.78	9.00	1.24
Barium (dissolved)	µg/l	0.06	ISO 17025	100	32	58	46	47
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron (dissolved)	µg/l	10	ISO 17025	1700	230	410	620	570
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02	< 0.02	< 0.02	< 0.02	0.05
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.2	ISO 17025	1.4	1.6	0.4	0.6	18
Cobalt (dissolved)	µg/l	0.2	ISO 17025	2.0	0.7	1.6	0.9	1.8
Copper (dissolved)	µg/l	0.5	ISO 17025	1.9	3.7	4.5	2.3	25
Iron (dissolved)	mg/l	0.004	ISO 17025	0.71	0.82	0.29	0.54	1.6
Lead (dissolved)	µg/l	0.2	ISO 17025	1.6	1.9	1.2	0.6	0.4
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	0.65
Nickel (dissolved)	µg/l	0.5	ISO 17025	12	3.8	6.4	7.6	28
Selenium (dissolved)	µg/l	0.6	ISO 17025	< 0.6	2.9	< 0.6	< 0.6	3.9
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.3	0.7	< 0.2	< 0.2	0.9
Zinc (dissolved)	µg/l	0.5	ISO 17025	2.6	3.3	2.8	1.6	4.7

Calcium (dissolved)	mg/l	0.012	ISO 17025	200	160	320	340	420
Magnesium (dissolved)	mg/l	0.005	ISO 17025	41	8.4	38	34	67

Monoaromatics

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10



Analytical Report Number: 15-70126
 Project / Site name: Graven Hill , Bicester

Lab Sample Number	435552				435553	435554	435555	435556
Sample Reference	RC313				CP104	CP102	CP101	CP113
Sample Number	None Supplied				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.32				0.64	0.21	0.51	0.60
Date Sampled	15/04/2015				15/04/2015	15/04/2015	15/04/2015	15/04/2015
Time Taken	1330				1359	1640	1700	1730
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 15-70126

Project / Site name: Graven Hill , 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
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Chloride in water	Determination of Chloride in water by Gallery Discrete Analyser based on reaction with mercury (II) thiocyanate and acid solution with iron (III) nitrate to form a red/brown iron (III) thiocyanate complex; followed by spectrophotometric measurement at a wavelength of 480 nm.	Methods for the Examination of Water and Associated Materials Chloride in Waters, Sewage and Effluents 1981. ISBN 0117516260 Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate in water by colorimetric assay. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L078-PL	W	ISO 17025
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total Hardness of water	Determination of hardness in waters by calculation from calcium and magnesium. Accredited Matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045-PL	W	ISO 17025
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025

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.

Waste Classification Report



L4B66-BQRBN-PTBQT

Job name

Graven Hill

Waste Stream

Default Contaminated Land

Comments

Bicester

Project

MOD Site

Site

Classified by

Name:

Amos, Mark

Date:

11/08/2015 15:43 UTC

Telephone:

0117 937 8200

Company:

Waterman Energy Environment & Design Ltd

Merchants House

Wapping Road

Bristol

BS1 4RW

Report

Created by: Amos, Mark

Created date: 11/08/2015 15:43 UTC

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazardous properties	Page
1	TP518	0.25	Potentially Hazardous	HP 3(i)	3
2	TP518[1]	1.2	Non Hazardous		5
3	TP520	0.25	Non Hazardous		7
4	TP520[1]	1.1	Non Hazardous		9
5	TP529	0.5	Potentially Hazardous	HP 3(i)	11
6	TP529[1]	1.2	Non Hazardous		13
7	TP515	0.05	Non Hazardous		15
8	TP526	0.2	Non Hazardous		17
9	TP532A	0.15	Non Hazardous		19
10	TP539	0.3	Non Hazardous		21
11	TP540A	0.25	Non Hazardous		23
12	TP540A[1]	1	Non Hazardous		25
13	TP541	0.35	Potentially Hazardous	HP 3(i)	27
14	TP541[1]	1	Non Hazardous		29
15	TP501	0.3	Non Hazardous		31
16	TP502	0.3	Non Hazardous		33
17	TP503	0.2	Non Hazardous		35

#	Sample Name	Depth [m]	Classification Result	Hazardous properties	Page
18	TP503[1]	0.6	Non Hazardous		37
19	TP528	0.4	Potentially Hazardous	HP 3(i)	39
20	TP528[1]	1.1	Non Hazardous		41
21	TP544	0.6	Non Hazardous		43
22	TP544[1]	1.2	Non Hazardous		45
23	TP546	0.3	Potentially Hazardous	HP 3(i)	47
24	TP549	0.3	Potentially Hazardous	HP 3(i)	49
25	TP552	0.2	Potentially Hazardous	HP 3(i)	51
26	TP552[1]	0.5	Potentially Hazardous	HP 3(i)	53
27	TP552[2]	1.1	Non Hazardous		55
28	RC303	0.3	Non Hazardous		57
29	CP101	0.25	Non Hazardous		59
30	CP101[1]	0.5	Non Hazardous		61
31	CP109	0.25	Non Hazardous		63
32	CP109[1]	0.5	Non Hazardous		65
33	CC401	0.4	Hazardous	HP 3(i), HP 7, HP 11	67
34	CC401[1]	0.7	Potentially Hazardous	HP 3(i)	69
35	CC401[2]	0.9	Potentially Hazardous	HP 3(i)	71
36	CC405	0.4	Potentially Hazardous	HP 3(i)	73
37	CC409	0.9	Non Hazardous		75
38	CP115	1.5	Potentially Hazardous	HP 3(i)	77
39	CP115[1]	2.2	Potentially Hazardous	HP 3(i)	79
40	HP703	0.2	Non Hazardous		81
41	HP703[1]	0.5	Non Hazardous		83
42	HP704	0.2	Non Hazardous		85
43	HP704[1]	0.4	Potentially Hazardous	HP 3(i)	87
44	HP707	0.2	Non Hazardous		89
45	SD01		Potentially Hazardous	HP 3(i)	91
46	SD02		Potentially Hazardous	HP 3(i)	93
47	SD03		Potentially Hazardous	HP 3(i)	95
48	SD04		Potentially Hazardous	HP 3(i)	97
49	SD05		Non Hazardous		99
50	SD06		Potentially Hazardous	HP 3(i)	101
51	SD07		Hazardous	HP 3(i), HP 7, HP 14	103
52	CP114	0.25	Non Hazardous		105
53	CP115[2]	0.25	Potentially Hazardous	HP 3(i)	107
54	CP115[3]	0.5	Potentially Hazardous	HP 3(i)	109
55	CP115[4]	1	Hazardous	HP 3(i), HP 7, HP 11	111
56	CP102	0.25	Non Hazardous		113
57	TP504	0.3	Non Hazardous		115
58	TP511	0.6	Non Hazardous		117
59	TP550	0.4	Non Hazardous		119
60	TP550[1]	1.1	Non Hazardous		121
61	TP551	0.4	Non Hazardous		123
62	TP554	0.2	Non Hazardous		125
63	RC304	0.3	Non Hazardous		127
64	CP108	0.25	Non Hazardous		129
65	CC419	0.4	Hazardous	HP 3(i), HP 7, HP 11, HP 14	131
66	CP111	0.25	Potentially Hazardous	HP 3(i)	134
67	CP111[1]	0.5	Potentially Hazardous	HP 3(i)	136
68	CP111[2]	1	Potentially Hazardous	HP 3(i)	138

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Classification of sample: TP518

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample Name: TP518	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.25 m	Entry:	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)
Moisture content: 24% (dry weight correction)		

Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.000887%)

Determinands (Moisture content: 24%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: 0.2 mg/kg or 0.0000161%)
 arsenic trioxide: (Whole conc. entered as: 17 mg/kg or 0.00181%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000806%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: 1.2 mg/kg or 0.0000968%)
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 1.3 mg/kg or 0.000105%)
 benzo[b]fluoranthene: (Whole conc. entered as: 1.7 mg/kg or 0.000137%)
 benzo[ghi]perylene: (Whole conc. entered as: 0.72 mg/kg or 0.0000581%)
 benzo[k]fluoranthene: (Whole conc. entered as: 0.92 mg/kg or 0.0000742%)
 beryllium oxide: (Whole conc. entered as: 1.8 mg/kg or 0.000403%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.8 mg/kg or 0.00195%)
 cadmium sulfide: (Whole conc. entered as: 0.2 mg/kg or 0.0000207%)
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.00062%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 36 mg/kg or 0.00327%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000806%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: 0.21 mg/kg or 0.0000169%)
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000806%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: 1.8 mg/kg or 0.000145%)
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: 0.6 mg/kg or 0.0000484%)
 lead chromate: (Whole conc. entered as: 61 mg/kg or 0.00767%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000327%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 0.8 mg/kg or 0.0000968%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000403%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 39 mg/kg or 0.00497%)
 pH: (Whole conc. entered as: 7.8 pH, converted to conc.: 7.8 pH or 7.8 pH)
 phenanthrene: (Whole conc. entered as: 1.2 mg/kg or 0.0000968%)

pyrene: (Whole conc. entered as: 1.3 mg/kg or 0.000105%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000121%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000806%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 11 mg/kg or 0.000887%)
zinc chromate: (Whole conc. entered as: 240 mg/kg or 0.0537%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "dibenz[a,h]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: TP518[1]

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

Sample details

Sample Name:	LoW Code:
TP518[1]	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)
1.2 m	
Moisture content: 16% (dry weight correction)	

Hazard properties

None identified

Determinands (Moisture content: 16%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 19 mg/kg or 0.00216%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000431%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 1.3 mg/kg or 0.000311%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.4 mg/kg or 0.00162%)
 cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000222%) **IGNORED Because: "<LOD"**
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000663%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 27 mg/kg or 0.00262%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 15 mg/kg or 0.00202%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.000035%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: <0.3 mg/kg or <0.0000388%) **IGNORED Because: "<LOD"**
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000431%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 42 mg/kg or 0.00572%)
 pH: (Whole conc. entered as: 7.8 pH, converted to conc.:7.8 pH or 7.8 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000129%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 71 mg/kg or 0.017%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP520

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

Sample details

Sample Name:	LoW Code:
TP520	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m	
Moisture content: 26% (dry weight correction)	

Hazard properties

None identified

Determinands (Moisture content: 26%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000794%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000794%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: 0.17 mg/kg or 0.0000135%)
 arsenic trioxide: (Whole conc. entered as: 19 mg/kg or 0.00199%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000794%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: 0.66 mg/kg or 0.0000524%)
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.66 mg/kg or 0.0000524%)
 benzo[b]fluoranthene: (Whole conc. entered as: 1.2 mg/kg or 0.0000952%)
 benzo[ghi]perylene: (Whole conc. entered as: 0.47 mg/kg or 0.0000373%)
 benzo[k]fluoranthene: (Whole conc. entered as: 0.48 mg/kg or 0.0000381%)
 beryllium oxide: (Whole conc. entered as: 2.1 mg/kg or 0.000463%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.6 mg/kg or 0.00277%)
 cadmium sulfide: (Whole conc. entered as: 0.3 mg/kg or 0.0000306%)
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000611%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 72 mg/kg or 0.00643%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000794%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000794%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000794%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: 1.3 mg/kg or 0.000103%)
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000794%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: 0.44 mg/kg or 0.0000349%)
 lead chromate: (Whole conc. entered as: 74 mg/kg or 0.00916%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000322%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 1.2 mg/kg or 0.000143%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000397%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 43 mg/kg or 0.00539%)
 pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)
 phenanthrene: (Whole conc. entered as: 0.85 mg/kg or 0.0000675%)
 pyrene: (Whole conc. entered as: 1 mg/kg or 0.0000794%)
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000119%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.0000794%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000794%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 190 mg/kg or 0.0418%)


Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP520[1]

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

Sample details

Sample Name:	LoW Code:
TP520[1]	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)
1.1 m	
Moisture content: 18% (dry weight correction)	

Hazard properties

None identified

Determinands (Moisture content: 18%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: 0.12 mg/kg or 0.0000102%)
arsenic trioxide: (Whole conc. entered as: 16 mg/kg or 0.00179%)
benzene: (Whole conc. entered as: <1 mg/kg or <0.0000847%) **IGNORED Because: "<LOD"**
benzo[a]anthracene: (Whole conc. entered as: 0.24 mg/kg or 0.0000203%)
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.22 mg/kg or 0.0000186%)
benzo[b]fluoranthene: (Whole conc. entered as: 0.23 mg/kg or 0.0000195%)
benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000424%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: 0.16 mg/kg or 0.0000136%)
beryllium oxide: (Whole conc. entered as: 1.4 mg/kg or 0.000329%)
boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.7 mg/kg or 0.00193%)
cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000218%) **IGNORED Because: "<LOD"**
chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000652%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Whole conc. entered as: 29 mg/kg or 0.00277%)
cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000847%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000847%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: 0.57 mg/kg or 0.0000483%)
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
lead chromate: (Whole conc. entered as: 17 mg/kg or 0.00225%)
mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000344%) **IGNORED Because: "<LOD"**
molybdenum(VI) oxide: (Whole conc. entered as: 0.4 mg/kg or 0.0000509%)
naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000424%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Whole conc. entered as: 33 mg/kg or 0.00442%)
pH: (Whole conc. entered as: 7.9 pH, converted to conc.: 7.9 pH or 7.9 pH)
phenanthrene: (Whole conc. entered as: 0.6 mg/kg or 0.0000508%)
pyrene: (Whole conc. entered as: 0.45 mg/kg or 0.0000381%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000127%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000847%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000847%) **IGNORED Because: "<LOD"**
zinc chromate: (Whole conc. entered as: 71 mg/kg or 0.0167%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP529

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample Name: TP529 Sample Depth: 0.5 m Moisture content: 8.1% (dry weight correction)	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.049%)

Determinands (Moisture content: 8.1%, dry weight correction)

acenaphthene: (Whole conc. entered as: 0.67 mg/kg or 0.000062%)
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000925%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: 4.9 mg/kg or 0.000453%)
 arsenic trioxide: (Whole conc. entered as: 5.8 mg/kg or 0.000708%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000925%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: 13 mg/kg or 0.0012%)
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 11 mg/kg or 0.00102%)
 benzo[b]fluoranthene: (Whole conc. entered as: 14 mg/kg or 0.0013%)
 benzo[ghi]perylene: (Whole conc. entered as: 5.6 mg/kg or 0.000518%)
 benzo[k]fluoranthene: (Whole conc. entered as: 6.3 mg/kg or 0.000583%)
 beryllium oxide: (Whole conc. entered as: 0.4 mg/kg or 0.000103%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.3 mg/kg or 0.000373%)
 cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000238%) **IGNORED Because: "<LOD"**
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000712%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 11 mg/kg or 0.00115%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000925%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: 1.7 mg/kg or 0.000157%)
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000925%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: 28 mg/kg or 0.00259%)
 fluorene: (Whole conc. entered as: 0.43 mg/kg or 0.0000398%)
 indeno[123-cd]pyrene: (Whole conc. entered as: 4.9 mg/kg or 0.000453%)
 lead chromate: (Whole conc. entered as: 24 mg/kg or 0.00346%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000376%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: <0.3 mg/kg or <0.0000416%) **IGNORED Because: "<LOD"**
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000463%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 6.6 mg/kg or 0.000964%)
 pH: (Whole conc. entered as: 7.8 pH, converted to conc.: 7.8 pH or 7.8 pH)
 phenanthrene: (Whole conc. entered as: 22 mg/kg or 0.00204%)

pyrene: (Whole conc. entered as: 21 mg/kg or 0.00194%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: 3.4 mg/kg or 0.000472%)

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000925%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: 530 mg/kg or 0.049%)

zinc chromate: (Whole conc. entered as: 19 mg/kg or 0.00488%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluorene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "acenaphthene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "dibenz[a,h]anthracene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite)"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: TP529[1]

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

Sample details

Sample Name: TP529[1] Sample Depth: 1.2 m Moisture content: 20% (dry weight correction)	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
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Hazard properties

None identified

Determinands (Moisture content: 20%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 7.6 mg/kg or 0.000836%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 1.7 mg/kg or 0.000393%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.4 mg/kg or 0.00157%)
 cadmium sulfide: (Whole conc. entered as: 0.3 mg/kg or 0.0000321%)
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000641%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 41 mg/kg or 0.00385%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 15 mg/kg or 0.00195%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000338%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 2.9 mg/kg or 0.000363%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 55 mg/kg or 0.00724%)
 pH: (Whole conc. entered as: 7.9 pH, converted to conc.:7.9 pH or 7.9 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000125%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 120 mg/kg or 0.0277%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"


Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP515


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

Sample details

Sample Name:	LoW Code:
TP515	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.05 m	
Moisture content: 23% (dry weight correction)	

Hazard properties

None identified

Determinands (Moisture content: 23%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 9.9 mg/kg or 0.00106%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.0000813%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000407%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.6 mg/kg or 0.000361%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.7 mg/kg or 0.00295%)

cadmium sulfide: (Whole conc. entered as: 0.3 mg/kg or 0.0000313%)

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000625%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 40 mg/kg or 0.00366%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000813%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000813%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 25 mg/kg or 0.00317%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.000033%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 3.5 mg/kg or 0.000427%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000407%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 45 mg/kg or 0.00578%)

pH: (Whole conc. entered as: 7.8 pH, converted to conc.: 7.8 pH or 7.8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000122%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000813%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000813%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 110 mg/kg or 0.0248%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP526

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

Sample details

Sample Name: TP526	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.2 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 25% (dry weight correction)	

Hazard properties

None identified

Determinands (Moisture content: 25%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: 0.18 mg/kg or 0.0000144%)
 arsenic trioxide: (Whole conc. entered as: 9 mg/kg or 0.000951%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: 0.49 mg/kg or 0.0000392%)
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.4 mg/kg or 0.000032%)
 benzo[b]fluoranthene: (Whole conc. entered as: 0.49 mg/kg or 0.0000392%)
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.000004%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: 0.3 mg/kg or 0.000024%)
 beryllium oxide: (Whole conc. entered as: 1.3 mg/kg or 0.000289%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.7 mg/kg or 0.0029%)
 cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000206%) **IGNORED Because: "<LOD"**
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000615%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 29 mg/kg or 0.00261%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: 0.79 mg/kg or 0.0000632%)
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 34 mg/kg or 0.00424%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000325%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 2.2 mg/kg or 0.000264%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.000004%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 34 mg/kg or 0.0043%)
 pH: (Whole conc. entered as: 7.6 pH, converted to conc.:7.6 pH or 7.6 pH)
 phenanthrene: (Whole conc. entered as: 0.39 mg/kg or 0.0000312%)
 pyrene: (Whole conc. entered as: 0.59 mg/kg or 0.0000472%)
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.00012%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 96 mg/kg or 0.0213%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP532A

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

Sample details

<p>Sample Name: TP532A</p> <p>Sample Depth: 0.15 m</p> <p>Moisture content: 20% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 20%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 6.2 mg/kg or 0.000682%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.6 mg/kg or 0.00037%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.2 mg/kg or 0.00134%)

cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000214%) **IGNORED Because: "<LOD"**

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000641%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 36 mg/kg or 0.00338%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 13 mg/kg or 0.00169%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000338%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 3.1 mg/kg or 0.000388%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 55 mg/kg or 0.00724%)

pH: (Whole conc. entered as: 7.5 pH, converted to conc.:7.5 pH or 7.5 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000125%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 110 mg/kg or 0.0254%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"


Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP539

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

Sample details

Sample Name:	LoW Code:
TP539	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.3 m	
Moisture content: 22% (dry weight correction)	

Hazard properties

None identified

Determinands (Moisture content: 22%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000082%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.0000082%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000082%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Whole conc. entered as: 16 mg/kg or 0.00173%)
benzene: (Whole conc. entered as: <1 mg/kg or <0.000082%) **IGNORED Because: "<LOD"**
benzo[a]anthracene: (Whole conc. entered as: 0.52 mg/kg or 0.0000426%)
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.47 mg/kg or 0.0000385%)
benzo[b]fluoranthene: (Whole conc. entered as: 0.62 mg/kg or 0.0000508%)
benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.0000041%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: 0.29 mg/kg or 0.0000238%)
beryllium oxide: (Whole conc. entered as: 1.6 mg/kg or 0.000364%)
boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.9 mg/kg or 0.00209%)
cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000211%) **IGNORED Because: "<LOD"**
chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000631%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Whole conc. entered as: 34 mg/kg or 0.00314%)
cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.000082%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000082%) **IGNORED Because: "<LOD"**
ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.000082%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: 0.8 mg/kg or 0.0000656%)
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.0000082%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000082%) **IGNORED Because: "<LOD"**
lead chromate: (Whole conc. entered as: 66 mg/kg or 0.00844%)
mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000333%) **IGNORED Because: "<LOD"**
molybdenum(VI) oxide: (Whole conc. entered as: 1.4 mg/kg or 0.000172%)
naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.0000041%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Whole conc. entered as: 33 mg/kg or 0.00427%)
pH: (Whole conc. entered as: 7.2 pH, converted to conc.:7.2 pH or 7.2 pH)
phenanthrene: (Whole conc. entered as: 0.44 mg/kg or 0.0000361%)
pyrene: (Whole conc. entered as: 0.63 mg/kg or 0.0000516%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000123%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.000082%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.000082%) **IGNORED Because: "<LOD"**
zinc chromate: (Whole conc. entered as: 95 mg/kg or 0.0216%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP540A

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

Sample details

Sample Name: TP540A	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.25 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 27% (dry weight correction)	

Hazard properties

None identified

Determinands (Moisture content: 27%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 15 mg/kg or 0.00156%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000394%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 1.6 mg/kg or 0.00035%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.7 mg/kg or 0.00286%)
 cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000202%) **IGNORED Because: "<LOD"**
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000606%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 32 mg/kg or 0.00284%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 30 mg/kg or 0.00368%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.000032%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 1.5 mg/kg or 0.000177%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000394%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 37 mg/kg or 0.0046%)
 pH: (Whole conc. entered as: 7.4 pH, converted to conc.:7.4 pH or 7.4 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000118%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 100 mg/kg or 0.0218%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP540A[1]

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

Sample details

Sample Name:	LoW Code:
TP540A[1]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m	
Moisture content: 19% (dry weight correction)	

Hazard properties

None identified

Determinands (Moisture content: 19%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 7.5 mg/kg or 0.000832%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.0000042%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 1.2 mg/kg or 0.00028%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.6 mg/kg or 0.00293%)
 cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000216%) **IGNORED Because: "<LOD"**
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000646%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 29 mg/kg or 0.00274%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 15 mg/kg or 0.00197%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000341%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 1.2 mg/kg or 0.000151%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.0000042%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 38 mg/kg or 0.00504%)
 pH: (Whole conc. entered as: 7.4 pH, converted to conc.: 7.4 pH or 7.4 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000126%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 61 mg/kg or 0.0142%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP541

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample Name: TP541 Sample Depth: 0.35 m Moisture content: 39% (dry weight correction)	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00101%)

Determinands (Moisture content: 39%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000719%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000719%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000719%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 22 mg/kg or 0.00209%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000719%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000719%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000719%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000719%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.0000036%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000719%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 1.9 mg/kg or 0.000379%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 4.3 mg/kg or 0.00415%)
 cadmium sulfide: (Whole conc. entered as: 0.3 mg/kg or 0.0000277%)
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000553%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 63 mg/kg or 0.0051%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000719%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000719%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000719%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000719%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000719%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000719%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 130 mg/kg or 0.0146%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000292%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 1.8 mg/kg or 0.000194%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.0000036%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 53 mg/kg or 0.00602%)
 pH: (Whole conc. entered as: 7 pH, converted to conc.: 7 pH or 7 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000719%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000719%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000108%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000719%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 14 mg/kg or 0.00101%)
zinc chromate: (Whole conc. entered as: 180 mg/kg or 0.0359%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: TP541[1]

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

Sample details

<p>Sample Name: TP541[1]</p> <p>Sample Depth: 1 m</p> <p>Moisture content: 21% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 21%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 25 mg/kg or 0.00273%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000413%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.5 mg/kg or 0.000344%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.9 mg/kg or 0.00211%)

cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000212%) **IGNORED Because: "<LOD"**

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000636%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 36 mg/kg or 0.00335%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 29 mg/kg or 0.00374%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000336%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 0.5 mg/kg or 0.000062%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000413%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 51 mg/kg or 0.00666%)

pH: (Whole conc. entered as: 7.5 pH, converted to conc.: 7.5 pH or 7.5 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000124%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 110 mg/kg or 0.0252%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP501

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

Sample details

Sample Name: TP501	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 17% (dry weight correction)		

Hazard properties

None identified

Determinands (Moisture content: 17%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000855%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000855%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000855%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 11 mg/kg or 0.00124%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000855%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000855%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000855%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000855%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.0000427%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000855%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 1.2 mg/kg or 0.000285%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.2 mg/kg or 0.00253%)
 cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.000022%) **IGNORED Because: "<LOD"**
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000657%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 18 mg/kg or 0.00173%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000855%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000855%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000855%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000855%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000855%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000855%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 20 mg/kg or 0.00267%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000347%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 1.5 mg/kg or 0.000192%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000427%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 22 mg/kg or 0.00297%)
 pH: (Whole conc. entered as: 7.7 pH, converted to conc.:7.7 pH or 7.7 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000855%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000855%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000128%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.0000855%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000855%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 65 mg/kg or 0.0154%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP502

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

Sample details

<p>Sample Name: TP502</p> <p>Sample Depth: 0.3 m</p> <p>Moisture content: 20% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 20%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 9 mg/kg or 0.00099%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.2 mg/kg or 0.000278%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.2 mg/kg or 0.00134%)

cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000214%) **IGNORED Because: "<LOD"**

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000641%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 21 mg/kg or 0.00197%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 21 mg/kg or 0.00273%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000338%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 2.1 mg/kg or 0.000263%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 27 mg/kg or 0.00355%)

pH: (Whole conc. entered as: 7.6 pH, converted to conc.: 7.6 pH or 7.6 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000125%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 82 mg/kg or 0.019%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP503

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

Sample details

Sample Name:	LoW Code:
TP503	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m	
Moisture content: 32% (dry weight correction)	

Hazard properties

None identified

Determinands (Moisture content: 32%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000758%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000758%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000758%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 8.8 mg/kg or 0.00088%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000758%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000758%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000758%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000758%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000379%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000758%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 0.9 mg/kg or 0.000189%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 3.1 mg/kg or 0.00315%)
 cadmium sulfide: (Whole conc. entered as: 0.5 mg/kg or 0.0000487%)
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000583%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 27 mg/kg or 0.0023%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000758%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000758%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000758%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000758%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000758%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000758%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 37 mg/kg or 0.00437%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000308%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 0.8 mg/kg or 0.0000909%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000379%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 17 mg/kg or 0.00203%)
 pH: (Whole conc. entered as: 7.1 pH, converted to conc.:7.1 pH or 7.1 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000758%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000758%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000114%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.0000758%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000758%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 110 mg/kg or 0.0231%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP503[1]

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

Sample details

Sample Name: TP503[1] Sample Depth: 0.6 m Moisture content: 18% (dry weight correction)	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
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Hazard properties

None identified

Determinands (Moisture content: 18%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 8.4 mg/kg or 0.00094%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000424%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 1.1 mg/kg or 0.000259%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: <0.2 mg/kg or <0.000228%) **IGNORED Because: "<LOD"**
 cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000218%) **IGNORED Because: "<LOD"**
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000652%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 18 mg/kg or 0.00172%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 14 mg/kg or 0.00185%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000344%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 1.1 mg/kg or 0.00014%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000424%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 24 mg/kg or 0.00321%)
 pH: (Whole conc. entered as: 7.1 pH, converted to conc.: 7.1 pH or 7.1 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000127%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 83 mg/kg or 0.0195%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP528

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: TP528</p> <p>Sample Depth: 0.4 m</p> <p>Moisture content: 7.4% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0205%)

Determinands (Moisture content: 7.4%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000931%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000931%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: 0.82 mg/kg or 0.0000764%)
- arsenic trioxide: (Whole conc. entered as: 6.8 mg/kg or 0.000836%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000931%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 3.5 mg/kg or 0.000326%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 3.2 mg/kg or 0.000298%)
- benzo[b]fluoranthene: (Whole conc. entered as: 3.9 mg/kg or 0.000363%)
- benzo[ghi]perylene: (Whole conc. entered as: 2.3 mg/kg or 0.000214%)
- benzo[k]fluoranthene: (Whole conc. entered as: 2 mg/kg or 0.000186%)
- beryllium oxide: (Whole conc. entered as: 1.5 mg/kg or 0.000388%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: <0.2 mg/kg or <0.00025%) **IGNORED Because: "<LOD"**
- cadmium sulfide: (Whole conc. entered as: 0.3 mg/kg or 0.0000359%)
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000716%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 20 mg/kg or 0.0021%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000931%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000931%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000931%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 8.9 mg/kg or 0.000829%)
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000931%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: 1.7 mg/kg or 0.000158%)
- lead chromate: (Whole conc. entered as: 13 mg/kg or 0.00189%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000378%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 1.7 mg/kg or 0.000237%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000466%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 17 mg/kg or 0.0025%)
- pH: (Whole conc. entered as: 8.5 pH, converted to conc.:8.5 pH or 8.5 pH)

phenanthrene: (Whole conc. entered as: 4.4 mg/kg or 0.00041%)
pyrene: (Whole conc. entered as: 7.4 mg/kg or 0.000689%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.00014%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000931%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 220 mg/kg or 0.0205%)
zinc chromate: (Whole conc. entered as: 45 mg/kg or 0.0116%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: TP528[1]

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

Sample details

<p>Sample Name: TP528[1]</p> <p>Sample Depth: 1.1 m</p> <p>Moisture content: 21% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 21%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 13 mg/kg or 0.00142%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000413%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.6 mg/kg or 0.000367%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.5 mg/kg or 0.00166%)

cadmium sulfide: (Whole conc. entered as: 0.3 mg/kg or 0.0000319%)

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000636%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 27 mg/kg or 0.00251%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 20 mg/kg or 0.00258%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000336%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 1 mg/kg or 0.000124%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000413%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 44 mg/kg or 0.00574%)

pH: (Whole conc. entered as: 6.9 pH, converted to conc.:6.9 pH or 6.9 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000124%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 120 mg/kg or 0.0275%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP544

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

Sample details

Sample Name: TP544	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.6 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 12% (dry weight correction)	

Hazard properties

None identified

Determinands (Moisture content: 12%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 12 mg/kg or 0.00141%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000446%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 1 mg/kg or 0.000248%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.5 mg/kg or 0.0006%)
 cadmium sulfide: (Whole conc. entered as: 0.3 mg/kg or 0.0000344%)
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000687%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 23 mg/kg or 0.00231%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000893%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000893%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 13 mg/kg or 0.00181%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000363%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 1.1 mg/kg or 0.000147%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000446%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 49 mg/kg or 0.00691%)
 pH: (Whole conc. entered as: 7.7 pH, converted to conc.: 7.7 pH or 7.7 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000893%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000134%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.0000893%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000893%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 74 mg/kg or 0.0183%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP544[1]

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

Sample details

<p>Sample Name: TP544[1]</p> <p>Sample Depth: 1.2 m</p> <p>Moisture content: 18% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 18%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 7 mg/kg or 0.000783%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000424%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 0.9 mg/kg or 0.000212%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 3.7 mg/kg or 0.00421%)

cadmium sulfide: (Whole conc. entered as: 0.4 mg/kg or 0.0000436%)

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000652%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 33 mg/kg or 0.00315%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000847%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000847%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 13 mg/kg or 0.00172%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000344%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 2.4 mg/kg or 0.000305%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000424%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 46 mg/kg or 0.00616%)

pH: (Whole conc. entered as: 7.2 pH, converted to conc.:7.2 pH or 7.2 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000847%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000127%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000847%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000847%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 90 mg/kg or 0.0212%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP546

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: TP546</p> <p>Sample Depth: 0.3 m</p> <p>Moisture content: 24% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00177%)

Determinands (Moisture content: 24%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Whole conc. entered as: 9.7 mg/kg or 0.00103%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000806%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000403%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
- beryllium oxide: (Whole conc. entered as: 0.9 mg/kg or 0.000201%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.5 mg/kg or 0.00271%)
- cadmium sulfide: (Whole conc. entered as: 0.4 mg/kg or 0.0000415%)
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.00062%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 25 mg/kg or 0.00227%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000806%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
- lead chromate: (Whole conc. entered as: 25 mg/kg or 0.00314%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000327%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 1.7 mg/kg or 0.000206%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000403%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 24 mg/kg or 0.00306%)
- pH: (Whole conc. entered as: 7.3 pH, converted to conc.: 7.3 pH or 7.3 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000121%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000806%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 22 mg/kg or 0.00177%)
zinc chromate: (Whole conc. entered as: 92 mg/kg or 0.0206%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: TP549

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: TP549</p> <p>Sample Depth: 0.3 m</p> <p>Moisture content: 21% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00884%)

Determinands (Moisture content: 21%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: 0.38 mg/kg or 0.0000314%)
- arsenic trioxide: (Whole conc. entered as: 8.4 mg/kg or 0.000917%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 2.5 mg/kg or 0.000207%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 2.7 mg/kg or 0.000223%)
- benzo[b]fluoranthene: (Whole conc. entered as: 3.7 mg/kg or 0.000306%)
- benzo[ghi]perylene: (Whole conc. entered as: 2.1 mg/kg or 0.000174%)
- benzo[k]fluoranthene: (Whole conc. entered as: 1.4 mg/kg or 0.000116%)
- beryllium oxide: (Whole conc. entered as: 1 mg/kg or 0.000229%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.6 mg/kg or 0.00289%)
- cadmium sulfide: (Whole conc. entered as: 0.7 mg/kg or 0.0000744%)
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000636%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 49 mg/kg or 0.00456%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: 0.21 mg/kg or 0.0000174%)
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 5 mg/kg or 0.000413%)
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: 1.7 mg/kg or 0.00014%)
- lead chromate: (Whole conc. entered as: 27 mg/kg or 0.00348%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000336%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 4.2 mg/kg or 0.000521%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000413%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 37 mg/kg or 0.00483%)
- pH: (Whole conc. entered as: 7.3 pH, converted to conc.: 7.3 pH or 7.3 pH)
- phenanthrene: (Whole conc. entered as: 2 mg/kg or 0.000165%)

pyrene: (Whole conc. entered as: 4.1 mg/kg or 0.000339%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000124%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 107 mg/kg or 0.00884%)
zinc chromate: (Whole conc. entered as: 120 mg/kg or 0.0275%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "dibenz[a,h]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: TP552

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: TP552</p> <p>Sample Depth: 0.2 m</p> <p>Moisture content: 29% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00829%)

Determinands (Moisture content: 29%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: 0.59 mg/kg or 0.0000457%)
- arsenic trioxide: (Whole conc. entered as: 8.4 mg/kg or 0.00086%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000775%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 3.6 mg/kg or 0.000279%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 3.6 mg/kg or 0.000279%)
- benzo[b]fluoranthene: (Whole conc. entered as: 4.7 mg/kg or 0.000364%)
- benzo[ghi]perylene: (Whole conc. entered as: 2.5 mg/kg or 0.000194%)
- benzo[k]fluoranthene: (Whole conc. entered as: 1.7 mg/kg or 0.000132%)
- beryllium oxide: (Whole conc. entered as: 1.2 mg/kg or 0.000258%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.4 mg/kg or 0.0025%)
- cadmium sulfide: (Whole conc. entered as: 0.5 mg/kg or 0.0000498%)
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000596%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 72 mg/kg or 0.00628%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000775%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: 0.28 mg/kg or 0.0000217%)
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000775%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 7 mg/kg or 0.000543%)
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: 1.9 mg/kg or 0.000147%)
- lead chromate: (Whole conc. entered as: 29 mg/kg or 0.00351%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000315%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 3.5 mg/kg or 0.000407%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000388%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 38 mg/kg or 0.00465%)
- pH: (Whole conc. entered as: 7.4 pH, converted to conc.: 7.4 pH or 7.4 pH)
- phenanthrene: (Whole conc. entered as: 2.6 mg/kg or 0.000202%)

pyrene: (Whole conc. entered as: 6 mg/kg or 0.000465%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000116%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000775%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 107 mg/kg or 0.00829%)
zinc chromate: (Whole conc. entered as: 130 mg/kg or 0.028%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "dibenz[a,h]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: TP552[1]

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: TP552[1]</p> <p>Sample Depth: 0.5 m</p> <p>Moisture content: 28% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00531%)

Determinands (Moisture content: 28%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: 0.51 mg/kg or 0.0000398%)
- arsenic trioxide: (Whole conc. entered as: 8.7 mg/kg or 0.000897%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000781%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 1.9 mg/kg or 0.000148%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 2 mg/kg or 0.000156%)
- benzo[b]fluoranthene: (Whole conc. entered as: 2 mg/kg or 0.000156%)
- benzo[ghi]perylene: (Whole conc. entered as: 1.2 mg/kg or 0.0000938%)
- benzo[k]fluoranthene: (Whole conc. entered as: 1.1 mg/kg or 0.0000859%)
- beryllium oxide: (Whole conc. entered as: 1.2 mg/kg or 0.00026%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 4.3 mg/kg or 0.00451%)
- cadmium sulfide: (Whole conc. entered as: 0.6 mg/kg or 0.0000602%)
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000601%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 38 mg/kg or 0.00334%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000781%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000781%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 4.6 mg/kg or 0.000359%)
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: 0.96 mg/kg or 0.000075%)
- lead chromate: (Whole conc. entered as: 33 mg/kg or 0.00402%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000317%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 1 mg/kg or 0.000117%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000391%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 28 mg/kg or 0.00346%)
- pH: (Whole conc. entered as: 6.2 pH, converted to conc.: 6.2 pH or 6.2 pH)
- phenanthrene: (Whole conc. entered as: 2 mg/kg or 0.000156%)

pyrene: (Whole conc. entered as: 4.1 mg/kg or 0.00032%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000117%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000781%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: 68 mg/kg or 0.00531%)

zinc chromate: (Whole conc. entered as: 110 mg/kg or 0.0238%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: TP552[2]

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

Sample details

Sample Name: TP552[2] Sample Depth: 1.1 m Moisture content: 19% (dry weight correction)	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
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Hazard properties

None identified

Determinands (Moisture content: 19%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 9.9 mg/kg or 0.0011%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.0000042%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 1.2 mg/kg or 0.00028%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.6 mg/kg or 0.000677%)
 cadmium sulfide: (Whole conc. entered as: 0.7 mg/kg or 0.0000756%)
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000646%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 33 mg/kg or 0.00312%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 17 mg/kg or 0.00223%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000341%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 5.5 mg/kg or 0.000693%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.0000042%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 38 mg/kg or 0.00504%)
 pH: (Whole conc. entered as: 6.7 pH, converted to conc.:6.7 pH or 6.7 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000126%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 110 mg/kg or 0.0256%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: RC303

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

Sample details

<p>Sample Name: RC303</p> <p>Sample Depth: 0.3 m</p> <p>Moisture content: 21% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 21%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 11 mg/kg or 0.0012%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000413%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.5 mg/kg or 0.000344%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1 mg/kg or 0.00111%)

cadmium sulfide: (Whole conc. entered as: 0.5 mg/kg or 0.0000531%)

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000636%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 26 mg/kg or 0.00242%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 23 mg/kg or 0.00296%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000336%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 0.9 mg/kg or 0.000112%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000413%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 40 mg/kg or 0.00522%)

pH: (Whole conc. entered as: 7 pH, converted to conc.: 7 pH or 7 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000124%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 93 mg/kg or 0.0213%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: CP101

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

Sample details

<p>Sample Name: CP101</p> <p>Sample Depth: 0.25 m</p> <p>Moisture content: 19% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 19%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 8 mg/kg or 0.000888%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.0000042%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.2 mg/kg or 0.00028%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1 mg/kg or 0.00113%)

cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000216%) **IGNORED Because: "<LOD"**

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000646%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 18 mg/kg or 0.0017%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 12 mg/kg or 0.00157%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000341%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 1.5 mg/kg or 0.000189%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.0000042%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 19 mg/kg or 0.00252%)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000126%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 69 mg/kg or 0.0161%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: CP101[1]

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

Sample details

Sample Name: CP101[1] Sample Depth: 0.5 m Moisture content: 20% (dry weight correction)	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
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Hazard properties

None identified

Determinands (Moisture content: 20%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 8.9 mg/kg or 0.000979%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 1.6 mg/kg or 0.00037%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.3 mg/kg or 0.00145%)
 cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000214%) **IGNORED Because: "<LOD"**
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000641%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 20 mg/kg or 0.00188%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 12 mg/kg or 0.00156%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000338%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 1.8 mg/kg or 0.000225%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 25 mg/kg or 0.00329%)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000125%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 93 mg/kg or 0.0215%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: CP109

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

Sample details

Sample Name: CP109 Sample Depth: 0.25 m Moisture content: 27% (dry weight correction)	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
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Hazard properties

None identified

Determinands (Moisture content: 27%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 7.5 mg/kg or 0.00078%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000394%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 1.7 mg/kg or 0.000372%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.3 mg/kg or 0.00243%)
 cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000202%) **IGNORED Because: "<LOD"**
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000606%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 34 mg/kg or 0.00301%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 19 mg/kg or 0.00233%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.000032%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 2 mg/kg or 0.000236%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000394%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 43 mg/kg or 0.00535%)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000118%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 120 mg/kg or 0.0262%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: CP109[1]

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

Sample details

<p>Sample Name: CP109[1]</p> <p>Sample Depth: 0.5 m</p> <p>Moisture content: 20% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 20%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 8.3 mg/kg or 0.000913%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.6 mg/kg or 0.00037%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.8 mg/kg or 0.000895%)

cadmium sulfide: (Whole conc. entered as: 0.2 mg/kg or 0.0000214%)

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000641%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 34 mg/kg or 0.00319%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 16 mg/kg or 0.00208%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000338%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 2.7 mg/kg or 0.000338%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 42 mg/kg or 0.00553%)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000125%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 110 mg/kg or 0.0254%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: CC401



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

Sample details

<p>Sample Name: CC401</p> <p>Sample Depth: 0.4 m</p> <p>Moisture content: 7.1% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 03 * (Soil and stones containing hazardous substances)</p>
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Hazard properties

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.: 0.168%)

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.: 0.168%)

Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.168%)

Determinands (Moisture content: 7.1%, dry weight correction)

- acenaphthene: (Whole conc. entered as: 4.7 mg/kg or 0.000439%)
- acenaphthylene: (Whole conc. entered as: 0.29 mg/kg or 0.0000271%)
- anthracene: (Whole conc. entered as: 9 mg/kg or 0.00084%)
- arsenic trioxide: (Whole conc. entered as: 18 mg/kg or 0.00222%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000934%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 19 mg/kg or 0.00177%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 23 mg/kg or 0.00215%)
- benzo[b]fluoranthene: (Whole conc. entered as: 26 mg/kg or 0.00243%)
- benzo[ghi]perylene: (Whole conc. entered as: 15 mg/kg or 0.0014%)
- benzo[k]fluoranthene: (Whole conc. entered as: 11 mg/kg or 0.00103%)

beryllium oxide: (Whole conc. entered as: 2.8 mg/kg or 0.000726%)
boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.3 mg/kg or 0.000376%)
cadmium sulfide: (Whole conc. entered as: 0.4 mg/kg or 0.000048%)
chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000718%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Whole conc. entered as: 67 mg/kg or 0.00704%)
cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000934%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: 1.6 mg/kg or 0.000149%)
ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000934%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: 44 mg/kg or 0.00411%)
fluorene: (Whole conc. entered as: 3.6 mg/kg or 0.000336%)
indeno[123-cd]pyrene: (Whole conc. entered as: 13 mg/kg or 0.00121%)
lead chromate: (Whole conc. entered as: 36 mg/kg or 0.00524%)
mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000379%) **IGNORED Because: "<LOD"**
molybdenum(VI) oxide: (Whole conc. entered as: 1.1 mg/kg or 0.000154%)
naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.0000467%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Whole conc. entered as: 21 mg/kg or 0.0031%)
pH: (Whole conc. entered as: 8.5 pH, converted to conc.:8.5 pH or 8.5 pH)
phenanthrene: (Whole conc. entered as: 17 mg/kg or 0.00159%)
pyrene: (Whole conc. entered as: 36 mg/kg or 0.00336%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.00014%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000934%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 1800 mg/kg or 0.168%)
zinc chromate: (Whole conc. entered as: 93 mg/kg or 0.0241%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluorene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "acenaphthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "dibenz[a,h]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: CC401[1]

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: CC401[1]</p> <p>Sample Depth: 0.7 m</p> <p>Moisture content: 7.5% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00595%)

Determinands (Moisture content: 7.5%, dry weight correction)

- acenaphthene: (Whole conc. entered as: 0.23 mg/kg or 0.0000214%)
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.0000093%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: 0.36 mg/kg or 0.0000335%)
- arsenic trioxide: (Whole conc. entered as: 16 mg/kg or 0.00197%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.000093%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 0.86 mg/kg or 0.00008%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.75 mg/kg or 0.0000698%)
- benzo[b]fluoranthene: (Whole conc. entered as: 0.77 mg/kg or 0.0000716%)
- benzo[ghi]perylene: (Whole conc. entered as: 0.58 mg/kg or 0.000054%)
- benzo[k]fluoranthene: (Whole conc. entered as: 0.49 mg/kg or 0.0000456%)
- beryllium oxide: (Whole conc. entered as: 4 mg/kg or 0.00103%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: <0.2 mg/kg or <0.00025%) **IGNORED Because: "<LOD"**
- cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000239%) **IGNORED Because: "<LOD"**
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000716%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 100 mg/kg or 0.0105%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.000093%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000093%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.000093%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 2 mg/kg or 0.000186%)
- fluorene: (Whole conc. entered as: 0.19 mg/kg or 0.0000177%)
- indeno[123-cd]pyrene: (Whole conc. entered as: 0.43 mg/kg or 0.00004%)
- lead chromate: (Whole conc. entered as: 43 mg/kg or 0.00624%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000378%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 3 mg/kg or 0.000419%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000465%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 63 mg/kg or 0.00926%)
- pH: (Whole conc. entered as: 8.4 pH, converted to conc.:8.4 pH or 8.4 pH)

phenanthrene: (Whole conc. entered as: 1.1 mg/kg or 0.000102%)
pyrene: (Whole conc. entered as: 1.7 mg/kg or 0.000158%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.00014%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.000093%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 64 mg/kg or 0.00595%)
zinc chromate: (Whole conc. entered as: 130 mg/kg or 0.0335%)

Notes utilised in assessment

C14: Step 5

"Identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluorene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "acenaphthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: CC401[2]

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: CC401[2]</p> <p>Sample Depth: 0.9 m</p> <p>Moisture content: 16% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00172%)

Determinands (Moisture content: 16%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Whole conc. entered as: 17 mg/kg or 0.00193%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000862%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000431%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
- beryllium oxide: (Whole conc. entered as: 1.9 mg/kg or 0.000455%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.5 mg/kg or 0.00289%)
- cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000222%) **IGNORED Because: "<LOD"**
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000663%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 35 mg/kg or 0.0034%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000862%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000862%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
- lead chromate: (Whole conc. entered as: 26 mg/kg or 0.0035%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.000035%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 1.1 mg/kg or 0.000142%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000431%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 43 mg/kg or 0.00586%)
- pH: (Whole conc. entered as: 8 pH, converted to conc.: 8 pH or 8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000862%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000129%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000862%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 20 mg/kg or 0.00172%)
zinc chromate: (Whole conc. entered as: 110 mg/kg or 0.0263%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: CC405

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: CC405</p> <p>Sample Depth: 0.4 m</p> <p>Moisture content: 6.9% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00271%)

Determinands (Moisture content: 6.9%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000935%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000935%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: 0.13 mg/kg or 0.0000122%)
- arsenic trioxide: (Whole conc. entered as: 14 mg/kg or 0.00173%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000935%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000935%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000935%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000935%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000468%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000935%) **IGNORED Because: "<LOD"**
- beryllium oxide: (Whole conc. entered as: 0.6 mg/kg or 0.000156%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: <0.2 mg/kg or <0.000251%) **IGNORED Because: "<LOD"**
- cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.000024%) **IGNORED Because: "<LOD"**
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.00072%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 31 mg/kg or 0.00326%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000935%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000935%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000935%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 0.46 mg/kg or 0.000043%)
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000935%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000935%) **IGNORED Because: "<LOD"**
- lead chromate: (Whole conc. entered as: 4.7 mg/kg or 0.000686%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.000038%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 1.2 mg/kg or 0.000168%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000468%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 12 mg/kg or 0.00177%)

pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)
phenanthrene: (Whole conc. entered as: 0.54 mg/kg or 0.0000505%)
pyrene: (Whole conc. entered as: 0.36 mg/kg or 0.0000337%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.00014%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000935%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 29 mg/kg or 0.00271%)
zinc chromate: (Whole conc. entered as: 25 mg/kg or 0.00649%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: CC409

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

Sample details

<p>Sample Name: CC409</p> <p>Sample Depth: 0.9 m</p> <p>Moisture content: 13% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 13%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 17 mg/kg or 0.00199%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.0000442%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.8 mg/kg or 0.000442%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.2 mg/kg or 0.00143%)

cadmium sulfide: (Whole conc. entered as: 0.3 mg/kg or 0.0000341%)

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000681%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 37 mg/kg or 0.00369%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 31 mg/kg or 0.00428%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000359%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 1.2 mg/kg or 0.000159%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.0000442%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 42 mg/kg or 0.00587%)

pH: (Whole conc. entered as: 7.8 pH, converted to conc.: 7.8 pH or 7.8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000133%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000885%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 100 mg/kg or 0.0245%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: CP115

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: CP115</p> <p>Sample Depth: 1.5 m</p> <p>Moisture content: 0% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0134%)

Determinands (Moisture content: 0%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Whole conc. entered as: 8.8 mg/kg or 0.00116%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0001%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.000005%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- beryllium oxide: (Whole conc. entered as: 2 mg/kg or 0.000555%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.8 mg/kg or 0.00242%)
- cadmium sulfide: (Whole conc. entered as: 1 mg/kg or 0.000129%)
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000769%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 40 mg/kg or 0.0045%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0001%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0001%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- lead chromate: (Whole conc. entered as: 28 mg/kg or 0.00437%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000406%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 5 mg/kg or 0.00075%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.000005%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 73 mg/kg or 0.0115%)
- pH: (Whole conc. entered as: 7.3 pH, converted to conc.:7.3 pH or 7.3 pH)
- phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.00015%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0001%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 134 mg/kg or 0.0134%)
zinc chromate: (Whole conc. entered as: 140 mg/kg or 0.0388%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: CP115[1]

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: CP115[1]</p> <p>Sample Depth: 2.2 m</p> <p>Moisture content: 0% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0022%)

Determinands (Moisture content: 0%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Whole conc. entered as: 5.9 mg/kg or 0.000779%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0001%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.000005%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- beryllium oxide: (Whole conc. entered as: 1.3 mg/kg or 0.000361%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.2 mg/kg or 0.00161%)
- cadmium sulfide: (Whole conc. entered as: 0.9 mg/kg or 0.000116%)
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000769%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 38 mg/kg or 0.00428%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0001%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0001%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- lead chromate: (Whole conc. entered as: 22 mg/kg or 0.00343%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000406%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 4.6 mg/kg or 0.00069%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.000005%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 34 mg/kg or 0.00537%)
- pH: (Whole conc. entered as: 6.2 pH, converted to conc.:6.2 pH or 6.2 pH)
- phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.00015%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0001%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 22 mg/kg or 0.0022%)
zinc chromate: (Whole conc. entered as: 51 mg/kg or 0.0141%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: HP703

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

Sample details

<p>Sample Name: HP703</p> <p>Sample Depth: 0.2 m</p> <p>Moisture content: 21% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 21%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 15 mg/kg or 0.00164%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000413%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.6 mg/kg or 0.000367%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.2 mg/kg or 0.00133%)

cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000212%) **IGNORED Because: "<LOD"**

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000636%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 31 mg/kg or 0.00288%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 18 mg/kg or 0.00232%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000336%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 0.9 mg/kg or 0.000112%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000413%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 42 mg/kg or 0.00548%)

pH: (Whole conc. entered as: 7.4 pH, converted to conc.: 7.4 pH or 7.4 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000826%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000124%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000826%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 77 mg/kg or 0.0177%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: HP703[1]

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

Sample details

Sample Name: HP703[1]	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.5 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 28% (dry weight correction)	

Hazard properties

None identified

Determinands (Moisture content: 28%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 17 mg/kg or 0.00175%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000781%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000391%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 2.1 mg/kg or 0.000455%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.2 mg/kg or 0.00126%)
 cadmium sulfide: (Whole conc. entered as: 0.3 mg/kg or 0.0000301%)
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000601%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 41 mg/kg or 0.00361%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000781%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000781%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 290 mg/kg or 0.0353%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000317%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 1.3 mg/kg or 0.000152%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000391%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 41 mg/kg or 0.00506%)
 pH: (Whole conc. entered as: 7.1 pH, converted to conc.:7.1 pH or 7.1 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000781%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000117%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.0000781%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000781%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 130 mg/kg or 0.0282%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: HP704

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

Sample details

Sample Name: HP704	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 31% (dry weight correction)		

Hazard properties

None identified

Determinands (Moisture content: 31%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 15 mg/kg or 0.00151%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.0000763%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000382%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 2 mg/kg or 0.000424%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 4.3 mg/kg or 0.00441%)

cadmium sulfide: (Whole conc. entered as: 0.4 mg/kg or 0.0000392%)

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000587%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 40 mg/kg or 0.00344%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000763%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000763%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 41 mg/kg or 0.00488%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.000031%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 1.9 mg/kg or 0.000218%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000382%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 45 mg/kg or 0.00543%)

pH: (Whole conc. entered as: 6.8 pH, converted to conc.:6.8 pH or 6.8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000115%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000763%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000763%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 140 mg/kg or 0.0296%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: HP704[1]

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: HP704[1]</p> <p>Sample Depth: 0.4 m</p> <p>Moisture content: 23% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00146%)

Determinands (Moisture content: 23%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Whole conc. entered as: 13 mg/kg or 0.0014%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000813%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000407%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**
- beryllium oxide: (Whole conc. entered as: 2.1 mg/kg or 0.000474%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.7 mg/kg or 0.00186%)
- cadmium sulfide: (Whole conc. entered as: 0.2 mg/kg or 0.0000209%)
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000625%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 26 mg/kg or 0.00238%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000813%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000813%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**
- lead chromate: (Whole conc. entered as: 18 mg/kg or 0.00228%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.000033%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 1.2 mg/kg or 0.000146%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000407%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 49 mg/kg or 0.00629%)
- pH: (Whole conc. entered as: 7.4 pH, converted to conc.: 7.4 pH or 7.4 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000813%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000122%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000813%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 18 mg/kg or 0.00146%)
zinc chromate: (Whole conc. entered as: 120 mg/kg or 0.0271%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: HP707

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

Sample details

Sample Name: HP707	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 31% (dry weight correction)		

Hazard properties

None identified

Determinands (Moisture content: 31%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 15 mg/kg or 0.00151%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000763%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000382%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 2 mg/kg or 0.000424%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 4 mg/kg or 0.0041%)
 cadmium sulfide: (Whole conc. entered as: 0.3 mg/kg or 0.0000294%)
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000587%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 38 mg/kg or 0.00327%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000763%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000763%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 44 mg/kg or 0.00524%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.000031%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 1.6 mg/kg or 0.000183%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000382%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 42 mg/kg or 0.00506%)
 pH: (Whole conc. entered as: 6.5 pH, converted to conc.:6.5 pH or 6.5 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000763%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000115%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.0000763%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000763%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 130 mg/kg or 0.0275%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: SD01

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: SD01</p> <p>Sample Depth: 0 m</p> <p>Moisture content: 44% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0174%)

Determinands (Moisture content: 44%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000694%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000694%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: 0.22 mg/kg or 0.0000153%)
- arsenic trioxide: (Whole conc. entered as: 16 mg/kg or 0.00147%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000694%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 3.9 mg/kg or 0.000271%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 5.6 mg/kg or 0.000389%)
- benzo[b]fluoranthene: (Whole conc. entered as: 5.1 mg/kg or 0.000354%)
- benzo[ghi]perylene: (Whole conc. entered as: 4.1 mg/kg or 0.000285%)
- benzo[k]fluoranthene: (Whole conc. entered as: 3.5 mg/kg or 0.000243%)
- beryllium oxide: (Whole conc. entered as: 1.6 mg/kg or 0.000308%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.3 mg/kg or 0.00121%)
- cadmium sulfide: (Whole conc. entered as: 0.7 mg/kg or 0.0000625%)
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000534%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 59 mg/kg or 0.00461%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000694%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: 0.32 mg/kg or 0.0000222%)
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000694%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 6.9 mg/kg or 0.000479%)
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000694%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: 3.2 mg/kg or 0.000222%)
- lead chromate: (Whole conc. entered as: 93 mg/kg or 0.0101%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000282%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 2.2 mg/kg or 0.000229%)
- naphthalene: (Whole conc. entered as: 0.17 mg/kg or 0.0000118%)
- nickel dihydroxide: (Whole conc. entered as: 41 mg/kg or 0.0045%)
- pH: (Whole conc. entered as: 7.3 pH, converted to conc.: 7.3 pH or 7.3 pH)
- phenanthrene: (Whole conc. entered as: 1.2 mg/kg or 0.0000833%)

pyrene: (Whole conc. entered as: 6.3 mg/kg or 0.000438%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000104%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000694%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: 250 mg/kg or 0.0174%)

zinc chromate: (Whole conc. entered as: 220 mg/kg or 0.0424%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "dibenz[a,h]anthracene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "naphthalene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: SD02

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: SD02</p> <p>Sample Depth: 0 m</p> <p>Moisture content: 53% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0176%)

Determinands (Moisture content: 53%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000654%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000654%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: 0.29 mg/kg or 0.000019%)
- arsenic trioxide: (Whole conc. entered as: 19 mg/kg or 0.00164%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000654%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 3.6 mg/kg or 0.000235%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 4.9 mg/kg or 0.00032%)
- benzo[b]fluoranthene: (Whole conc. entered as: 6.5 mg/kg or 0.000425%)
- benzo[ghi]perylene: (Whole conc. entered as: 4 mg/kg or 0.000261%)
- benzo[k]fluoranthene: (Whole conc. entered as: 2.3 mg/kg or 0.00015%)
- beryllium oxide: (Whole conc. entered as: 1.6 mg/kg or 0.00029%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.2 mg/kg or 0.00193%)
- cadmium sulfide: (Whole conc. entered as: 0.7 mg/kg or 0.0000588%)
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000503%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 65 mg/kg or 0.00478%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000654%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: 0.41 mg/kg or 0.0000268%)
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000654%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 6.6 mg/kg or 0.000431%)
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000654%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: 3.3 mg/kg or 0.000216%)
- lead chromate: (Whole conc. entered as: 86 mg/kg or 0.00877%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000265%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 2 mg/kg or 0.000196%)
- naphthalene: (Whole conc. entered as: 0.19 mg/kg or 0.0000124%)
- nickel dihydroxide: (Whole conc. entered as: 36 mg/kg or 0.00372%)
- pH: (Whole conc. entered as: 7.3 pH, converted to conc.: 7.3 pH or 7.3 pH)
- phenanthrene: (Whole conc. entered as: 1.4 mg/kg or 0.0000915%)

pyrene: (Whole conc. entered as: 5.9 mg/kg or 0.000386%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000098%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000654%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 270 mg/kg or 0.0176%)
zinc chromate: (Whole conc. entered as: 190 mg/kg or 0.0345%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "dibenz[a,h]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "naphthalene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: SD03

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: SD03</p> <p>Sample Depth: 0 m</p> <p>Moisture content: 53% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0168%)

Determinands (Moisture content: 53%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000654%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000654%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: 0.18 mg/kg or 0.0000118%)

arsenic trioxide: (Whole conc. entered as: 8.9 mg/kg or 0.000768%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.0000654%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: 3.2 mg/kg or 0.000209%)

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 4.4 mg/kg or 0.000288%)

benzo[b]fluoranthene: (Whole conc. entered as: 5.2 mg/kg or 0.00034%)

benzo[ghi]perylene: (Whole conc. entered as: 3.4 mg/kg or 0.000222%)

benzo[k]fluoranthene: (Whole conc. entered as: 2.2 mg/kg or 0.000144%)

beryllium oxide: (Whole conc. entered as: 0.9 mg/kg or 0.000163%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 4.4 mg/kg or 0.00386%)

cadmium sulfide: (Whole conc. entered as: 0.2 mg/kg or 0.0000168%)

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000503%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 34 mg/kg or 0.0025%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000654%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: 0.24 mg/kg or 0.0000157%)

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000654%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: 4.7 mg/kg or 0.000307%)

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000654%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: 2.9 mg/kg or 0.00019%)

lead chromate: (Whole conc. entered as: 30 mg/kg or 0.00306%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000265%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 1.3 mg/kg or 0.000127%)

naphthalene: (Whole conc. entered as: 0.23 mg/kg or 0.000015%)

nickel dihydroxide: (Whole conc. entered as: 24 mg/kg or 0.00248%)

pH: (Whole conc. entered as: 7.2 pH, converted to conc.: 7.2 pH or 7.2 pH)

phenanthrene: (Whole conc. entered as: 0.69 mg/kg or 0.0000451%)

pyrene: (Whole conc. entered as: 4.5 mg/kg or 0.000294%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000098%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000654%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 257 mg/kg or 0.0168%)
zinc chromate: (Whole conc. entered as: 120 mg/kg or 0.0218%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "dibenz[a,h]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "naphthalene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: SD04

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: SD04</p> <p>Sample Depth: 0 m</p> <p>Moisture content: 50% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0032%)

Determinands (Moisture content: 50%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000667%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000667%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: 0.15 mg/kg or 0.00001%)
- arsenic trioxide: (Whole conc. entered as: 12 mg/kg or 0.00106%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000667%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 1.1 mg/kg or 0.0000733%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 1.2 mg/kg or 0.00008%)
- benzo[b]fluoranthene: (Whole conc. entered as: 1.3 mg/kg or 0.0000867%)
- benzo[ghi]perylene: (Whole conc. entered as: 0.84 mg/kg or 0.000056%)
- benzo[k]fluoranthene: (Whole conc. entered as: 1 mg/kg or 0.0000667%)
- beryllium oxide: (Whole conc. entered as: 1.3 mg/kg or 0.000241%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 3.3 mg/kg or 0.00295%)
- cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000171%) **IGNORED Because: "<LOD"**
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000513%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 43 mg/kg or 0.00323%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000667%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: 0.1 mg/kg or 0.00000667%)
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000667%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 2.1 mg/kg or 0.00014%)
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000667%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: 0.65 mg/kg or 0.0000433%)
- lead chromate: (Whole conc. entered as: 20 mg/kg or 0.00208%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000271%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 2.6 mg/kg or 0.00026%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000333%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 28 mg/kg or 0.00295%)
- pH: (Whole conc. entered as: 7.3 pH, converted to conc.: 7.3 pH or 7.3 pH)
- phenanthrene: (Whole conc. entered as: 0.82 mg/kg or 0.0000547%)

pyrene: (Whole conc. entered as: 2.1 mg/kg or 0.00014%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.0001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000667%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 48 mg/kg or 0.0032%)
zinc chromate: (Whole conc. entered as: 98 mg/kg or 0.0181%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "dibenz[a,h]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: SD05

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

Sample details

Sample Name: SD05	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 42% (dry weight correction)		

Hazard properties

None identified

Determinands (Moisture content: 42%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000704%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000704%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000704%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 7.3 mg/kg or 0.000679%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000704%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000704%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000704%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000704%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000352%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000704%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 1.9 mg/kg or 0.000371%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 4.4 mg/kg or 0.00416%)
 cadmium sulfide: (Whole conc. entered as: 0.3 mg/kg or 0.0000272%)
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000542%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 48 mg/kg or 0.00381%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000704%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000704%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000704%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000704%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000704%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000704%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 15 mg/kg or 0.00165%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000286%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 3.8 mg/kg or 0.000401%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000352%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 94 mg/kg or 0.0105%)
 pH: (Whole conc. entered as: 7.2 pH, converted to conc.:7.2 pH or 7.2 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000704%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000704%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000106%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.0000704%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000704%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 180 mg/kg or 0.0352%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: SD06

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: SD06</p> <p>Sample Depth: 0 m</p> <p>Moisture content: 52% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00132%)

Determinands (Moisture content: 52%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000658%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000658%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000658%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Whole conc. entered as: 7.6 mg/kg or 0.00066%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000658%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000658%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000658%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000658%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000329%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000658%) **IGNORED Because: "<LOD"**
- beryllium oxide: (Whole conc. entered as: 1 mg/kg or 0.000183%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.5 mg/kg or 0.00133%)
- cadmium sulfide: (Whole conc. entered as: 0.4 mg/kg or 0.0000338%)
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000506%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 29 mg/kg or 0.00215%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000658%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000658%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000658%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000658%) **IGNORED Because: "<LOD"**
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000658%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000658%) **IGNORED Because: "<LOD"**
- lead chromate: (Whole conc. entered as: 20 mg/kg or 0.00205%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000267%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 1.2 mg/kg or 0.000118%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000329%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 29 mg/kg or 0.00301%)
- pH: (Whole conc. entered as: 7.2 pH, converted to conc.: 7.2 pH or 7.2 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000658%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000658%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.0000987%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000658%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 20 mg/kg or 0.00132%)
zinc chromate: (Whole conc. entered as: 100 mg/kg or 0.0183%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: SD07

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

Sample details

Sample Name: SD07	LoW Code:	
Sample Depth: 0 m	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content: 62% (dry weight correction)	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

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

Hazard Statements hit:

Carc. 1A; 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:

zinc chromate: (conc.: 1.164%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R50/53 "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

zinc chromate: (conc.: 1.164%)

Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0889%)

Determinands (Moisture content: 62%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000617%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000617%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000617%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Whole conc. entered as: 12 mg/kg or 0.000978%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000617%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 0.47 mg/kg or 0.000029%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.72 mg/kg or 0.0000444%)
- benzo[b]fluoranthene: (Whole conc. entered as: 0.98 mg/kg or 0.0000605%)
- benzo[ghi]perylene: (Whole conc. entered as: 0.89 mg/kg or 0.0000549%)
- benzo[k]fluoranthene: (Whole conc. entered as: 0.62 mg/kg or 0.0000383%)
- beryllium oxide: (Whole conc. entered as: 1 mg/kg or 0.000171%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.5 mg/kg or 0.00207%)
cadmium sulfide: (Whole conc. entered as: 5.8 mg/kg or 0.00046%)
chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000475%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Whole conc. entered as: 150 mg/kg or 0.0104%)
cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000617%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000617%) **IGNORED Because: "<LOD"**
ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000617%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: 0.88 mg/kg or 0.0000543%)
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000617%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: 0.64 mg/kg or 0.0000395%)
lead chromate: (Whole conc. entered as: 320 mg/kg or 0.0308%)
mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000251%) **IGNORED Because: "<LOD"**
molybdenum(VI) oxide: (Whole conc. entered as: 5.1 mg/kg or 0.000472%)
naphthalene: (Whole conc. entered as: 0.27 mg/kg or 0.0000167%)
nickel dihydroxide: (Whole conc. entered as: 42 mg/kg or 0.00409%)
pH: (Whole conc. entered as: 7.2 pH, converted to conc.: 7.2 pH or 7.2 pH)
phenanthrene: (Whole conc. entered as: 0.28 mg/kg or 0.0000173%)
pyrene: (Whole conc. entered as: 0.91 mg/kg or 0.0000562%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.0000926%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000617%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 1440 mg/kg or 0.0889%)
zinc chromate: (Whole conc. entered as: 6800 mg/kg or 1.164%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "naphthalene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

C14: Step 6, Equation 1

"use the equations given in Table C14.3 to decide if the waste is hazardous by HP 14" , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: CP114

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

Sample details

<p>Sample Name: CP114</p> <p>Sample Depth: 0.25 m</p> <p>Moisture content: 20% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 20%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 8.1 mg/kg or 0.000891%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.2 mg/kg or 0.000278%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.9 mg/kg or 0.00101%)

cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000214%) **IGNORED Because: "<LOD"**

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000641%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 28 mg/kg or 0.00263%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: 0.39 mg/kg or 0.0000325%)

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 14 mg/kg or 0.00182%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000338%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 2.8 mg/kg or 0.00035%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 28 mg/kg or 0.00369%)

pH: (Whole conc. entered as: 7.2 pH, converted to conc.:7.2 pH or 7.2 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: 0.33 mg/kg or 0.0000275%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000125%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 82 mg/kg or 0.019%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: CP115[2]

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: CP115[2]</p> <p>Sample Depth: 0.25 m</p> <p>Moisture content: 9.9% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0346%)

Determinands (Moisture content: 9.9%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000091%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.0000091%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000091%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Whole conc. entered as: 9.1 mg/kg or 0.00109%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.000091%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 0.63 mg/kg or 0.0000573%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.81 mg/kg or 0.0000737%)
- benzo[b]fluoranthene: (Whole conc. entered as: 0.95 mg/kg or 0.0000864%)
- benzo[ghi]perylene: (Whole conc. entered as: 0.59 mg/kg or 0.0000537%)
- benzo[k]fluoranthene: (Whole conc. entered as: 0.49 mg/kg or 0.0000446%)
- beryllium oxide: (Whole conc. entered as: 0.4 mg/kg or 0.000101%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.4 mg/kg or 0.000489%)
- cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000234%) **IGNORED Because: "<LOD"**
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.0007%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 36 mg/kg or 0.00369%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.000091%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000091%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.000091%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 1.2 mg/kg or 0.000109%)
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.0000091%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: 0.48 mg/kg or 0.0000437%)
- lead chromate: (Whole conc. entered as: 36 mg/kg or 0.00511%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000369%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 1.1 mg/kg or 0.00015%)
- naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000455%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Whole conc. entered as: 17 mg/kg or 0.00244%)
- pH: (Whole conc. entered as: 7.5 pH, converted to conc.: 7.5 pH or 7.5 pH)
- phenanthrene: (Whole conc. entered as: 0.22 mg/kg or 0.00002%)

pyrene: (Whole conc. entered as: 1.2 mg/kg or 0.000109%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000136%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.000091%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 380 mg/kg or 0.0346%)
zinc chromate: (Whole conc. entered as: 74 mg/kg or 0.0187%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: CP115[3]

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: CP115[3]</p> <p>Sample Depth: 0.5 m</p> <p>Moisture content: 26% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00413%)

Determinands (Moisture content: 26%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000794%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000794%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000794%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Whole conc. entered as: 9.2 mg/kg or 0.000964%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000794%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 0.74 mg/kg or 0.0000587%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.89 mg/kg or 0.0000706%)
- benzo[b]fluoranthene: (Whole conc. entered as: 1.2 mg/kg or 0.0000952%)
- benzo[ghi]perylene: (Whole conc. entered as: 0.71 mg/kg or 0.0000563%)
- benzo[k]fluoranthene: (Whole conc. entered as: 0.49 mg/kg or 0.0000389%)
- beryllium oxide: (Whole conc. entered as: 1.3 mg/kg or 0.000286%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.3 mg/kg or 0.00032%)
- cadmium sulfide: (Whole conc. entered as: 0.2 mg/kg or 0.0000204%)
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000611%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 110 mg/kg or 0.00983%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000794%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000794%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000794%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 1.6 mg/kg or 0.000127%)
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000794%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: 0.55 mg/kg or 0.0000437%)
- lead chromate: (Whole conc. entered as: 25 mg/kg or 0.00309%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000322%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 4.3 mg/kg or 0.000512%)
- naphthalene: (Whole conc. entered as: 0.2 mg/kg or 0.0000159%)
- nickel dihydroxide: (Whole conc. entered as: 39 mg/kg or 0.00489%)
- pH: (Whole conc. entered as: 7.5 pH, converted to conc.: 7.5 pH or 7.5 pH)
- phenanthrene: (Whole conc. entered as: 0.42 mg/kg or 0.0000333%)

pyrene: (Whole conc. entered as: 1.5 mg/kg or 0.000119%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000119%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000794%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: 52 mg/kg or 0.00413%)

zinc chromate: (Whole conc. entered as: 240 mg/kg or 0.0528%)


Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "naphthalene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
- Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: CP115[4]

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

Sample details

Sample Name:	LoW Code:
CP115[4]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content: 20% (dry weight correction)	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

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.: 0.75%)

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.: 0.75%)

Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.75%)

Determinands (Moisture content: 20%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Whole conc. entered as: 9.9 mg/kg or 0.00109%)
benzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
benzo[a]anthracene: (Whole conc. entered as: 1.7 mg/kg or 0.000142%)
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 1.2 mg/kg or 0.0001%)
benzo[b]fluoranthene: (Whole conc. entered as: 1.7 mg/kg or 0.000142%)
benzo[ghi]perylene: (Whole conc. entered as: 0.89 mg/kg or 0.0000742%)
benzo[k]fluoranthene: (Whole conc. entered as: 0.6 mg/kg or 0.00005%)

beryllium oxide: (Whole conc. entered as: 1 mg/kg or 0.000231%)
boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.2 mg/kg or 0.00134%)
cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000214%) **IGNORED Because: "<LOD"**
chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000641%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Whole conc. entered as: 29 mg/kg or 0.00272%)
cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: 0.11 mg/kg or 0.00000917%)
ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: 3.6 mg/kg or 0.0003%)
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: 0.81 mg/kg or 0.0000675%)
lead chromate: (Whole conc. entered as: 20 mg/kg or 0.0026%)
mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000338%) **IGNORED Because: "<LOD"**
molybdenum(VI) oxide: (Whole conc. entered as: 2.3 mg/kg or 0.000288%)
naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Whole conc. entered as: 23 mg/kg or 0.00303%)
pH: (Whole conc. entered as: 7.4 pH, converted to conc.: 7.4 pH or 7.4 pH)
phenanthrene: (Whole conc. entered as: 3 mg/kg or 0.00025%)
pyrene: (Whole conc. entered as: 3.5 mg/kg or 0.000292%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000125%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 9000 mg/kg or 0.75%)
zinc chromate: (Whole conc. entered as: 92 mg/kg or 0.0213%)


Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "dibenz[a,h]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: CP102


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

Sample details

Sample Name:	LoW Code:
CP102	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m	
Moisture content: 20% (dry weight correction)	

Hazard properties

None identified

Determinands (Moisture content: 20%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 9.5 mg/kg or 0.00105%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.2 mg/kg or 0.000278%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.5 mg/kg or 0.00056%)

cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000214%) **IGNORED Because: "<LOD"**

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000641%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 17 mg/kg or 0.0016%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 11 mg/kg or 0.00143%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000338%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 1.6 mg/kg or 0.0002%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 25 mg/kg or 0.00329%)

pH: (Whole conc. entered as: 7.3 pH, converted to conc.: 7.3 pH or 7.3 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000125%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 86 mg/kg or 0.0199%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP504

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

Sample details

<p>Sample Name: TP504</p> <p>Sample Depth: 0.3 m</p> <p>Moisture content: 29% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 29%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 11 mg/kg or 0.00113%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.0000388%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.5 mg/kg or 0.000323%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.5 mg/kg or 0.000521%)

cadmium sulfide: (Whole conc. entered as: 0.6 mg/kg or 0.0000598%)

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000596%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 23 mg/kg or 0.00201%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000775%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000775%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 18 mg/kg or 0.00218%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000315%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 0.5 mg/kg or 0.0000581%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.0000388%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 46 mg/kg or 0.00563%)

pH: (Whole conc. entered as: 6.6 pH, converted to conc.:6.6 pH or 6.6 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000116%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000775%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000775%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 100 mg/kg or 0.0215%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP511

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

Sample details

<p>Sample Name: TP511</p> <p>Sample Depth: 0.6 m</p> <p>Moisture content: 25% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 25%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 6.2 mg/kg or 0.000655%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.000004%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.7 mg/kg or 0.000377%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 1.4 mg/kg or 0.0015%)

cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000206%) **IGNORED Because: "<LOD"**

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000615%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 37 mg/kg or 0.00333%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 19 mg/kg or 0.00237%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000325%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 4 mg/kg or 0.00048%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.000004%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 35 mg/kg or 0.00442%)

pH: (Whole conc. entered as: 5.6 pH, converted to conc.:5.6 pH or 5.6 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.00012%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 110 mg/kg or 0.0244%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP550

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

Sample details

Sample Name: TP550 Sample Depth: 0.4 m Moisture content: 27% (dry weight correction)	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
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Hazard properties

None identified

Determinands (Moisture content: 27%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Whole conc. entered as: 8.9 mg/kg or 0.000925%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000394%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Whole conc. entered as: 1.1 mg/kg or 0.00024%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.7 mg/kg or 0.00074%)
 cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000202%) **IGNORED Because: "<LOD"**
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000606%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 27 mg/kg or 0.00239%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 lead chromate: (Whole conc. entered as: 22 mg/kg or 0.0027%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.000032%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 1.8 mg/kg or 0.000213%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000394%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 24 mg/kg or 0.00298%)
 pH: (Whole conc. entered as: 7.3 pH, converted to conc.:7.3 pH or 7.3 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000787%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000118%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000787%) **IGNORED Because: "<LOD"**
 zinc chromate: (Whole conc. entered as: 85 mg/kg or 0.0186%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP550[1]

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

Sample details

<p>Sample Name: TP550[1]</p> <p>Sample Depth: 1.1 m</p> <p>Moisture content: 29% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 29%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 8.7 mg/kg or 0.00089%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.0000775%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000388%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 0.9 mg/kg or 0.000194%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.8 mg/kg or 0.000833%)

cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000199%) **IGNORED Because: "<LOD"**

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000596%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 39 mg/kg or 0.0034%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000775%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000775%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 19 mg/kg or 0.0023%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000315%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 2.4 mg/kg or 0.000279%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000388%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 18 mg/kg or 0.0022%)

pH: (Whole conc. entered as: 6.2 pH, converted to conc.:6.2 pH or 6.2 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000775%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000116%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000775%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000775%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 51 mg/kg or 0.011%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP551

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

Sample details

<p>Sample Name: TP551</p> <p>Sample Depth: 0.4 m</p> <p>Moisture content: 19% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 19%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 8.5 mg/kg or 0.000943%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.0000042%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.1 mg/kg or 0.000257%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.4 mg/kg or 0.000451%)

cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000216%) **IGNORED Because: "<LOD"**

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000646%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 21 mg/kg or 0.00199%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 9 mg/kg or 0.00118%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000341%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 2.6 mg/kg or 0.000328%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.0000042%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 24 mg/kg or 0.00319%)

pH: (Whole conc. entered as: 6.9 pH, converted to conc.:6.9 pH or 6.9 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.0000084%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000126%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.000084%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 64 mg/kg or 0.0149%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: TP554

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

Sample details

<p>Sample Name: TP554</p> <p>Sample Depth: 0.2 m</p> <p>Moisture content: 24% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 24%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 8.7 mg/kg or 0.000926%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000403%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.9 mg/kg or 0.000425%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.8 mg/kg or 0.00303%)

cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000207%) **IGNORED Because: "<LOD"**

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.00062%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 44 mg/kg or 0.004%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 20 mg/kg or 0.00252%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000327%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 2.8 mg/kg or 0.000339%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000403%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 73 mg/kg or 0.0093%)

pH: (Whole conc. entered as: 7.1 pH, converted to conc.:7.1 pH or 7.1 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000121%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.00000806%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 140 mg/kg or 0.0313%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: RC304

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

Sample details

<p>Sample Name: RC304</p> <p>Sample Depth: 0.3 m</p> <p>Moisture content: 20% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 20%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 17 mg/kg or 0.00187%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.8 mg/kg or 0.000416%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 2.2 mg/kg or 0.00246%)

cadmium sulfide: (Whole conc. entered as: 0.5 mg/kg or 0.0000536%)

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000641%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 30 mg/kg or 0.00281%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 35 mg/kg or 0.00455%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000338%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 1.4 mg/kg or 0.000175%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 44 mg/kg or 0.00579%)

pH: (Whole conc. entered as: 7 pH, converted to conc.: 7 pH or 7 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000125%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 130 mg/kg or 0.0301%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"


Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: CP108


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

Sample details

Sample Name:	LoW Code:
CP108	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m	
Moisture content: 25% (dry weight correction)	

Hazard properties

None identified

Determinands (Moisture content: 25%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Whole conc. entered as: 12 mg/kg or 0.00127%)

benzene: (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.000004%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

beryllium oxide: (Whole conc. entered as: 1.7 mg/kg or 0.000377%)

boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.9 mg/kg or 0.000967%)

cadmium sulfide: (Whole conc. entered as: 0.5 mg/kg or 0.0000514%)

chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000615%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Whole conc. entered as: 32 mg/kg or 0.00288%)

cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

lead chromate: (Whole conc. entered as: 33 mg/kg or 0.00412%)

mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000325%) **IGNORED Because: "<LOD"**

molybdenum(VI) oxide: (Whole conc. entered as: 1.4 mg/kg or 0.000168%)

naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.000004%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Whole conc. entered as: 48 mg/kg or 0.00607%)

pH: (Whole conc. entered as: 7.2 pH, converted to conc.:7.2 pH or 7.2 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.000008%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.00012%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <1 mg/kg or <0.00008%) **IGNORED Because: "<LOD"**

zinc chromate: (Whole conc. entered as: 120 mg/kg or 0.0266%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: CC419



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

Sample details

Sample Name: CC419	LoW Code:
Sample Depth: 0.4 m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content: 11% (dry weight correction)	Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

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.: 0.315%)

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.: 0.315%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R52/53 "Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

benzo[a]anthracene: (conc.: 0.00739%)

Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.315%)

Determinands (Moisture content: 11%, dry weight correction)

acenaphthene: (Whole conc. entered as: 35 mg/kg or 0.00315%)

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.0000901%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: 43 mg/kg or 0.00387%)
 arsenic trioxide: (Whole conc. entered as: 15 mg/kg or 0.00178%)
 benzene: (Whole conc. entered as: <1 mg/kg or <0.0000901%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: 82 mg/kg or 0.00739%)
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 80 mg/kg or 0.00721%)
 benzo[b]fluoranthene: (Whole conc. entered as: 91 mg/kg or 0.0082%)
 benzo[ghi]perylene: (Whole conc. entered as: 44 mg/kg or 0.00396%)
 benzo[k]fluoranthene: (Whole conc. entered as: 31 mg/kg or 0.00279%)
 beryllium oxide: (Whole conc. entered as: 1 mg/kg or 0.00025%)
 boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: <0.2 mg/kg or <0.000242%) **IGNORED Because: "<LOD"**
 cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000232%) **IGNORED Because: "<LOD"**
 chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000693%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Whole conc. entered as: 120 mg/kg or 0.0122%)
 cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000901%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: 8.7 mg/kg or 0.000784%)
 ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000901%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: 190 mg/kg or 0.0171%)
 fluorene: (Whole conc. entered as: 26 mg/kg or 0.00234%)
 indeno[123-cd]pyrene: (Whole conc. entered as: 38 mg/kg or 0.00342%)
 lead chromate: (Whole conc. entered as: 75 mg/kg or 0.0105%)
 mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000366%) **IGNORED Because: "<LOD"**
 molybdenum(VI) oxide: (Whole conc. entered as: 1.5 mg/kg or 0.000203%)
 naphthalene: (Whole conc. entered as: <0.05 mg/kg or <0.0000045%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Whole conc. entered as: 17 mg/kg or 0.00242%)
 pH: (Whole conc. entered as: 7.2 pH, converted to conc.: 7.2 pH or 7.2 pH)
 phenanthrene: (Whole conc. entered as: 130 mg/kg or 0.0117%)
 pyrene: (Whole conc. entered as: 160 mg/kg or 0.0144%)
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000135%) **IGNORED Because: "<LOD"**
 toluene: (Whole conc. entered as: <1 mg/kg or <0.0000901%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: 3500 mg/kg or 0.315%)
 zinc chromate: (Whole conc. entered as: 62 mg/kg or 0.0155%)

Notes utilised in assessment

C14: Step 4

"identify whether any individual ecotoxic substance is given a substance specific concentration limit in Annex VI, Table 3.2 to the CLP..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluorene"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "acenaphthene"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "dibenz[a,h]anthracene"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
 Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"

Classification of sample: CP111

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: CP111</p> <p>Sample Depth: 0.25 m</p> <p>Moisture content: 14% (dry weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00289%)

Determinands (Moisture content: 14%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000877%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000877%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000877%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Whole conc. entered as: 12 mg/kg or 0.00139%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000877%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 1.4 mg/kg or 0.000123%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 1.4 mg/kg or 0.000123%)
- benzo[b]fluoranthene: (Whole conc. entered as: 2.1 mg/kg or 0.000184%)
- benzo[ghi]perylene: (Whole conc. entered as: 0.81 mg/kg or 0.0000711%)
- benzo[k]fluoranthene: (Whole conc. entered as: 0.6 mg/kg or 0.0000526%)
- beryllium oxide: (Whole conc. entered as: 1.8 mg/kg or 0.000438%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.4 mg/kg or 0.000471%)
- cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000225%) **IGNORED Because: "<LOD"**
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000675%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 67 mg/kg or 0.00662%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000877%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: 0.12 mg/kg or 0.0000105%)
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000877%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 1.6 mg/kg or 0.00014%)
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000877%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: 0.8 mg/kg or 0.0000702%)
- lead chromate: (Whole conc. entered as: 97 mg/kg or 0.0133%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000356%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 5.8 mg/kg or 0.000763%)
- naphthalene: (Whole conc. entered as: 0.43 mg/kg or 0.0000377%)
- nickel dihydroxide: (Whole conc. entered as: 51 mg/kg or 0.00707%)
- pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)
- phenanthrene: (Whole conc. entered as: 0.48 mg/kg or 0.0000421%)

pyrene: (Whole conc. entered as: 1.7 mg/kg or 0.000149%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000132%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000877%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 33 mg/kg or 0.00289%)
zinc chromate: (Whole conc. entered as: 31 mg/kg or 0.00754%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "dibenz[a,h]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "naphthalene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: CP111[1]

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample Name: CP111[1]	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.5 m	Entry:	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)
Moisture content: 7.4% (dry weight correction)		

Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00289%)

Determinands (Moisture content: 7.4%, dry weight correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000931%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000931%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000931%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Whole conc. entered as: 7 mg/kg or 0.000861%)
- benzene: (Whole conc. entered as: <1 mg/kg or <0.0000931%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 0.2 mg/kg or 0.0000186%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.27 mg/kg or 0.0000251%)
- benzo[b]fluoranthene: (Whole conc. entered as: 0.36 mg/kg or 0.0000335%)
- benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000466%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: 0.19 mg/kg or 0.0000177%)
- beryllium oxide: (Whole conc. entered as: 0.3 mg/kg or 0.0000775%)
- boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: <0.2 mg/kg or <0.00025%) **IGNORED Because: "<LOD"**
- cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000239%) **IGNORED Because: "<LOD"**
- chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000716%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Whole conc. entered as: 20 mg/kg or 0.0021%)
- cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000931%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000931%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000931%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 0.37 mg/kg or 0.0000345%)
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000931%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000931%) **IGNORED Because: "<LOD"**
- lead chromate: (Whole conc. entered as: 8.6 mg/kg or 0.00125%)
- mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000378%) **IGNORED Because: "<LOD"**
- molybdenum(VI) oxide: (Whole conc. entered as: 0.9 mg/kg or 0.000126%)
- naphthalene: (Whole conc. entered as: 0.23 mg/kg or 0.0000214%)
- nickel dihydroxide: (Whole conc. entered as: 12 mg/kg or 0.00176%)
- pH: (Whole conc. entered as: 8.6 pH, converted to conc.:8.6 pH or 8.6 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000931%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: 0.36 mg/kg or 0.0000335%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.00014%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000931%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 31 mg/kg or 0.00289%)
zinc chromate: (Whole conc. entered as: 21 mg/kg or 0.00542%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ...", used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "naphthalene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: CP111[2]

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample Name: CP111[2]	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 1 m	Entry:	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)
Moisture content: 20% (dry weight correction)		

Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00575%)

Determinands (Moisture content: 20%, dry weight correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Whole conc. entered as: 5.3 mg/kg or 0.000583%)
benzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
benzo[a]anthracene: (Whole conc. entered as: 0.33 mg/kg or 0.0000275%)
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.35 mg/kg or 0.0000292%)
benzo[b]fluoranthene: (Whole conc. entered as: 0.46 mg/kg or 0.0000383%)
benzo[ghi]perylene: (Whole conc. entered as: <0.05 mg/kg or <0.00000417%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: 0.13 mg/kg or 0.0000108%)
beryllium oxide: (Whole conc. entered as: 0.6 mg/kg or 0.000139%)
boron tribromide/trichloride/trifluoride (combined): (Whole conc. entered as: 0.8 mg/kg or 0.000895%)
cadmium sulfide: (Whole conc. entered as: <0.2 mg/kg or <0.0000214%) **IGNORED Because: "<LOD"**
chromium(VI) oxide: (Whole conc. entered as: <4 mg/kg or <0.000641%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Whole conc. entered as: 42 mg/kg or 0.00394%)
cyanides (with the exception of complex cyanides): (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
ethylbenzene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: 0.55 mg/kg or 0.0000458%)
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00000833%) **IGNORED Because: "<LOD"**
lead chromate: (Whole conc. entered as: 14 mg/kg or 0.00182%)
mercury dichloride: (Whole conc. entered as: <0.3 mg/kg or <0.0000338%) **IGNORED Because: "<LOD"**
molybdenum(VI) oxide: (Whole conc. entered as: 0.8 mg/kg or 0.0001%)
naphthalene: (Whole conc. entered as: 0.16 mg/kg or 0.0000133%)
nickel dihydroxide: (Whole conc. entered as: 14 mg/kg or 0.00184%)
pH: (Whole conc. entered as: 7.9 pH, converted to conc.: 7.9 pH or 7.9 pH)
phenanthrene: (Whole conc. entered as: 0.15 mg/kg or 0.0000125%)

pyrene: (Whole conc. entered as: 0.5 mg/kg or 0.0000417%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Whole conc. entered as: <1 mg/kg or <0.000125%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <1 mg/kg or <0.0000833%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 69 mg/kg or 0.00575%)
zinc chromate: (Whole conc. entered as: 47 mg/kg or 0.0109%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "naphthalene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc chromate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Appendix A: Classifier defined and non CLP determinands

None used in this classification.

Appendix B: Notes

C14: Step 4

from section: WM3: C14 in the document: "WM3 - Waste Classification"

"identify whether any individual ecotoxic substance is given a substance specific concentration limit in Annex VI, Table 3.2 to the CLP,..."

C14: Step 5

from section: WM3: C14 in the document: "WM3 - Waste Classification"

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..."

C14: Step 6, Equation 1

from section: WM3: C14 in the document: "WM3 - Waste Classification"

"use the equations given in Table C14.3 to decide if the waste is hazardous by HP 14"

Appendix C: Version

Classification utilises the following:

- CLP Regulations - Regulation 1272/2008/EC of 16 December 2008
- 1st ATP - Regulation 790/2009/EC of 10 August 2009
- 2nd ATP - Regulation 286/2011/EC of 10 March 2011
- 3rd ATP - Regulation 618/2012/EU of 10 July 2012
- 4th ATP - Regulation 487/2013/EU of 8 May 2013
- Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
- 5th ATP - Regulation 944/2013/EU of 2 October 2013
- 6th ATP - Regulation 605/2014/EU of 5 June 2014
- WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
- Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014
- WM3 - Waste Classification - May 2015
- 7th ATP - Regulation 2015/1221/EU of 24 July 2015
- POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004
- 1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010
- 2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

HazWasteOnline Engine: WM3 1st Edition, May 2015

HazWasteOnline Engine Version: 2015.223.2932.5916 (11 Aug 2015)

HazWasteOnline Database: 2015.222.2931.5915 (10 Aug 2015)