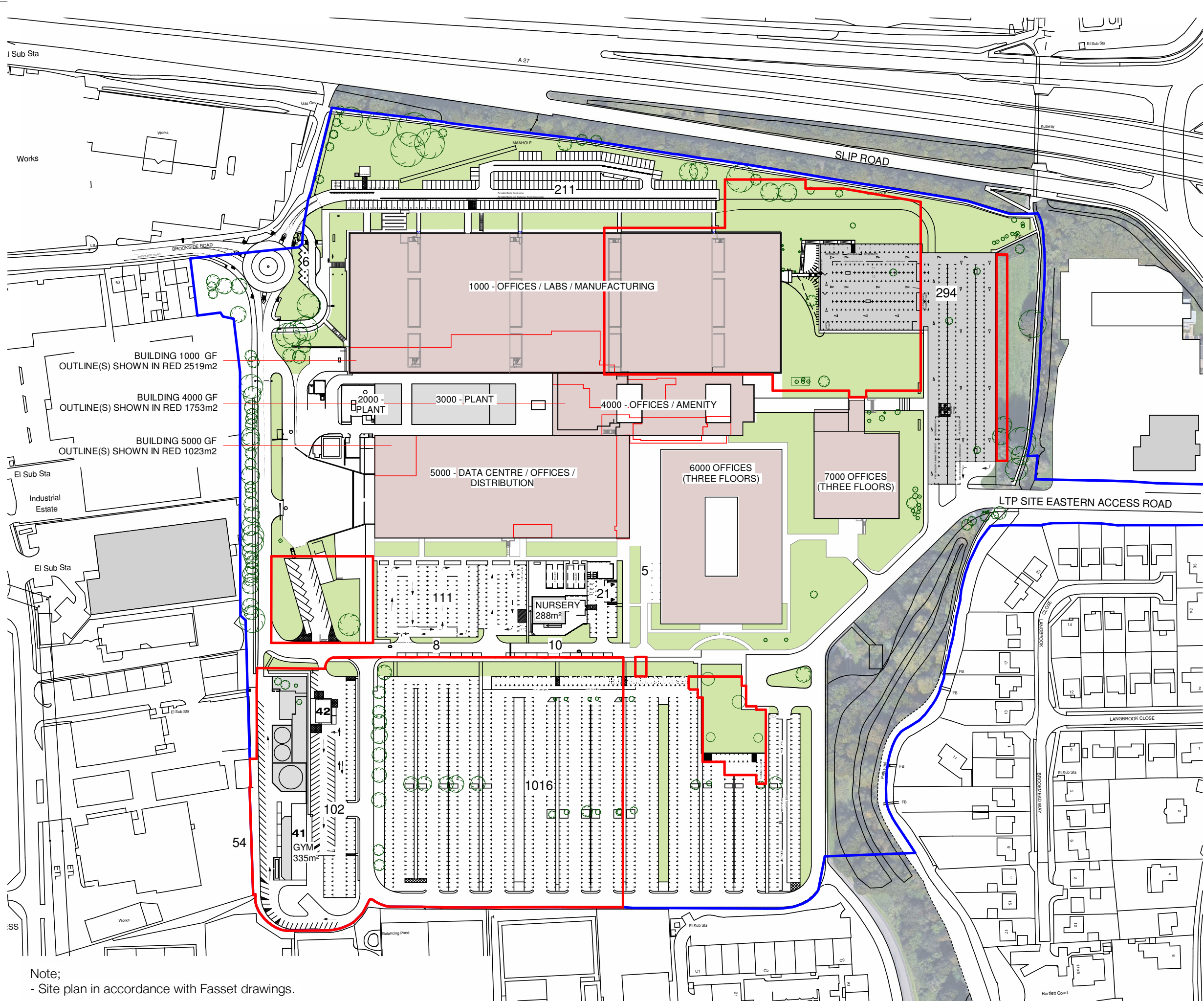
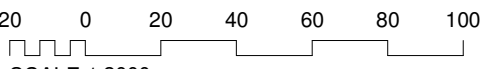




Note;
- Site plan in accordance with Fasset drawings.

Notes
This drawing may be scaled for the purposes of Planning Applications, Land Registry and for Legal plans where the scale bar is used, and where it verifies that the drawing is an original or an accurate copy. It may not be scaled for construction purposes.
Always refer to figured dimensions. All dimensions are to be checked on site. Discrepancies and/or ambiguities between this drawing and information given elsewhere must be reported immediately to this office for clarification before proceeding. All drawings are to be read in conjunction with the specification and all works to be carried out in accordance with latest British Standards / Codes of Practice.

F	27.06.19	CJ	Redline updated to coordinate with topo
E	14.05.19	CJ	Application Area Updated

Rev	Date	Init	Notes	Chkd
				
				
SCALE 1:2000				
Client				

Drawing Originator

AWW inspired environments

London - 106 Weston Street London SE1 3QB 020 7160 6000
Bristol - Rivergate House, Bristol, BS1 6LS 0117 923 2535
Plymouth - East Quay House, Plymouth, PL4 0HX 01752 261 282

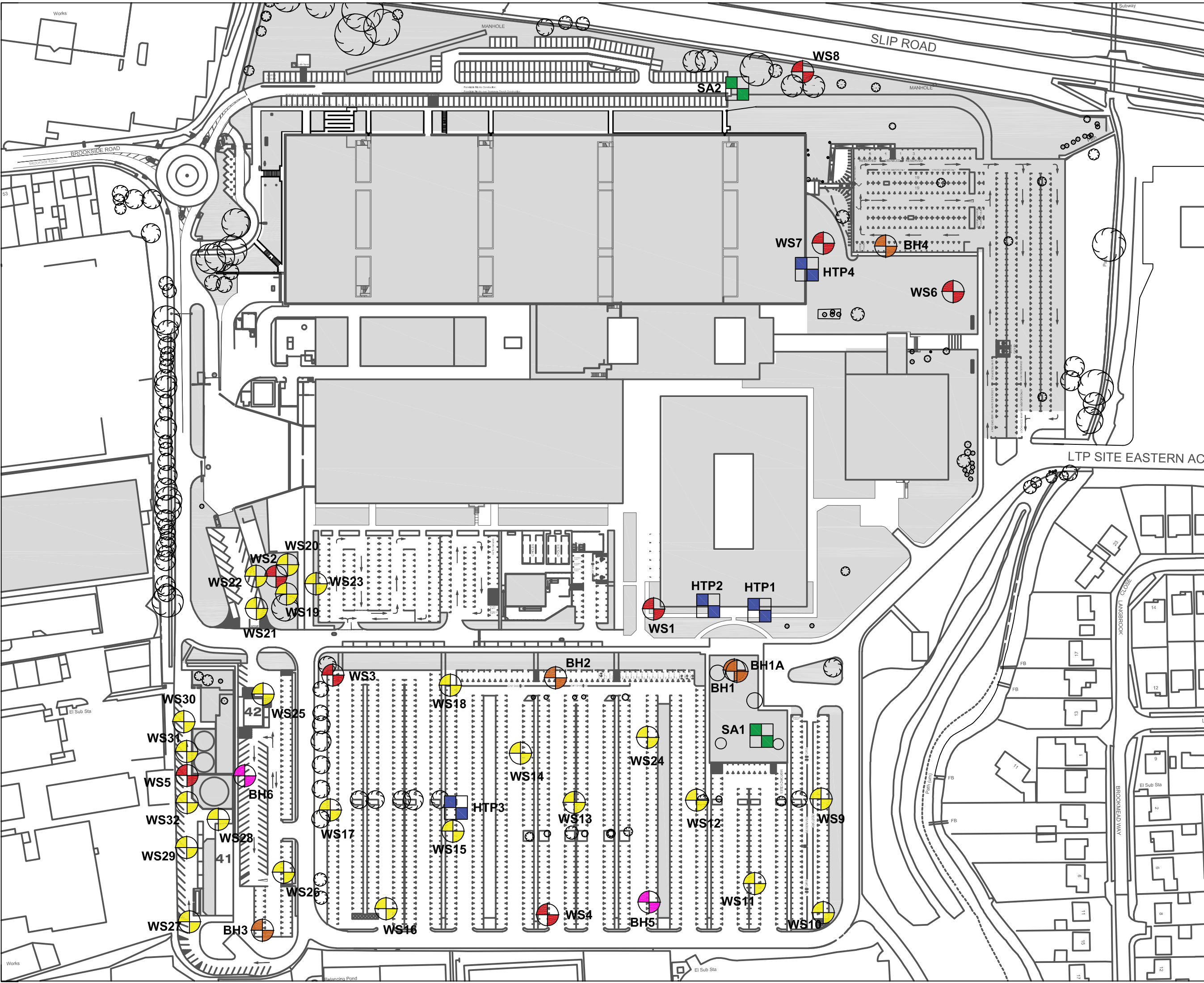
RIBA Chartered Practice www.aww-uk.com

Project Title
Langstone Technology Park

Drawing Title
Existing Site Plan

Scale	Sheet	Drawn	Checked	Date
1 : 2000	A3	CJ	IJ	10.12.19

Status PLANNING	Project No. 4046
Drawing Reference	Drawing No. 0105
	Revision F



Key

- Cable Percussive Borehole (Aug 2019)
- Window Sample Borehole (Aug 2019)
- Hand Excavated Trial Pit (Aug 2019)
- Soakaway Test Trial Pit (Aug 2019)
- Window Sample Borehole (July 2020)
- Cable Percussive Borehole (July 2020)

A	Aug 2020	Exploratory Hole Location Plan	DH	SHP	NR
Rev	Date	Description	By	Check	App.

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Client
AG Langstone B.V.

Project
Langstone Technology Park Havant

Office
Altrincham

Discipline
Geo-Environmental

Title
Exploratory Hole Location Plan

Scale @ A3
NTS

Status

Originator	Job Number	Discipline	Building/Zone
DH	10/1425	GEO	-
Type	Level	Drawing No.	Revision
GA	00	02	B



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APPENDIX II
EXPLORATORY HOLE LOGS

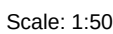
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		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.844654		E Coord: -0.988681	
Date: 27/07/2020-29/07/2020		Method: Cable Percussion		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
1.20 - 1.65	SPT	N=7			0.15	MADE GROUND: Macadam.		
					0.60	MADE GROUND: Brownish grey gravelly sand. Gravel is sub-angular fine to coarse of macadam, brick, flint and sandstone.		
2.00 - 2.45	SPT	N=12			1.00	Loose brown slightly sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of chalk and flint. With a low cobble content of flint.		
3.00 - 3.45	SPT	N=14			2.00			
4.00 - 4.45	SPT	N=8			3.00			
5.00 - 5.45	SPT	N=12			4.00	Grey gravelly clayey SILT. Gravel is sub-rounded fine to coarse of chalk.		
6.00 - 6.45	SPT	N=8			5.00	Firm brown gravelly sandy CLAY. Gravel is sub-angular to sub-rounded fine to coarse of flint and chalk.		
					5.30			
7.50 - 7.95	SPT	N=7			5.80	CHALK recovered as greyish white mottled yellowish cream gravelly SILT. Gravel is sub-angular fine to medium of chalk.		
					6.00			
					7.00			
					8.00			
						Borehole Continues		

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Borehole installed with a ground gas/ groundwater monitoring well. 	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>27/07/2020</td> <td>2</td> <td>2.00</td> <td></td> <td>1.50</td> <td></td> </tr> <tr> <td>29/07/2020</td> <td>5.8</td> <td>3.50</td> <td></td> <td>4.50</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	27/07/2020	2	2.00		1.50		29/07/2020	5.8	3.50		4.50							
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		GL (mAOD):		N Coord: 50.844654		E Coord: -0.988681	
Date: 27/07/2020-29/07/2020		Method: Cable Percussion		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
9.00 - 9.45	SPT	N=14			9.00	CHALK recovered as greyish white mottled yellowish cream gravelly SILT. Gravel is sub-angular fine to medium of chalk.		
10.50 - 10.95	SPT	N=10			10.00			
					11.00			
12.00 - 12.45	SPT	N=12			12.00			
					13.00			
13.50 - 13.95	SPT	N=11			14.00			
					15.00			
15.00 - 15.45	SPT	N=11			16.00			
						Borehole Continues		

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		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.844654		E Coord: -0.988681	
Date: 27/07/2020-29/07/2020		Method: Cable Percussion		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
16.50 - 16.95	SPT	N=19			16.50	CHALK recovered as greyish white mottled yellowish cream gravelly SILT. Gravel is sub-angular fine to medium of chalk. CHALK recovered as whitish cream silty sub-angular fine to medium GRAVEL of chalk.		
					17.00			
18.00 - 18.43	SPT	pp 50/280mm			18.00			
					19.00			
					19.87			
19.50 - 19.87	SPT	pp 50/215mm			20.00	End Of Borehole At 19.87 m		
					21.00			
					22.00			
					23.00			
					24.00			
								

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		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845156		E Coord: -0.991243	
Date: 29/07/2020-30/07/2020		Method: Cable Percussion		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
					0.15	MADE GROUND: Macadam.		
					0.60	MADE GROUND: Brownish grey gravelly sand. Gravel is sub-angular fine to coarse of macadam, brick, flint and sandstone.		
					1.00	Brown slightly sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of chalk and flint. With a low cobble content of flint.		
					2.00			
					3.00			
					4.00			
					5.00	Grey gravelly clayey SILT. Gravel is sub-rounded fine to coarse of chalk.		
					6.00	CHALK recovered as yellowish cream gravelly SILT. Gravel is sub-angular fine to medium of chalk.		
					7.00			
					8.00			
						Borehole Continues		

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Borehole installed with a ground gas/ groundwater monitoring well. 	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>27/07/2020</td> <td>2</td> <td>2.00</td> <td></td> <td>1.50</td> <td></td> </tr> <tr> <td>29/07/2020</td> <td>6</td> <td>5.50</td> <td></td> <td>4.50</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Daily Log Of Depths <table border="1"> <thead> <tr> <th colspan="3">Chiselling</th> <th colspan="3"></th> </tr> <tr> <th>Date</th> <th>Casing</th> <th>Water</th> <th>From</th> <th>To</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	27/07/2020	2	2.00		1.50		29/07/2020	6	5.50		4.50								Chiselling						Date	Casing	Water	From	To	Hours												
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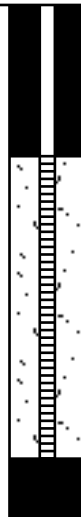
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		Project Number: 10/1425		Client: AG Langstone B.V.			
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Date: 29/07/2020-30/07/2020		Method: Cable Percussion		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
					9.00	CHALK recovered as yellowish cream gravelly SILT. Gravel is sub-angular fine to medium of chalk.		
					10.00	End Of Borehole At 10.00 m		
					11.00			
					12.00			
					13.00			
					14.00			
					15.00			
					16.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level 	REMARKS Borehole installed with a ground gas/ groundwater monitoring well. Scale: 1:50	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="6">Water Strikes</th> </tr> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> <tr> <td>27/07/2020</td> <td>2</td> <td>2.00</td> <td></td> <td>1.50</td> <td></td> </tr> <tr> <td>29/07/2020</td> <td>6</td> <td>5.50</td> <td></td> <td>4.50</td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">Daily Log Of Depths</th> <th colspan="3">Chiselling</th> </tr> <tr> <th>Date</th> <th>Casing</th> <th>Water</th> <th>From</th> <th>To</th> <th>Hours</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	Water Strikes						Date	Strike	Level	Minutes	Casing	Sealed	27/07/2020	2	2.00		1.50		29/07/2020	6	5.50		4.50								Daily Log Of Depths			Chiselling			Date	Casing	Water	From	To	Hours												
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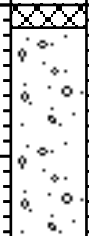
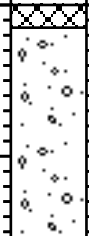
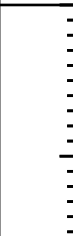
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		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845208		E Coord: -0.98754	
Date: 27/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.35	ES	N=22			0.20 0.30	MADE GROUND: Macadam.		
0.70	ES				0.60 0.90 1.00	MADE GROUND: Black mottled grey sub-angular medium to coarse gravel of macadam, sandstone and limestone.		
1.20 - 1.65	SPT				1.60 1.80 2.00	MADE GROUND: Reddish brown gravelly slightly clayey fine to coarse sand. Gravel is sub-angular fine to coarse of brick, clinker and macadam.		
1.70	ES	N=30			1.60 1.80 2.00	Dark brown mottled cream slightly sandy slightly clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint.	▼	
2.00 - 2.45	SPT				2.00 2.30 2.70	Firm brown slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse of flint.		
2.30	ES				2.70 3.00 3.39	Medium dense dark brown mottled cream slightly sandy slightly clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint.		
2.70	ES	pp 50/240mm			3.00 3.39 4.00	Firm brown slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse of flint.	▽	
3.00 - 3.39	SPT				4.00 5.00 6.00	medium dense dark brown mottled cream slightly sandy slightly clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint.		
					6.00 7.00 8.00	End Of Borehole At 3.39 m		

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▼ - Groundwater Strike ▽ - Groundwater Level		REMARKS Borehole installed with a ground gas/ groundwater monitoring well. 	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>27/07/2020</td> <td>2.7</td> <td>2.00</td> <td>30</td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	27/07/2020	2.7	2.00	30																										
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Scale: 1:50

		Project Title: Langstone Technology Park, Havant				WS10	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.844605		E Coord: -0.987763	
Date: 27/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.20	ES	pp 50/230mm			0.15	MADE GROUND: Macadam		
0.90	ES				1.00	Very dense brown slightly sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint with a low cobble content of sub-angular to sub-rounded flint.		
1.20 - 1.58	SPT				1.58			
						End Of Borehole At 1.58 m		
						2.00		
						3.00		
						4.00		
						5.00		
						6.00		
						7.00		
						8.00		

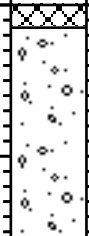
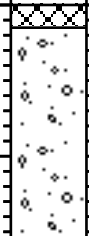
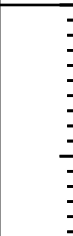
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 		REMARKS No Groundwater Encountered Borehole backfilled with arisings. Scale: 1:50		Water Strikes																									
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Date	Casing	Water	From	To	Hours																								

		Project Title: Langstone Technology Park, Havant				WS11	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.844837		E Coord: -0.988023	
Date: 27/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.30	ES	pp 50/160mm			0.15	MADE GROUND: Macadam		
					0.40	MADE GROUND: Reddish brown gravelly fine to coarse sand. Gravel is sub-angular to sub-rounded fine to coarse of sandstone and brick.		
0.90	ES				1.00	Very dense brown slightly sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint with a low cobble content of sub-angular to sub-rounded flint.		
1.20 - 1.51	SPT				1.51		End Of Borehole At 1.51 m	
					2.00			
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

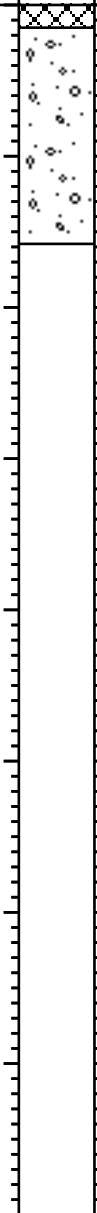
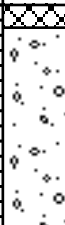
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 		REMARKS No Groundwater Encountered Borehole backfilled with arisings.  Scale: 1:50		Water Strikes																									
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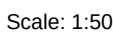
		Project Title: Langstone Technology Park, Havant				WS12	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845083		E Coord: -0.988321	
Date: 27/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.30	ES	pp 50/235mm			0.15	MADE GROUND: Macadam		
0.90	ES				1.00	Very dense brown slightly sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint with a low cobble content of sub-angular to sub-rounded flint.		
1.20 - 1.59	SPT				1.59			
						End Of Borehole At 1.59 m		
						2.00		
						3.00		
						4.00		
						5.00		
						6.00		
						7.00		
						8.00		

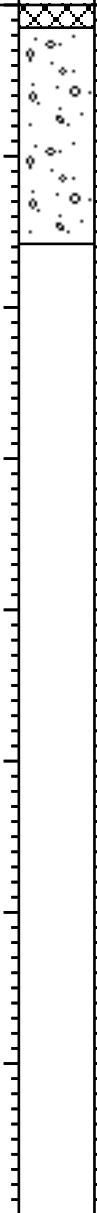
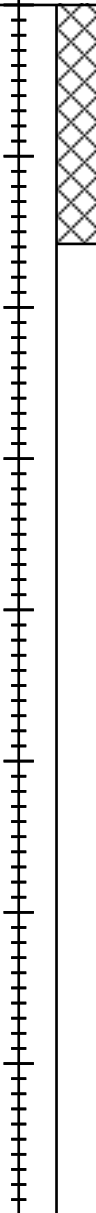
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS No Groundwater Encountered Borehole backfilled with arisings. 		Water Strikes																									
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		Project Title: Langstone Technology Park, Havant				WS13	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845132		E Coord: -0.989115	
Date: 27/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.20	ES	pp 50/230mm			0.15	MADE GROUND: Macadam		
0.70	ES				Very dense brown slightly sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint with a low cobble content of sub-angular to sub-rounded flint.			
1.20 - 1.58	SPT				End Of Borehole At 1.58 m			
					2.00			
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 		REMARKS No Groundwater Encountered Borehole backfilled with arisings. 		Water Strikes																									
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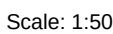
		Project Title: Langstone Technology Park, Havant				WS15	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845107		E Coord: -0.989925	
Date: 28/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.30	ES	pp 50/230mm			0.15	MADE GROUND: Macadam		
0.80	ES				Very dense brown slightly sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint with a low cobble content of sub-angular to sub-rounded flint.			
1.20 - 1.58	SPT				End Of Borehole At 1.58 m			
					2.00			
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 		REMARKS No Groundwater Encountered Borehole backfilled with arisings. Scale: 1:50		Water Strikes																									
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Date	Casing	Water	From	To	Hours																								

		Project Title: Langstone Technology Park, Havant				WS16	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.844746		E Coord: -0.990435	
Date: 28/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.40	ES	N=45 pp 50/230mm			0.15	MADE GROUND: Macadam MADE GROUND: Brown very gravelly fine to coarse sand. Gravel is sub-angular to sub-rounded fine to coarse of sandstone, limestone and flint. Dense becoming very dense brown slightly sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint with a low cobble content of sub-angular to sub-rounded flint. End Of Borehole At 2.08 m		
0.95	ES				0.60			
1.20 - 1.65	SPT				1.00			
1.70 - 2.08	SPT				2.00 2.08			
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 		REMARKS No Groundwater Encountered Borehole backfilled with arisings. 		Water Strikes					
				Date	Strike	Level	Minutes	Casing	Sealed
Daily Log Of Depths		Chiselling							
		Date	Casing	Water	From	To	Hours		

		Project Title: Langstone Technology Park, Havant				WS17	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845164		E Coord: -0.990687	
Date: 27/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES	pp 50/230mm			0.15	MADE GROUND: Macadam		
1.10	ES SPT				0.60	MADE GROUND: Brown very gravelly fine to coarse sand. Gravel is sub-angular to sub-rounded fine to coarse of sandstone, limestone and flint.		
1.20 - 1.58					1.00	Very dense brown slightly sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint with a low cobble content of sub-angular to sub-rounded flint.		
					1.58		End Of Borehole At 1.58 m	
					2.00			
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

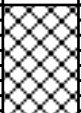
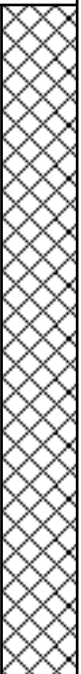
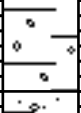
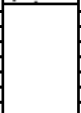
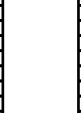
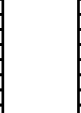
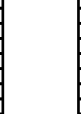
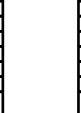
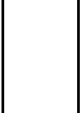
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Date	Casing	Water	From	To	Hours																								

		Project Title: Langstone Technology Park, Havant				WS18	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845659		E Coord: -0.989957	
Date: 28/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.60	ES	N=11			0.15	MADE GROUND: Macadam		
1.10 1.20 - 1.65	ES SPT				0.70 1.00	Orangish brown sandy slightly clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint.		
1.70 2.00 - 2.45	ES SPT				1.30 2.00	Loose brown sandy slightly clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint.		
2.30	ES			2.20	Firm become very soft brown gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse of flint.			
3.00 - 3.45	SPT	N=6		3.00	Very loose cream sandy silty sub-angular to sub-rounded fine to coarse GRAVEL of flint and chalk (very few returns).			
				3.45	End Of Borehole At 3.45 m			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

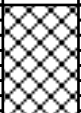
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Borehole terminated due to collapse from 2.20m bgl. Borehole backfilled with arisings.	Water Strikes																										
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28/07/2020	2.2	2.00																											
		Scale: 1:50	Daily Log Of Depths																										
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Date	Casing	Water	From	To	Hours																								

		Project Title: Langstone Technology Park, Havant				WS19	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.846027		E Coord: -0.990892	
Date: 28/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.40	ES	N=15			0.80	MADE GROUND: Grass over brown sandy slightly clayey sub-angular to sub-rounded fine to coarse gravel of flint with fragments of brick. Common roots and rootlets.	 	
0.90	ES				1.00	Firm dark brown mottled black sandy silty CLAY with olfactory evidence of hydrocarbons.		
1.20 - 1.65	SPT				2.00			
1.70	ES	N=20			2.10	Firm brown very gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse of flint.		
2.00 - 2.45	SPT				2.80			
2.30	ES		N=13			3.00	Loose yellowish brown slightly sandy slightly clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint (Few returns).	
2.80	ES				4.00			
2.90	ES	N=7				4.45	End Of Borehole At 4.45 m	
3.00 - 3.45	SPT				5.00			
4.00 - 4.45	SPT				6.00			
					7.00			
					8.00			

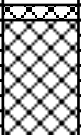
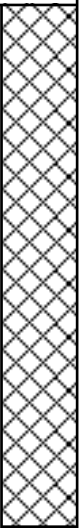
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Borehole terminated due to collapse from 2.80m bgl. Borehole backfilled with arisings.	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>29/07/2020</td> <td>2.8</td> <td>2.50</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	29/07/2020	2.8	2.50															
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Date	Casing	Water	From	To	Hours																						

		Project Title: Langstone Technology Park, Havant				WS20	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.84617		E Coord: -0.990908	
Date: 29/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES	N=9			0.80	MADE GROUND: Grass over brown sandy slightly clayey sub-angular to sub-rounded fine to coarse gravel of flint with fragments of brick.		
0.90	ES				1.00	Firm grey gravelly silty CLAY. Gravel is sub-angular to sub-rounded fine to medium of flint and chalk. Olfactory evidence of hydrocarbon contamination		
1.20 - 1.65 1.30	SPT ES				1.70			
1.90 2.00 - 2.45	ES SPT	N=1			2.00	Firm brown gravelly silty CLAY. Gravel is sub-angular to sub-rounded fine to medium of flint and chalk.		
2.40	ES				3.00			
3.00 - 3.45	SPT	N=8			4.00			
4.00 - 4.45	SPT	N=11			4.45			
					5.00	End Of Borehole At 4.45 m		
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Borehole terminated due to collapse from 2.40m bgl. Borehole installed with a ground gas/ groundwater monitoring well.	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>29/07/2020</td> <td>2.4</td> <td>2.10</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	29/07/2020	2.4	2.10															
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Date	Casing	Water	From	To	Hours																						

		Project Title: Langstone Technology Park, Havant				WS21	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845989		E Coord: -0.991069	
Date: 29/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.30	ES	N=12			0.10	MADE GROUND: Macadam		
0.70	ES					MADE GROUND: Brown slightly sandy clayey sub-angular to sub-rounded fine to coarse gravel of flint.		
1.20 - 1.65	SPT							
1.30	ES				MADE GROUND: Dark brown mottled black slightly sandy gravelly clay. Gravel is sub-angular to sub-rounded fine to coarse of flint with fragments of brick. Olfactory evidence of hydrocarbon contamination. .			
1.70	ES	N=24			1.40			
2.00 - 2.45	SPT					Firm yellowish brown sandy gravelly SILT. Gravel is sub-angular to sub-rounded fine to coarse of flint.		
2.70	ES							
3.00 - 3.45	SPT	N=23			3.00	Stiff cream sandy gravelly SILT. Gravel is sub-angular to sub-rounded fine to coarse of flint and chalk.		
					3.45	2.20 - 2.40 Slight olfactory evidence of hydrocarbons.		
						End Of Borehole At 3.45 m		
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Borehole terminated due to collapse from 2.20m bgl. Borehole backfilled with arisings.	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>05/08/2020</td> <td>2.2</td> <td>2.20</td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	05/08/2020	2.2	2.20															
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		Project Title: Langstone Technology Park, Havant				WS22	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.846169		E Coord: -0.991101	
Date: 27/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.30	ES	pp 50/230mm			0.60	MADE GROUND: Grass over brown very gravelly fine to coarse sand. Gravel is sub-angular to sub-rounded fine to coarse of sandstone, limestone and flint with brick fragments.		
0.90	ES				1.00		Very dense brown slightly sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint with a low cobble content of sub-angular to sub-rounded flint. End Of Borehole At 1.58 m	
1.20 - 1.58	SPT					1.58		
					2.00			
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 		REMARKS No Groundwater Encountered Borehole backfilled with arisings.  Scale: 1:50		Water Strikes																									
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		Project Title: Langstone Technology Park, Havant				WS23	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.846037		E Coord: -0.990712	
Date: 29/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES	pp 50/230mm			0.60	MADE GROUND: Grass over brown very gravelly fine to coarse sand. Gravel is sub-angular to sub-rounded fine to coarse of sandstone, limestone and flint with brick fragments.		
1.00	ES				1.00		Very dense brown slightly sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint with a low cobble content of sub-angular to sub-rounded flint.	
1.20 - 1.58	SPT				1.58	End Of Borehole At 1.58 m		
					2.00			
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS No Groundwater Encountered Borehole backfilled with arisings.	Water Strikes																										
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Date	Casing	Water	From	To	Hours																								

		Project Title: Langstone Technology Park, Havant				WS24	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.84549		E Coord: -0.988609	
Date: 30/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.40	ES	N=20			0.15	MADE GROUND: Macadam. Medium dense brown sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint.		
0.90	ES				1.00			
1.20 - 1.65 1.30	SPT ES				1.70			
1.80	ES	N=11			2.00	Firm cream slightly sandy very gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium of flint and chalk.		
2.00 - 2.45	SPT				2.60	Firm yellowish brown slightly gravelly silty CLAY. Gravel is sub-angular to sub-rounded fine to coarse of flint and chalk.		
2.30	ES				3.00	Loose yellowish brown slightly sandy silty clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint.		
3.00 - 3.45	SPT	N=11			3.45	End Of Borehole At 3.45 m		
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

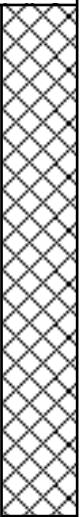
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		Project Title: Langstone Technology Park, Havant				WS25	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845607		E Coord: -0.99105	
Date: 30/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.40	ES	N=41 pp 50/230mm			0.15	MADE GROUND: Macadam.		
				0.41	MADE GROUND: Brown sandy sub-angular to sub-rounded fine to coarse gravel of flint, sandstone and macadam.			
0.90	ES			1.00	Firm brown slightly sandy silty CLAY.			
1.20 - 1.65	SPT			1.50				
1.30	ES			2.00				
1.70	ES				2.08	Firm brown slightly sandy gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse of flint.		
1.70 - 2.08	SPT					End Of Borehole At 2.08 m		
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS No Groundwater Encountered Borehole backfilled with arisings. 	Water Strikes																										
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		Project Title: Langstone Technology Park, Havant				WS26	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.844913		E Coord: -0.990999	
Date: 30/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.20	ES	N=21			0.10 0.30	MADE GROUND: Macadam.		
0.70	ES					MADE GROUND: Yellowish brown sandy sub-angular fine to coarse gravel of flint, sandstone and macadam.		
1.20 - 1.65 1.30 1.50	SPT ES ES				1.00 1.40	Firm brown sandy silty CLAY.		
2.00 - 2.45 2.30	SPT ES		N=16		1.90 2.00	Firm brown gravelly sandy CLAY. Gravel is sub-angular to sub-rounded fine to coarse of flint.		
3.00 - 3.38	SPT	pp 50/230mm			3.00 3.38	Medium dense becoming very dense cream sandy silty sub-angular to sub-rounded fine to coarse GRAVEL of flint, chalk and shell fragments.		
						End Of Borehole At 3.38 m		
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Borehole backfilled with arisings. 	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>06/08/2020</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">Daily Log Of Depths</th> <th colspan="3">Chiselling</th> </tr> <tr> <th>Date</th> <th>Casing</th> <th>Water</th> <th>From</th> <th>To</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	06/08/2020	2																	Daily Log Of Depths			Chiselling			Date	Casing	Water	From	To	Hours												
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Date	Casing	Water	From	To	Hours																																														

Scale: 1:50

		Project Title: Langstone Technology Park, Havant				WS27	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.84471		E Coord: -0.991543	
Date: 30/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe	
0.30	ES	N=17 pp 50/235mm			0.20	MADE GROUND: Grass over brown slightly sandy clayey sub-angular to sub-rounded fine to coarse gravel of flint with brick fragments. Very dense brown slightly sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint.			
0.80	ES				1.00				
1.20 - 1.65	SPT					2.00	End Of Borehole At 2.09 m		
1.70 - 2.09	SPT					2.09			
					3.00				
					4.00				
					5.00				
					6.00				
					7.00				
					8.00				

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa - Groundwater Strike - Groundwater Level 	REMARKS No Groundwater Encountered Borehole backfilled with arisings. Scale: 1:50	Water Strikes <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> Daily Log Of Depths <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Date</th> <th>Casing</th> <th>Water</th> <th>From</th> <th>To</th> <th>Hours</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	Date	Strike	Level	Minutes	Casing	Sealed																			Date	Casing	Water	From	To	Hours												
Date	Strike	Level	Minutes	Casing	Sealed																																							
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		Project Title: Langstone Technology Park, Havant				WS28	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845172		E Coord: -0.991498	
Date: 30/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.30	ES	N=11			0.20	MADE GROUND: Macadam.		
0.70	ES					Brown slightly sandy slightly clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint.		
1.00	ES				0.90 1.00	Firm brown slightly sandy slightly silty gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse of flint.		
1.20 - 1.65	SPT					Very dense cream sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint and chalk.		
1.90	ES	N=46			2.00 2.10	Very dense cream sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint and chalk.		
2.00 - 2.45	SPT							
2.30	ES	pp 50/160mm			3.00 3.11	End Of Borehole At 3.11 m		
2.80 - 3.11	SPT							
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Borehole backfilled with arisings. 	Water Strikes																										
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Date	Casing	Water	From	To	Hours																								

		Project Title: Langstone Technology Park, Havant				WS29	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845094		E Coord: -0.991613	
Date: 30/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.40	ES	N=21			0.20	MADE GROUND: Macadam.		
0.80	ES			0.60	Brown slightly sandy slightly clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint.			
1.20 - 1.65	SPT			1.00	Firm grey mottled black slightly sandy gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse of flint.			
1.30	ES			1.20	0.60 - 0.90 Strong olfactory evidence of hydrocarbon contamination.			
2.00 - 2.38	SPT		pp 50/230mm	2.00	Very dense cream sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint and chalk.			
2.40	ES				2.90	End Of Borehole At 2.90 m		
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

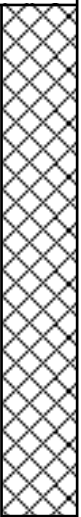
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Borehole terminated due to SPT refusal, borehole cleared out to 2.9m bgl to facilitate instalation with a ground gas/ groundwater monitoring well.	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>30/07/2020</td> <td>2</td> <td>2.00</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	30/07/2020	2	2.00															
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Date	Casing	Water	From	To	Hours																						

		Project Title: Langstone Technology Park, Havant				WS30	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845528		E Coord: -0.991605	
Date: 30/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.30	ES	pp 50/165mm			0.20 0.29 0.50	MADE GROUND: Macadam.		
						MADE GROUND: Concrete.		
1.00	ES				1.00	MADE GROUND: Brown gravelly fine to coarse sand. Gravel is sub-angular to sub-rounded fine to coarse gravel of sandstone, macadam with brick fragments.		
1.20 - 1.51	SPT				1.51	Very dense brown slightly sandy slightly clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint.		
					2.00	End Of Borehole At 1.51 m		
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS No Groundwater Encountered Borehole backfilled with arisings.	Water Strikes																										
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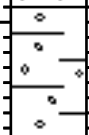
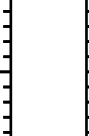
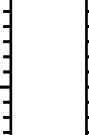
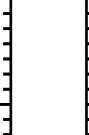
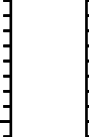
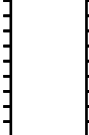
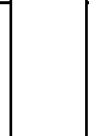
		Project Title: Langstone Technology Park, Havant				WS31	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845406		E Coord: -0.991594	
Date: 31/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.30	ES	N=33			0.20	MADE GROUND: Macadam		
					0.40	MADE GROUND: Brown gravelly fine to coarse sand. Gravel is sub-angular fine to coarse of sandstone, macadam and brick.		
0.90	ES				1.00	Brown clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint. With a low cobble content of sub-angular flint.		
1.20 - 1.65	SPT				1.10			
1.50	ES			1.40	Firm dark greyish brown gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse of flint.			
2.00 - 2.45	SPT	N=22		2.00	Firm brown slightly gravelly clay. Gravel is sub-angular to sub-rounded fine to coarse of flint.			
2.50	ES	pp 50/230mm		2.40	Grey sandy gravelly SILT. Gravel is sub-angular fine to coarse of flint. Strong visual and olfactory evidence of hydrocarbon contamination.			
2.70	ES					2.60		
3.00 - 3.38	SPT				3.00	Very dense white sandy sub-angular to sub-rounded fine to coarse GRAVEL of chalk and flint.		
					3.38	End Of Borehole At 3.38 m		
				4.00				
				5.00				
				6.00				
				7.00				
				8.00				

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Borehole backfilled with arisings. 	Water Strikes					
			Date	Strike	Level	Minutes	Casing	Sealed
			31/07/2020	2.4	2.40			
			Daily Log Of Depths			Chiselling		
			Date	Casing	Water	From	To	Hours

Scale: 1:50

		Project Title: Langstone Technology Park, Havant				WS32	
		Project Number: 10/1425		Client: AG Langstone B.V.			
		GL (mAOD):		N Coord: 50.845334		E Coord: -0.991605	
Date: 31/07/2020		Method: Window Sampler		Driller: WB Drilling		Logged By: DH	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.70	ES	N=20			0.20	MADE GROUND: Macadam	 	
1.20 - 1.65 1.40	SPT ES				0.90 1.00	Brown clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint. With a low cobble content of sub-angular flint.		
2.00 - 2.45	SPT	N=11			2.00	Firm brown sandy CLAY.		
2.40	ES	pp 50/235mm			2.30 2.50	Grey sandy gravelly SILT. Gravel is sub-angular fine to coarse of flint. Strong visual and olfactory evidence of hydrocarbon contamination.		
2.60	ES				3.00 3.18			
2.80 - 3.18	SPT				4.00	End Of Borehole At 3.18 m		
						5.00		
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Borehole backfilled with arisings. 	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>31/07/2020</td> <td>2.3</td> <td>2.50</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	31/07/2020	2.3	2.50																											
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Scale: 1:50

APPENDIX III
CHEMICAL LABORATORY
TEST RESULTS

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/06587
Issue Number: 1

Date: 26 August, 2020

Client: Clancy Consulting
Dunham Court
2 Dunham Road
Altrincham
Cheshire
UK
WA14 4NX

Project Manager: Daniel Hoyle
Project Name: Langstone Technology Park
Project Ref: 10/1425
Order No: 28793
Date Samples Received: 06/08/20
Date Instructions Received: 10/08/20
Date Analysis Completed: 26/08/20

Prepared by:



Sophie France
Client Service Manager

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/1	20/06587/4	20/06587/6	20/06587/9	20/06587/18	20/06587/20	20/06587/25	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS9	WS9	WS10	WS11	WS14	WS14	WS16			
Depth to Top	0.35	2.30	0.90	0.90	0.90	2.40	0.95			
Depth To Bottom										
Date Sampled	27-Jul-20	27-Jul-20	27-Jul-20	27-Jul-20	28-Jul-20	28-Jul-20	28-Jul-20			
Sample Type	Soil	Solid	Solid	Solid	Soil	Soil	Soil			
Sample Matrix Code	5A	7	7	7	5AB	5A	5A			
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1	43.9	28.9	16.9	% w/w	0.1	A-T-044
pH _D ^{M#}	7.52	-	-	-	-	7.88	-	pH	0.01	A-T-031s
Arsenic _D ^{M#}	<1	-	-	-	-	<1	-	mg/kg	1	A-T-024s
Beryllium _D [#]	1.0	-	-	-	-	<0.5	-	mg/kg	0.5	A-T-024s
Boron (water soluble) _D	<1.0	-	-	-	-	<1.0	-	mg/kg	1	A-T-027s
Cadmium _D ^{M#}	0.8	-	-	-	-	<0.5	-	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	17	-	-	-	-	6	-	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	-	-	-	-	<1	-	mg/kg	1	A-T-040s
Lead _D ^{M#}	14	-	-	-	-	6	-	mg/kg	1	A-T-024s
Mercury _D	<0.17	-	-	-	-	2.15	-	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	18	-	-	-	-	11	-	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	-	-	-	-	1	-	mg/kg	1	A-T-024s
Vanadium _D ^{M#}	41	-	-	-	-	21	-	mg/kg	1	A-T-024s
Zinc _D ^{M#}	63	-	-	-	-	20	-	mg/kg	5	A-T-024s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/1	20/06587/4	20/06587/6	20/06587/9	20/06587/18	20/06587/20	20/06587/25	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS9	WS9	WS10	WS11	WS14	WS14	WS16			
Depth to Top	0.35	2.30	0.90	0.90	0.90	2.40	0.95			
Depth To Bottom										
Date Sampled	27-Jul-20	27-Jul-20	27-Jul-20	27-Jul-20	28-Jul-20	28-Jul-20	28-Jul-20			
Sample Type	Soil	Solid	Solid	Solid	Soil	Soil	Soil			
Sample Matrix Code	5A	7	7	7	5AB	5A	5A			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	0.10	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	0.10	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	0.15	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	0.12	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	0.14	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	0.08	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	0.05	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	0.11	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	<0.08	0.91	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	0.01	A-T-019s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/1	20/06587/4	20/06587/6	20/06587/9	20/06587/18	20/06587/20	20/06587/25	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS9	WS9	WS10	WS11	WS14	WS14	WS16			
Depth to Top	0.35	2.30	0.90	0.90	0.90	2.40	0.95			
Depth To Bottom										
Date Sampled	27-Jul-20	27-Jul-20	27-Jul-20	27-Jul-20	28-Jul-20	28-Jul-20	28-Jul-20			
Sample Type	Soil	Solid	Solid	Solid	Soil	Soil	Soil			
Sample Matrix Code	5A	7	7	7	5AB	5A	5A			
SVOC										
Hexachlorobenzene _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Diethyl phthalate _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Dimethyl phthalate _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Dibenzofuran _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Carbazole _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Butylbenzyl phthalate _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate _A	-	<500	<500	<500	-	<500	<500	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
4-Nitrophenol _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
3+4-Methylphenol _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2-Nitrophenol _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2-Methylphenol _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2-Chlorophenol _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2,6-Dinitrotoluene _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2,4-Dinitrotoluene _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2,4-Dimethylphenol _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2,4-Dichlorophenol _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2-Chloronaphthalene _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2-Methylnaphthalene _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Phenol _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC) _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
n-Diethylphthalate _A	-	<500	<500	<500	-	<500	<500	µg/kg	500	A-T-052s
n-Dibutylphthalate _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Nitrobenzene _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Isophorone _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Hexachloroethane _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/1	20/06587/4	20/06587/6	20/06587/9	20/06587/18	20/06587/20	20/06587/25	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS9	WS9	WS10	WS11	WS14	WS14	WS16			
Depth to Top	0.35	2.30	0.90	0.90	0.90	2.40	0.95			
Depth To Bottom										
Date Sampled	27-Jul-20	27-Jul-20	27-Jul-20	27-Jul-20	28-Jul-20	28-Jul-20	28-Jul-20			
Sample Type	Soil	Solid	Solid	Solid	Soil	Soil	Soil			
Sample Matrix Code	5A	7	7	7	5AB	5A	5A			
Hexachlorocyclopentadiene _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Perylene _A	-	<100	<100	<100	-	<100	<100	µg/kg	100	A-T-052s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/1	20/06587/4	20/06587/6	20/06587/9	20/06587/18	20/06587/20	20/06587/25	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS9	WS9	WS10	WS11	WS14	WS14	WS16			
Depth to Top	0.35	2.30	0.90	0.90	0.90	2.40	0.95			
Depth To Bottom										
Date Sampled	27-Jul-20	27-Jul-20	27-Jul-20	27-Jul-20	28-Jul-20	28-Jul-20	28-Jul-20			
Sample Type	Soil	Solid	Solid	Solid	Soil	Soil	Soil			
Sample Matrix Code	5A	7	7	7	5AB	5A	5A			
VOC										
Dichlorodifluoromethane _A	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Chloromethane _A	-	<10	<10	<10	-	<10	<10	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene) _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromomethane _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Chloroethane _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Trichlorofluoromethane _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Carbon Disulphide _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Dichloromethane _A	-	<5	<5	<5	-	<5	<5	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethane _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
2,2-Dichloropropane _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromochloromethane _A [#]	-	<5	<5	<5	-	<5	<5	µg/kg	5	A-T-006s
Chloroform _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1,1-Trichloroethane _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloropropene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Carbon Tetrachloride _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloroethane _A [#]	-	<2	<2	<2	-	<2	<2	µg/kg	2	A-T-006s
Benzene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Trichloroethene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloropropane _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Dibromomethane _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromodichloromethane _A [#]	-	<10	<10	<10	-	<10	<10	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Toluene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1,2-Trichloroethane _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,3-Dichloropropane _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Tetrachloroethene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Dibromochloromethane _A [#]	-	<3	<3	<3	-	<3	<3	µg/kg	3	A-T-006s
1,2-Dibromoethane _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/1	20/06587/4	20/06587/6	20/06587/9	20/06587/18	20/06587/20	20/06587/25	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS9	WS9	WS10	WS11	WS14	WS14	WS16			
Depth to Top	0.35	2.30	0.90	0.90	0.90	2.40	0.95			
Depth To Bottom										
Date Sampled	27-Jul-20	27-Jul-20	27-Jul-20	27-Jul-20	28-Jul-20	28-Jul-20	28-Jul-20			
Sample Type	Soil	Solid	Solid	Solid	Soil	Soil	Soil			
Sample Matrix Code	5A	7	7	7	5AB	5A	5A			
Chlorobenzene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane _A	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Ethylbenzene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
m & p Xylene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
o-Xylene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Styrene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromoform _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Isopropylbenzene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane _A	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichloropropane _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromobenzene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
n-Propylbenzene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
2-Chlorotoluene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
4-Chlorotoluene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
tert-Butylbenzene _A [#]	-	<2	<2	<2	-	<2	<2	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
sec-Butylbenzene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
4-Isopropyltoluene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,3-Dichlorobenzene _A	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,4-Dichlorobenzene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
n-Butylbenzene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dichlorobenzene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP) _A	-	<2	<2	<2	-	<2	<2	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene _A	-	<3	<3	<3	-	<3	<3	µg/kg	3	A-T-006s
Hexachlorobutadiene _A [#]	-	<1	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene _A	-	<3	<3	<3	-	<3	<3	µg/kg	3	A-T-006s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/1	20/06587/4	20/06587/6	20/06587/9	20/06587/18	20/06587/20	20/06587/25	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS9	WS9	WS10	WS11	WS14	WS14	WS16			
Depth to Top	0.35	2.30	0.90	0.90	0.90	2.40	0.95			
Depth To Bottom										
Date Sampled	27-Jul-20	27-Jul-20	27-Jul-20	27-Jul-20	28-Jul-20	28-Jul-20	28-Jul-20			
Sample Type	Soil	Solid	Solid	Solid	Soil	Soil	Soil			
Sample Matrix Code	5A	7	7	7	5AB	5A	5A			
TPH CWG										
Ali >C5-C6 _A [#]	-	<0.02	<0.02	<0.02	-	<0.02	<0.02	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	-	<1	<1	<1	-	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	-	<1	<1	<1	-	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	-	<1	<1	1	-	<1	<1	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	-	<1	<1	3	-	<1	<1	mg/kg	1	A-T-055s
Ali >C21-C35 _A	-	19	2	23	-	6	<1	mg/kg	1	A-T-055s
Total Aliphatics _A	-	19	2	27	-	6	2	mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	-	<1	<1	<1	-	<1	<1	mg/kg	1	A-T-055s
Aro >C10-C12 _A ^{M#}	-	<1	<1	<1	-	<1	<1	mg/kg	1	A-T-055s
Aro >C12-C16 _A	-	<1	<1	<1	-	<1	<1	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	-	3	<1	1	-	<1	<1	mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	-	10	<1	3	-	8	<1	mg/kg	1	A-T-055s
Total Aromatics _A	-	14	<1	4	-	8	<1	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	-	33	2	31	-	13	2	mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE _A [#]	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s

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Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/32	20/06587/38	20/06587/39	20/06587/40	20/06587/45	20/06587/49	20/06587/54	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS18	WS20	WS20	WS20	WS21	WS21	WS23			
Depth to Top	2.30	0.40	0.90	1.90	1.30	2.70	1.00			
Depth To Bottom										
Date Sampled	28-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20			
Sample Type	Solid	Solid	Soil	Solid	Soil	Solid	Solid			
Sample Matrix Code	7	7	5A	7	5ABE	7	7			
% Stones >10mm _A	<0.1	<0.1	6.0	20.2	0.6	<0.1	<0.1	% w/w	0.1	A-T-044
pH _D ^{M#}	8.48	-	7.71	8.72	-	8.71	-	pH	0.01	A-T-031s
Total Organic Carbon _D ^{M#}	0.19	-	-	-	-	0.12	-	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	1	-	2	<1	-	2	-	mg/kg	1	A-T-024s
Beryllium _D [#]	<0.5	-	0.6	<0.5	-	0.5	-	mg/kg	0.5	A-T-024s
Boron (water soluble) _D	<1.0	-	<1.0	<1.0	-	<1.0	-	mg/kg	1	A-T-027s
Cadmium _D ^{M#}	<0.5	-	0.8	<0.5	-	0.6	-	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	4	-	19	4	-	9	-	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	-	<1	<1	-	<1	-	mg/kg	1	A-T-040s
Lead _D ^{M#}	5	-	43	2	-	6	-	mg/kg	1	A-T-024s
Mercury _D	2.82	-	<0.17	5.03	-	2.70	-	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	5	-	13	4	-	39	-	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	-	<1	<1	-	<1	-	mg/kg	1	A-T-024s
Vanadium _D ^{M#}	8	-	31	6	-	19	-	mg/kg	1	A-T-024s
Zinc _D ^{M#}	14	-	54	12	-	19	-	mg/kg	5	A-T-024s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/32	20/06587/38	20/06587/39	20/06587/40	20/06587/45	20/06587/49	20/06587/54	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS18	WS20	WS20	WS20	WS21	WS21	WS23			
Depth to Top	2.30	0.40	0.90	1.90	1.30	2.70	1.00			
Depth To Bottom										
Date Sampled	28-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20			
Sample Type	Solid	Solid	Soil	Solid	Soil	Solid	Solid			
Sample Matrix Code	7	7	5A	7	5ABE	7	7			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	-	<0.01	<0.01	<0.01	0.03	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	-	<0.02	<0.02	<0.02	<0.02	0.03	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	-	<0.04	<0.04	<0.04	<0.04	0.29	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	-	<0.04	<0.04	<0.04	<0.04	0.35	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.56	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.23	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	-	<0.07	<0.07	<0.07	<0.07	0.17	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	-	<0.06	<0.06	<0.06	<0.06	0.38	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	-	<0.04	<0.04	<0.04	<0.04	0.07	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	-	<0.08	<0.08	<0.08	<0.08	0.33	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	-	<0.01	<0.01	<0.01	0.02	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	-	<0.03	<0.03	<0.03	<0.03	0.29	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	-	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	-	<0.03	<0.03	<0.03	0.04	0.08	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	-	<0.07	<0.07	<0.07	<0.07	0.27	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	<0.08	-	<0.08	<0.08	<0.08	0.09	3.05	mg/kg	0.01	A-T-019s

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Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/32	20/06587/38	20/06587/39	20/06587/40	20/06587/45	20/06587/49	20/06587/54	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS18	WS20	WS20	WS20	WS21	WS21	WS23			
Depth to Top	2.30	0.40	0.90	1.90	1.30	2.70	1.00			
Depth To Bottom										
Date Sampled	28-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20			
Sample Type	Solid	Solid	Soil	Solid	Soil	Solid	Solid			
Sample Matrix Code	7	7	5A	7	5ABE	7	7			
Speciated PCB-WHO12										
PCB BZ 81 _A	-	<0.005	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 105 _A	-	<0.005	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 114 _A	-	<0.005	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 118 _A ^{M#}	-	<0.007	-	-	-	-	-	mg/kg	0.007	A-T-004s
PCB BZ 123 _A	-	<0.005	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 126 _A	-	<0.005	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 156 _A	-	<0.005	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 157 _A	-	<0.005	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 167 _A	-	<0.005	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 169 _A	-	<0.005	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 189 _A	-	<0.005	-	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 77 _A	-	<0.005	-	-	-	-	-	mg/kg	0.005	A-T-004s
Total Speciated PCB-WHO12 _A	-	<0.007	-	-	-	-	-	mg/kg	0.005	A-T-004s

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Lab Sample ID	20/06587/32	20/06587/38	20/06587/39	20/06587/40	20/06587/45	20/06587/49	20/06587/54	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS18	WS20	WS20	WS20	WS21	WS21	WS23			
Depth to Top	2.30	0.40	0.90	1.90	1.30	2.70	1.00			
Depth To Bottom										
Date Sampled	28-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20			
Sample Type	Solid	Solid	Soil	Solid	Soil	Solid	Solid			
Sample Matrix Code	7	7	5A	7	5ABE	7	7			
SVOC										
Hexachlorobenzene _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
Diethyl phthalate _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
Dimethyl phthalate _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
Dibenzofuran _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
Carbazole _A	<100	-	-	<100	-	<500	149	µg/kg	100	A-T-052s
Butylbenzyl phthalate _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate _A	<500	-	-	<500	-	<2500	<500	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
4-Nitrophenol _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
3+4-Methylphenol _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
2-Nitrophenol _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
2-Methylphenol _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
2-Chlorophenol _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
2,6-Dinitrotoluene _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
2,4-Dinitrotoluene _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
2,4-Dimethylphenol _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
2,4-Dichlorophenol _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
2-Chloronaphthalene _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
2-Methylnaphthalene _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
Phenol _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC) _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
n-Diethylphthalate _A	<500	-	-	<500	-	<2500	<500	µg/kg	500	A-T-052s
n-Dibutylphthalate _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
Nitrobenzene _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
Isophorone _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
Hexachloroethane _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s

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Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/32	20/06587/38	20/06587/39	20/06587/40	20/06587/45	20/06587/49	20/06587/54	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS18	WS20	WS20	WS20	WS21	WS21	WS23			
Depth to Top	2.30	0.40	0.90	1.90	1.30	2.70	1.00			
Depth To Bottom										
Date Sampled	28-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20			
Sample Type	Solid	Solid	Soil	Solid	Soil	Solid	Solid			
Sample Matrix Code	7	7	5A	7	5ABE	7	7			
Hexachlorocyclopentadiene _A	<100	-	-	<100	-	<500	<100	µg/kg	100	A-T-052s
Perylene _A	<100	-	-	<100	-	<500	896	µg/kg	100	A-T-052s

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Client Project Ref: 10/1425

Lab Sample ID	20/06587/32	20/06587/38	20/06587/39	20/06587/40	20/06587/45	20/06587/49	20/06587/54	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS18	WS20	WS20	WS20	WS21	WS21	WS23			
Depth to Top	2.30	0.40	0.90	1.90	1.30	2.70	1.00			
Depth To Bottom										
Date Sampled	28-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20			
Sample Type	Solid	Solid	Soil	Solid	Soil	Solid	Solid			
Sample Matrix Code	7	7	5A	7	5ABE	7	7			
VOC										
Dichlorodifluoromethane _A	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Chloromethane _A	<10	-	-	<10	-	<10	<10	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene) _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromomethane _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Chloroethane _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Trichlorofluoromethane _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Carbon Disulphide _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Dichloromethane _A	<5	-	-	<5	-	<5	<5	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethane _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
2,2-Dichloropropane _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromochloromethane _A [#]	<5	-	-	<5	-	<5	<5	µg/kg	5	A-T-006s
Chloroform _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1,1-Trichloroethane _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloropropene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Carbon Tetrachloride _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloroethane _A [#]	<2	-	-	<2	-	<2	<2	µg/kg	2	A-T-006s
Benzene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Trichloroethene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloropropane _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Dibromomethane _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromodichloromethane _A [#]	<10	-	-	<10	-	<10	<10	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Toluene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1,2-Trichloroethane _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,3-Dichloropropane _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Tetrachloroethene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Dibromochloromethane _A [#]	<3	-	-	<3	-	<3	<3	µg/kg	3	A-T-006s
1,2-Dibromoethane _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s

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Client Project Ref: 10/1425

Lab Sample ID	20/06587/32	20/06587/38	20/06587/39	20/06587/40	20/06587/45	20/06587/49	20/06587/54	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS18	WS20	WS20	WS20	WS21	WS21	WS23			
Depth to Top	2.30	0.40	0.90	1.90	1.30	2.70	1.00			
Depth To Bottom										
Date Sampled	28-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20			
Sample Type	Solid	Solid	Soil	Solid	Soil	Solid	Solid			
Sample Matrix Code	7	7	5A	7	5ABE	7	7			
Chlorobenzene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane _A	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Ethylbenzene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
m & p Xylene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
o-Xylene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Styrene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromoform _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Isopropylbenzene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane _A	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichloropropane _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromobenzene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
n-Propylbenzene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
2-Chlorotoluene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
4-Chlorotoluene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
tert-Butylbenzene _A [#]	<2	-	-	<2	-	<2	<2	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
sec-Butylbenzene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
4-Isopropyltoluene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,3-Dichlorobenzene _A	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,4-Dichlorobenzene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
n-Butylbenzene _A [#]	<1	-	-	<1	-	8	<1	µg/kg	1	A-T-006s
1,2-Dichlorobenzene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP) _A	<2	-	-	<2	-	<2	<2	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene _A	<3	-	-	<3	-	<3	<3	µg/kg	3	A-T-006s
Hexachlorobutadiene _A [#]	<1	-	-	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene _A	<3	-	-	<3	-	<3	<3	µg/kg	3	A-T-006s

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Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/32	20/06587/38	20/06587/39	20/06587/40	20/06587/45	20/06587/49	20/06587/54	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS18	WS20	WS20	WS20	WS21	WS21	WS23			
Depth to Top	2.30	0.40	0.90	1.90	1.30	2.70	1.00			
Depth To Bottom										
Date Sampled	28-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20	29-Jul-20			
Sample Type	Solid	Solid	Soil	Solid	Soil	Solid	Solid			
Sample Matrix Code	7	7	5A	7	5ABE	7	7			
TPH CWG										
Ali >C5-C6 _A [#]	<0.02	-	-	<0.02	<0.02	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	-	-	<0.01	<0.01	0.02	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	-	-	<1	<1	25	<1	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	-	-	<1	3	97	<1	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	-	-	<1	6	273	<1	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	-	-	<1	4	200	<1	mg/kg	1	A-T-055s
Ali >C21-C35 _A	<1	-	-	<1	2	23	12	mg/kg	1	A-T-055s
Total Aliphatics _A	<1	-	-	<1	15	618	12	mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	-	-	<1	<1	16	<1	mg/kg	1	A-T-055s
Aro >C10-C12 _A ^{M#}	<1	-	-	<1	3	63	<1	mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	-	-	<1	8	243	<1	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	-	-	<1	4	141	3	mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	<1	-	-	<1	2	18	44	mg/kg	1	A-T-055s
Total Aromatics _A	<1	-	-	<1	17	480	47	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	<1	-	-	<1	32	1100	59	mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s

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Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/57	20/06587/60	20/06587/62	20/06587/65	20/06587/70	20/06587/74	20/06587/77	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS24	WS24	WS25	WS25	WS26	WS26	WS27			
Depth to Top	1.30	2.30	0.40	1.70	1.50	2.30	0.80			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Soil			
Sample Matrix Code	7	5A	7	5AB	5AB	7	6AE			
% Stones >10mm _A	<0.1	13.7	<0.1	28.7	40.0	<0.1	18.7	% w/w	0.1	A-T-044
pH _D ^{M#}	8.06	8.85	-	7.66	-	8.91	-	pH	0.01	A-T-031s
Total Organic Carbon _D ^{M#}	0.13	0.05	-	-	-	0.08	-	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	1	<1	-	<1	-	<1	-	mg/kg	1	A-T-024s
Beryllium _D [#]	0.8	0.6	-	0.7	-	<0.5	-	mg/kg	0.5	A-T-024s
Boron (water soluble) _D	<1.0	<1.0	-	<1.0	-	<1.0	-	mg/kg	1	A-T-027s
Cadmium _D ^{M#}	0.7	0.6	-	0.6	-	<0.5	-	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	10	3	-	8	-	5	-	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	-	<1	-	<1	-	mg/kg	1	A-T-040s
Lead _D ^{M#}	16	5	-	9	-	3	-	mg/kg	1	A-T-024s
Mercury _D	<0.17	3.19	-	<0.17	-	0.69	-	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	20	7	-	19	-	60	-	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	-	<1	-	<1	-	mg/kg	1	A-T-024s
Vanadium _D ^{M#}	35	15	-	24	-	5	-	mg/kg	1	A-T-024s
Zinc _D ^{M#}	46	21	-	34	-	6	-	mg/kg	5	A-T-024s

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Client Sample No										
Client Sample ID	WS24	WS24	WS25	WS25	WS26	WS26	WS27			
Depth to Top	1.30	2.30	0.40	1.70	1.50	2.30	0.80			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Soil			
Sample Matrix Code	7	5A	7	5AB	5AB	7	6AE			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	-	<0.02	<0.02	<0.02	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	-	0.11	<0.04	<0.04	0.11	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	<0.04	-	0.12	<0.04	<0.04	0.15	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	<0.05	-	0.19	<0.05	<0.05	0.21	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	-	0.08	<0.05	<0.05	0.14	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	-	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	-	0.12	<0.06	<0.06	0.15	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	-	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	-	0.18	<0.08	<0.08	0.14	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	-	0.11	<0.03	<0.03	0.16	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	-	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	-	<0.03	<0.03	<0.03	0.06	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	-	0.16	<0.07	<0.07	0.14	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	<0.08	<0.08	-	1.07	<0.08	<0.08	1.26	mg/kg	0.01	A-T-019s

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Client Sample No										
Client Sample ID	WS24	WS24	WS25	WS25	WS26	WS26	WS27			
Depth to Top	1.30	2.30	0.40	1.70	1.50	2.30	0.80			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Soil			
Sample Matrix Code	7	5A	7	5AB	5AB	7	6AE			
Speciated PCB-WHO12										
PCB BZ 81 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 105 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 114 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 118 _A ^{M#}	-	-	<0.007	-	-	-	-	mg/kg	0.007	A-T-004s
PCB BZ 123 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 126 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 156 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 157 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 167 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 169 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 189 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 77 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
Total Speciated PCB-WHO12 _A	-	-	<0.007	-	-	-	-	mg/kg	0.005	A-T-004s

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Client Sample No										
Client Sample ID	WS24	WS24	WS25	WS25	WS26	WS26	WS27			
Depth to Top	1.30	2.30	0.40	1.70	1.50	2.30	0.80			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Soil			
Sample Matrix Code	7	5A	7	5AB	5AB	7	6AE			
SVOC										
Hexachlorobenzene _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Diethyl phthalate _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Dimethyl phthalate _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Dibenzofuran _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Carbazole _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Butylbenzyl phthalate _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate _A	<500	<500	-	<500	<500	<500	<500	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
4-Nitrophenol _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
3+4-Methylphenol _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
2-Nitrophenol _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
2-Methylphenol _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
2-Chlorophenol _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
2,6-Dinitrotoluene _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
2,4-Dinitrotoluene _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
2,4-Dimethylphenol _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
2,4-Dichlorophenol _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
2-Chloronaphthalene _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
2-Methylnaphthalene _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Phenol _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC) _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
n-Diethylphthalate _A	<500	<500	-	<500	<500	<500	<500	µg/kg	500	A-T-052s
n-Dibutylphthalate _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Nitrobenzene _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Isophorone _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Hexachloroethane _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s

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Lab Sample ID	20/06587/57	20/06587/60	20/06587/62	20/06587/65	20/06587/70	20/06587/74	20/06587/77	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS24	WS24	WS25	WS25	WS26	WS26	WS27			
Depth to Top	1.30	2.30	0.40	1.70	1.50	2.30	0.80			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Soil			
Sample Matrix Code	7	5A	7	5AB	5AB	7	6AE			
Hexachlorocyclopentadiene _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s
Perylene _A	<100	<100	-	<100	<100	<100	<100	µg/kg	100	A-T-052s

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Lab Sample ID	20/06587/57	20/06587/60	20/06587/62	20/06587/65	20/06587/70	20/06587/74	20/06587/77	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS24	WS24	WS25	WS25	WS26	WS26	WS27			
Depth to Top	1.30	2.30	0.40	1.70	1.50	2.30	0.80			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Soil			
Sample Matrix Code	7	5A	7	5AB	5AB	7	6AE			
VOC										
Dichlorodifluoromethane _A	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Chloromethane _A	<10	<10	-	<10	<10	<10	<10	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene) _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromomethane _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Chloroethane _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Trichlorofluoromethane _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Carbon Disulphide _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Dichloromethane _A	<5	<5	-	<5	<5	<5	<5	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethane _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
2,2-Dichloropropane _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromochloromethane _A [#]	<5	<5	-	<5	<5	<5	<5	µg/kg	5	A-T-006s
Chloroform _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1,1-Trichloroethane _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloropropene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Carbon Tetrachloride _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloroethane _A [#]	<2	<2	-	<2	<2	<2	<2	µg/kg	2	A-T-006s
Benzene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Trichloroethene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloropropane _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Dibromomethane _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromodichloromethane _A [#]	<10	<10	-	<10	<10	<10	<10	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Toluene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1,2-Trichloroethane _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,3-Dichloropropane _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Tetrachloroethene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Dibromochloromethane _A [#]	<3	<3	-	<3	<3	<3	<3	µg/kg	3	A-T-006s
1,2-Dibromoethane _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s

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Lab Sample ID	20/06587/57	20/06587/60	20/06587/62	20/06587/65	20/06587/70	20/06587/74	20/06587/77	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS24	WS24	WS25	WS25	WS26	WS26	WS27			
Depth to Top	1.30	2.30	0.40	1.70	1.50	2.30	0.80			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Soil			
Sample Matrix Code	7	5A	7	5AB	5AB	7	6AE			
Chlorobenzene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane _A	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Ethylbenzene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
m & p Xylene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
o-Xylene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Styrene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromoform _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Isopropylbenzene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane _A	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichloropropane _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromobenzene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
n-Propylbenzene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
2-Chlorotoluene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
4-Chlorotoluene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
tert-Butylbenzene _A [#]	<2	<2	-	<2	<2	<2	<2	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
sec-Butylbenzene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
4-Isopropyltoluene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,3-Dichlorobenzene _A	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,4-Dichlorobenzene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
n-Butylbenzene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2-Dichlorobenzene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP) _A	<2	<2	-	<2	<2	<2	<2	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene _A	<3	<3	-	<3	<3	<3	<3	µg/kg	3	A-T-006s
Hexachlorobutadiene _A [#]	<1	<1	-	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene _A	<3	<3	-	<3	<3	<3	<3	µg/kg	3	A-T-006s

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Client Project Name: Langstone Technology Park

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Lab Sample ID	20/06587/57	20/06587/60	20/06587/62	20/06587/65	20/06587/70	20/06587/74	20/06587/77	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS24	WS24	WS25	WS25	WS26	WS26	WS27			
Depth to Top	1.30	2.30	0.40	1.70	1.50	2.30	0.80			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Soil			
Sample Matrix Code	7	5A	7	5AB	5AB	7	6AE			
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	-	-	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	-	-	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	-	-	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	<1	-	-	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C21-C35 _A	<1	<1	-	-	<1	<1	9	mg/kg	1	A-T-055s
Total Aliphatics _A	<1	<1	-	-	<1	<1	9	mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<1	-	-	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C10-C12 _A ^{M#}	<1	<1	-	-	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	<1	-	-	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	<1	-	-	<1	<1	2	mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	<1	<1	-	-	<1	<1	15	mg/kg	1	A-T-055s
Total Aromatics _A	<1	<1	-	-	<1	<1	17	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	<1	<1	-	-	<1	<1	26	mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s

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Client Project Name: Langstone Technology Park

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Lab Sample ID	20/06587/87	20/06587/90	20/06587/92	20/06587/113	20/06587/119	20/06587/120	20/06587/123	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS28	WS29	WS29	WS30	WS31	WS31	WS32			
Depth to Top	2.30	0.80	2.40	1.00	2.50	2.70	2.60			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Solid			
Sample Matrix Code	7	5A	7	5ABE	5AE	7	7			
% Stones >10mm _A	<0.1	<0.1	<0.1	36.7	44.7	<0.1	<0.1	% w/w	0.1	A-T-044
pH _D ^{M#}	8.85	7.89	-	8.07	8.20	8.86	8.88	pH	0.01	A-T-031s
Total Organic Carbon _D ^{M#}	0.07	0.53	0.13	-	0.38	0.08	0.11	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	3	-	-	61	<1	<1	<1	mg/kg	1	A-T-024s
Beryllium _D [#]	<0.5	-	-	0.8	<0.5	<0.5	<0.5	mg/kg	0.5	A-T-024s
Boron (water soluble) _D	<1.0	-	-	<1.0	<1.0	<1.0	1.2	mg/kg	1	A-T-027s
Cadmium _D ^{M#}	0.6	-	-	1.6	<0.5	<0.5	<0.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	7	-	-	11	7	4	5	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	-	-	<1	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	5	-	-	13	8	4	3	mg/kg	1	A-T-024s
Mercury _D	2.68	-	-	<0.17	0.22	3.69	1.83	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	20	-	-	20	11	12	36	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	-	-	<1	<1	<1	<1	mg/kg	1	A-T-024s
Vanadium _D ^{M#}	14	-	-	38	16	8	7	mg/kg	1	A-T-024s
Zinc _D ^{M#}	18	-	-	41	30	13	9	mg/kg	5	A-T-024s

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Lab Sample ID	20/06587/87	20/06587/90	20/06587/92	20/06587/113	20/06587/119	20/06587/120	20/06587/123	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS28	WS29	WS29	WS30	WS31	WS31	WS32			
Depth to Top	2.30	0.80	2.40	1.00	2.50	2.70	2.60			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Solid			
Sample Matrix Code	7	5A	7	5ABE	5AE	7	7			
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	-	NAD	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	-	N/A	-	-	-	-	-			A-T-045

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Client Sample No										
Client Sample ID	WS28	WS29	WS29	WS30	WS31	WS31	WS32			
Depth to Top	2.30	0.80	2.40	1.00	2.50	2.70	2.60			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Solid			
Sample Matrix Code	7	5A	7	5ABE	5AE	7	7			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	0.13	0.11	0.31	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	<0.02	0.11	0.08	0.20	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	0.07	0.12	0.14	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	0.05	<0.04	0.11	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	<0.05	<0.05	0.06	0.08	0.16	0.19	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	<0.06	<0.06	0.09	0.16	0.17	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	<0.08	<0.08	0.28	0.58	0.55	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	0.27	0.35	0.47	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	<0.03	0.04	0.03	0.07	0.08	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.05	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	0.66	1.34	1.26	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	0.27	0.48	0.55	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	<0.08	<0.08	<0.08	0.10	2.04	3.45	4.13	mg/kg	0.01	A-T-019s

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Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/87	20/06587/90	20/06587/92	20/06587/113	20/06587/119	20/06587/120	20/06587/123	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS28	WS29	WS29	WS30	WS31	WS31	WS32			
Depth to Top	2.30	0.80	2.40	1.00	2.50	2.70	2.60			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Solid			
Sample Matrix Code	7	5A	7	5ABE	5AE	7	7			
SVOC										
Hexachlorobenzene _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Diethyl phthalate _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Dimethyl phthalate _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Dibenzofuran _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Carbazole _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Butylbenzyl phthalate _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate _A	<500	<500	<500	<500	<500	<500	<500	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
4-Nitrophenol _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
3+4-Methylphenol _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
2-Nitrophenol _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
2-Methylphenol _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
2-Chlorophenol _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
2,6-Dinitrotoluene _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
2,4-Dinitrotoluene _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
2,4-Dimethylphenol _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
2,4-Dichlorophenol _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
2-Chloronaphthalene _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
2-Methylnaphthalene _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Phenol _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC) _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
n-Diethylphthalate _A	<500	<500	<500	<500	<500	<500	<500	µg/kg	500	A-T-052s
n-Dibutylphthalate _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Nitrobenzene _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Isophorone _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Hexachloroethane _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s

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Lab Sample ID	20/06587/87	20/06587/90	20/06587/92	20/06587/113	20/06587/119	20/06587/120	20/06587/123	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS28	WS29	WS29	WS30	WS31	WS31	WS32			
Depth to Top	2.30	0.80	2.40	1.00	2.50	2.70	2.60			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Solid			
Sample Matrix Code	7	5A	7	5ABE	5AE	7	7			
Hexachlorocyclopentadiene _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s
Perylene _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s

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Client Project Ref: 10/1425

Lab Sample ID	20/06587/87	20/06587/90	20/06587/92	20/06587/113	20/06587/119	20/06587/120	20/06587/123	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS28	WS29	WS29	WS30	WS31	WS31	WS32			
Depth to Top	2.30	0.80	2.40	1.00	2.50	2.70	2.60			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Solid			
Sample Matrix Code	7	5A	7	5ABE	5AE	7	7			
VOC										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Chloromethane _A	<10	<10	<10	<10	<10	<10	<10	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	2	1	µg/kg	1	A-T-006s
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/kg	5	A-T-006s
Chloroform _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Carbon Tetrachloride _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/kg	2	A-T-006s
Benzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Trichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Toluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Tetrachloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/kg	3	A-T-006s
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s

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Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/87	20/06587/90	20/06587/92	20/06587/113	20/06587/119	20/06587/120	20/06587/123	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS28	WS29	WS29	WS30	WS31	WS31	WS32			
Depth to Top	2.30	0.80	2.40	1.00	2.50	2.70	2.60			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Solid			
Sample Matrix Code	7	5A	7	5ABE	5AE	7	7			
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Styrene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromoform _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Isopropylbenzene _A [#]	<1	<1	<1	<1	3	<1	10	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
n-Propylbenzene _A [#]	<1	<1	<1	<1	9	<1	23	µg/kg	1	A-T-006s
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2	5	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	19	<1	33	µg/kg	1	A-T-006s
sec-Butylbenzene _A [#]	<1	<1	<1	<1	23	<1	61	µg/kg	1	A-T-006s
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,3-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
n-Butylbenzene _A [#]	<1	<1	<1	<1	43	<1	194	µg/kg	1	A-T-006s
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP) _A	<2	<2	<2	<2	<2	<2	<2	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene _A	<3	<3	<3	<3	<3	<3	<3	µg/kg	3	A-T-006s
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene _A	<3	<3	<3	<3	<3	<3	<3	µg/kg	3	A-T-006s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/87	20/06587/90	20/06587/92	20/06587/113	20/06587/119	20/06587/120	20/06587/123	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS28	WS29	WS29	WS30	WS31	WS31	WS32			
Depth to Top	2.30	0.80	2.40	1.00	2.50	2.70	2.60			
Depth To Bottom										
Date Sampled	30-Jul-20	30-Jul-20	30-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20			
Sample Type	Solid	Soil	Solid	Soil	Soil	Solid	Solid			
Sample Matrix Code	7	5A	7	5ABE	5AE	7	7			
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	0.02	0.10	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	<1	16	22	19	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	97	80	75	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	<1	465	276	294	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	<1	<1	<1	369	227	243	mg/kg	1	A-T-055s
Ali >C21-C35 _A	<1	4	1	<1	62	42	45	mg/kg	1	A-T-055s
Total Aliphatics _A	<1	4	1	<1	1010	646	676	mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<1	<1	<1	10	12	9	mg/kg	1	A-T-055s
Aro >C10-C12 _A ^{M#}	<1	<1	<1	<1	61	60	43	mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	<1	<1	<1	300	205	175	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	1	<1	<1	243	151	141	mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	<1	8	<1	4	34	22	26	mg/kg	1	A-T-055s
Total Aromatics _A	<1	10	<1	4	649	449	393	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	<1	13	1	4	1660	1100	1070	mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/124							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS32									
Depth to Top	2.40									
Depth To Bottom										
Date Sampled	31-Jul-20									
Sample Type	Soil									
Sample Matrix Code	6AB									
% Stones >10mm _A	1.2							% w/w	0.1	A-T-044
pH _D ^{M#}	8.55							pH	0.01	A-T-031s
Total Organic Carbon _D ^{M#}	0.63							% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	<1							mg/kg	1	A-T-024s
Beryllium _D [#]	0.6							mg/kg	0.5	A-T-024s
Boron (water soluble) _D	1.1							mg/kg	1	A-T-027s
Cadmium _D ^{M#}	<0.5							mg/kg	0.5	A-T-024s
Copper _D ^{M#}	7							mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1							mg/kg	1	A-T-040s
Lead _D ^{M#}	9							mg/kg	1	A-T-024s
Mercury _D	2.99							mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	13							mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1							mg/kg	1	A-T-024s
Vanadium _D ^{M#}	14							mg/kg	1	A-T-024s
Zinc _D ^{M#}	25							mg/kg	5	A-T-024s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/124							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS32									
Depth to Top	2.40									
Depth To Bottom										
Date Sampled	31-Jul-20									
Sample Type	Soil									
Sample Matrix Code	6AB									
PAH-16MS										
Acenaphthene _A ^{M#}	0.27							mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	0.06							mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	0.23							mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.22							mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.16							mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.26							mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.09							mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07							mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	0.26							mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04							mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	0.86							mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.42							mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.13							mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	0.07							mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	0.94							mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	0.86							mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	4.83							mg/kg	0.01	A-T-019s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/124										
Client Sample No											
Client Sample ID	WS32										
Depth to Top	2.40										
Depth To Bottom											
Date Sampled	31-Jul-20										
Sample Type	Soil										
Sample Matrix Code	6AB										
SVOC											
Hexachlorobenzene _A	<100								µg/kg	100	A-T-052s
Diethyl phthalate _A	<100								µg/kg	100	A-T-052s
Dimethyl phthalate _A	<100								µg/kg	100	A-T-052s
Dibenzofuran _A	<100								µg/kg	100	A-T-052s
Carbazole _A	<100								µg/kg	100	A-T-052s
Butylbenzyl phthalate _A	<100								µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate _A	<500								µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane _A	<100								µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether _A	<100								µg/kg	100	A-T-052s
4-Nitrophenol _A	<100								µg/kg	100	A-T-052s
3+4-Methylphenol _A	<100								µg/kg	100	A-T-052s
4-Chloro-3-methylphenol _A	<100								µg/kg	100	A-T-052s
2-Nitrophenol _A	<100								µg/kg	100	A-T-052s
2-Methylphenol _A	<100								µg/kg	100	A-T-052s
2-Chlorophenol _A	<100								µg/kg	100	A-T-052s
2,6-Dinitrotoluene _A	<100								µg/kg	100	A-T-052s
2,4-Dinitrotoluene _A	<100								µg/kg	100	A-T-052s
2,4-Dimethylphenol _A	<100								µg/kg	100	A-T-052s
2,4-Dichlorophenol _A	<100								µg/kg	100	A-T-052s
2,4,6-Trichlorophenol _A	<100								µg/kg	100	A-T-052s
2,4,5-Trichlorophenol _A	<100								µg/kg	100	A-T-052s
2-Chloronaphthalene _A	<100								µg/kg	100	A-T-052s
2-Methylnaphthalene _A	<100								µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether _A	<100								µg/kg	100	A-T-052s
Phenol _A	<100								µg/kg	100	A-T-052s
Pentachlorophenol (SVOC) _A	<100								µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine _A	<100								µg/kg	100	A-T-052s
n-Dioctylphthalate _A	<500								µg/kg	500	A-T-052s
n-Dibutylphthalate _A	<100								µg/kg	100	A-T-052s
Nitrobenzene _A	<100								µg/kg	100	A-T-052s
Isophorone _A	<100								µg/kg	100	A-T-052s
Hexachloroethane _A	<100								µg/kg	100	A-T-052s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/124							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS32									
Depth to Top	2.40									
Depth To Bottom										
Date Sampled	31-Jul-20									
Sample Type	Soil									
Sample Matrix Code	6AB									
Hexachlorocyclopentadiene _A	<100							µg/kg	100	A-T-052s
Perylene _A	<100							µg/kg	100	A-T-052s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/124										
Client Sample No											
Client Sample ID	WS32										
Depth to Top	2.40										
Depth To Bottom											
Date Sampled	31-Jul-20										
Sample Type	Soil										
Sample Matrix Code	6AB										
VOC											
Dichlorodifluoromethane _A	<1								µg/kg	1	A-T-006s
Chloromethane _A	<10								µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene) _A [#]	<1								µg/kg	1	A-T-006s
Bromomethane _A [#]	<1								µg/kg	1	A-T-006s
Chloroethane _A [#]	<1								µg/kg	1	A-T-006s
Trichlorofluoromethane _A [#]	<1								µg/kg	1	A-T-006s
1,1-Dichloroethene _A [#]	<1								µg/kg	1	A-T-006s
Carbon Disulphide _A [#]	<1								µg/kg	1	A-T-006s
Dichloromethane _A	<5								µg/kg	5	A-T-006s
trans 1,2-Dichloroethene _A [#]	<1								µg/kg	1	A-T-006s
1,1-Dichloroethane _A [#]	<1								µg/kg	1	A-T-006s
cis 1,2-Dichloroethene _A [#]	<1								µg/kg	1	A-T-006s
2,2-Dichloropropane _A [#]	<1								µg/kg	1	A-T-006s
Bromochloromethane _A [#]	<5								µg/kg	5	A-T-006s
Chloroform _A [#]	<1								µg/kg	1	A-T-006s
1,1,1-Trichloroethane _A [#]	<1								µg/kg	1	A-T-006s
1,1-Dichloropropene _A [#]	<1								µg/kg	1	A-T-006s
Carbon Tetrachloride _A [#]	<1								µg/kg	1	A-T-006s
1,2-Dichloroethane _A [#]	<2								µg/kg	2	A-T-006s
Benzene _A [#]	<1								µg/kg	1	A-T-006s
Trichloroethene _A [#]	<1								µg/kg	1	A-T-006s
1,2-Dichloropropane _A [#]	<1								µg/kg	1	A-T-006s
Dibromomethane _A [#]	<1								µg/kg	1	A-T-006s
Bromodichloromethane _A [#]	<10								µg/kg	10	A-T-006s
cis 1,3-Dichloropropene _A [#]	<1								µg/kg	1	A-T-006s
Toluene _A [#]	<1								µg/kg	1	A-T-006s
trans 1,3-Dichloropropene _A [#]	<1								µg/kg	1	A-T-006s
1,1,2-Trichloroethane _A [#]	<1								µg/kg	1	A-T-006s
1,3-Dichloropropane _A [#]	<1								µg/kg	1	A-T-006s
Tetrachloroethene _A [#]	<1								µg/kg	1	A-T-006s
Dibromochloromethane _A [#]	<3								µg/kg	3	A-T-006s
1,2-Dibromoethane _A [#]	<1								µg/kg	1	A-T-006s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/124									
Client Sample No										
Client Sample ID	WS32									
Depth to Top	2.40									
Depth To Bottom										
Date Sampled	31-Jul-20									
Sample Type	Soil									
Sample Matrix Code	6AB									
								Units	Limit of Detection	Method ref
Chlorobenzene _A [#]	<1							µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane _A	<1							µg/kg	1	A-T-006s
Ethylbenzene _A [#]	<1							µg/kg	1	A-T-006s
m & p Xylene _A [#]	<1							µg/kg	1	A-T-006s
o-Xylene _A [#]	<1							µg/kg	1	A-T-006s
Styrene _A [#]	<1							µg/kg	1	A-T-006s
Bromoform _A [#]	<1							µg/kg	1	A-T-006s
Isopropylbenzene _A [#]	3							µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane _A	<1							µg/kg	1	A-T-006s
1,2,3-Trichloropropane _A [#]	<1							µg/kg	1	A-T-006s
Bromobenzene _A [#]	<1							µg/kg	1	A-T-006s
n-Propylbenzene _A [#]	8							µg/kg	1	A-T-006s
2-Chlorotoluene _A [#]	<1							µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene _A [#]	<1							µg/kg	1	A-T-006s
4-Chlorotoluene _A [#]	<1							µg/kg	1	A-T-006s
tert-Butylbenzene _A [#]	5							µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene _A [#]	13							µg/kg	1	A-T-006s
sec-Butylbenzene _A [#]	32							µg/kg	1	A-T-006s
4-Isopropyltoluene _A [#]	<1							µg/kg	1	A-T-006s
1,3-Dichlorobenzene _A	<1							µg/kg	1	A-T-006s
1,4-Dichlorobenzene _A [#]	<1							µg/kg	1	A-T-006s
n-Butylbenzene _A [#]	54							µg/kg	1	A-T-006s
1,2-Dichlorobenzene _A [#]	<1							µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP) _A	<2							µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene _A	<3							µg/kg	3	A-T-006s
Hexachlorobutadiene _A [#]	<1							µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene _A	<3							µg/kg	3	A-T-006s

Envirolab Job Number: 20/06587

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06587/124									
Client Sample No										
Client Sample ID	WS32									
Depth to Top	2.40									
Depth To Bottom										
Date Sampled	31-Jul-20									
Sample Type	Soil									
Sample Matrix Code	6AB									
TPH CWG										
Ali >C5-C6 _A [#]	<0.01							mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	0.05							mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	96							mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	382							mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	1370							mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	1080							mg/kg	1	A-T-055s
Ali >C21-C35 _A	189							mg/kg	1	A-T-055s
Total Aliphatics _A	3130							mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01							mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01							mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	52							mg/kg	1	A-T-055s
Aro >C10-C12 _A ^{M#}	305							mg/kg	1	A-T-055s
Aro >C12-C16 _A	998							mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	674							mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	86							mg/kg	1	A-T-055s
Total Aromatics _A	2120							mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	5230							mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	<0.01							mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01							mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01							mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01							mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01							mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01							mg/kg	0.01	A-T-022s

REPORT NOTES

General

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The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/07483
Issue Number: 1

Date: 16 September, 2020

Client: Clancy Consulting
Dunham Court
2 Dunham Road
Altrincham
Cheshire
UK
WA14 4NX

Project Manager: Sophie Harper-Pryce
Project Name: Langstone Technology Park
Project Ref: 10/1425
Order No: TBC
Date Samples Received: 07/09/20
Date Instructions Received: 08/09/20
Date Analysis Completed: 15/09/20

Prepared by:



Danielle Brierley
Client Manager

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 20/07483

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/07483/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20									
Depth to Top	2.50									
Depth To Bottom										
Date Sampled	04-Sep-20									
Sample Type	Solid									
Sample Matrix Code	7									
% Stones >10mm _A	<0.1							% w/w	0.1	A-T-044

Envirolab Job Number: 20/07483

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/07483/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20									
Depth to Top	2.50									
Depth To Bottom										
Date Sampled	04-Sep-20									
Sample Type	Solid									
Sample Matrix Code	7									
PAH-16MS										
Acenaphthene _A ^{M#}	0.03							mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01							mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02							mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04							mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04							mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05							mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05							mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07							mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06							mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04							mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08							mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.09							mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03							mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03							mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	0.18							mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07							mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	0.30							mg/kg	0.01	A-T-019s

Envirolab Job Number: 20/07483

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/07483/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS20									
Depth to Top	2.50									
Depth To Bottom										
Date Sampled	04-Sep-20									
Sample Type	Solid									
Sample Matrix Code	7									
TPH CWG										
Ali >C5-C6 _A [#]	<0.01							mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01							mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1							mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1							mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	316							mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	316							mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	973							mg/kg	1	A-T-055s
Total Aliphatics _A	1610							mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01							mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01							mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	3							mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1							mg/kg	1	A-T-055s
Aro >C12-C16 _A	65							mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	65							mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	44							mg/kg	1	A-T-055s
Total Aromatics _A	177							mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	1780							mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	<0.01							mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01							mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01							mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01							mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01							mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01							mg/kg	0.01	A-T-022s

REPORT NOTES

General

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The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Final Test Report

SUPPLEMENT TO TEST REPORT 20/06587/1

Envirolab Job Number: 20/06587
Issue Number: 2

Date: 26-Aug-20

Client: Clancy Consulting
Dunham Court
2 Dunham Road
Altrincham
Cheshire
UK, WA14 4NX

Project Manager: Daniel Hoyle
Project Name: Langstone Technology Park
Project Ref: 10/1425
Order No: 28793

Date Samples Received: 6-Aug-20
Date Instructions Received: 10-Aug-20
Date Analysis Completed: 26-Aug-20

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

Prepared by:



Sophie France
Client Service Manager

Approved by:



Richard Wong
Client Manager

Sample Details					Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	20/06587/57				
Client Sample Number					Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				WS24				
Depth to Top				1.3				
Depth to Bottom								
Date Sampled				30/07/2020				
Sample Type				Solid				
Sample Matrix Code				7				
Solid Waste Analysis								
pH (pH Units) _D	A-T-031	N	N	8.06	-	>6	-	
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.12	-	to be evaluated	to be evaluated	
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.04	-	to be evaluated	to be evaluated	
Loss on Ignition (%) _D	A-T-030	N	N	4.6	-	-	10	
Total Organic Carbon (%) _D	A-T-032	N	N	0.13	3	5	6	
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	<0.08	100	-	-	
Mineral Oil (mg/kg) _A	A-T-007	N	N	<10	500	-	-	
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007	1	-	-	
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01	6	-	-	
Eluate Analysis				10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
				mg/l	mg/kg			
Arsenic	A-T-025	N	N	0.001	0.010	0.5	2	25
Barium	A-T-025	N	N	0.108	1.080	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.01	0.04	1	5
Chromium	A-T-025	N	N	<0.001	<0.01	0.5	10	70
Copper	A-T-025	N	N	0.002	0.020	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	<0.01	0.5	10	30
Nickel	A-T-025	N	N	0.001	0.010	0.4	10	40
Lead	A-T-025	N	N	0.006	0.060	0.5	10	50
Antimony	A-T-025	N	N	<0.001	<0.01	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.008	0.080	4	50	200
Chloride	A-T-026	N	N	37	373	800	15000	25000
Fluoride	A-T-026	N	N	0.4	4.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	145	1446	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	28	280	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<0.2	<200	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.1				
Conductivity (µS/cm)	A-T-037			57				
Mass Sample (kg)				0.208				
Dry Matter (%)	A-T-044	N	N	83.9				
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation								

Sample Details					Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	20/06587/90				
Client Sample Number					Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				WS29				
Depth to Top				0.8				
Depth to Bottom								
Date Sampled				30/07/2020				
Sample Type				Soil				
Sample Matrix Code				5A				
Solid Waste Analysis								
pH (pH Units) _D	A-T-031	N	N	7.89	-	>6	-	
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.13	-	to be evaluated	to be evaluated	
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.08	-	to be evaluated	to be evaluated	
Loss on Ignition (%) _D	A-T-030	N	N	5.1	-	-	10	
Total Organic Carbon (%) _D	A-T-032	N	N	0.53	3	5	6	
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	<0.08	100	-	-	
Mineral Oil (mg/kg) _A	A-T-007	N	N	<10	500	-	-	
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007	1	-	-	
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01	6	-	-	
Eluate Analysis				10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
				mg/l	mg/kg			
Arsenic	A-T-025	N	N	0.006	0.060	0.5	2	25
Barium	A-T-025	N	N	0.731	7.310	20	100	300
Cadmium	A-T-025	N	N	0.001	0.010	0.04	1	5
Chromium	A-T-025	N	N	0.004	0.040	0.5	10	70
Copper	A-T-025	N	N	0.101	1.010	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	<0.01	0.5	10	30
Nickel	A-T-025	N	N	0.015	0.150	0.4	10	40
Lead	A-T-025	N	N	0.072	0.720	0.5	10	50
Antimony	A-T-025	N	N	<0.001	<0.01	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.057	0.570	4	50	200
Chloride	A-T-026	N	N	12	122	800	15000	25000
Fluoride	A-T-026	N	N	0.7	7.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	103	1033	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	29	290	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	31.20	312	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.5				
Conductivity (µS/cm)	A-T-037	N	N	58				
Mass Sample (kg)				0.212				
Dry Matter (%)	A-T-044	N	N	82.7				
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation								

FINAL ANALYTICAL TEST REPORT SUPPLEMENT TO TEST REPORT 20/06635/1

Amendments: Request for project/sample information change

Envirolab Job Number: 20/06635
Issue Number: 2

Date: 09 September, 2020

Client: Clancy Consulting
Dunham Court
2 Dunham Road
Altrincham
Cheshire
UK
WA14 4NX

Project Manager: Daniel Hoyle/Sophie Harper-Pryce
Project Name: Langstone Technology Park
Project Ref: 10/1425
Order No: TBC
Date Samples Received: 06/08/20
Date Instructions Received: 12/08/20
Date Analysis Completed: 20/08/20

Prepared by:



Richard Wong
Client Manager

Approved by:



Sophie France
Client Service Manager

Envirolab Job Number: 20/06635

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06635/1	20/06635/2	20/06635/3	20/06635/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH5	WS9	WS20	WS14						
Depth to Top	4.50	0.90	3.00	3.00						
Depth To Bottom										
Date Sampled	31-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
pH (w) _A [#]	7.57	7.11	7.27	7.48				pH	0.01	A-T-031w
DOC (w) _A [#]	12.8	9.8	24.7	22.9				mg/l	0.2	A-T-032w
Arsenic (dissolved) _A [#]	2	<1	8	5				µg/l	1	A-T-025w
Boron (dissolved) _A [#]	225	51	112	78				µg/l	10	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	4	<1				µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	1.9	<0.2				µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	21	9	181	17				µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01	<0.01	<0.01				mg/l	0.01	A-T-040w
Lead (dissolved) _A [#]	<1	<1	106	<1				µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1				µg/l	0.1	A-T-025w
Nickel (dissolved) _A [#]	4	4	61	4				µg/l	1	A-T-025w
Selenium (dissolved) _A [#]	<1	2	3	<1				µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	69	2				µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	20	3	176	4				µg/l	1	A-T-025w

Envirolab Job Number: 20/06635

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06635/1	20/06635/2	20/06635/3	20/06635/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH5	WS9	WS20	WS14						
Depth to Top	4.50	0.90	3.00	3.00						
Depth To Bottom										
Date Sampled	31-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
PAH 16MS (w)										
Acenaphthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01	<0.01	0.01	<0.01				µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	0.03	0.02	<0.01				µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	0.04	0.01	<0.01				µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01	0.07	0.02	<0.01				µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	0.02	<0.01	<0.01				µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	0.02	<0.01	<0.01				µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	0.08	0.02	<0.01				µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.02	0.35	0.05	<0.01				µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	0.03	<0.01	0.01	<0.01				µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	0.02	<0.01	<0.01				µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.04	0.02	0.04	<0.01				µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.03	0.30	0.05	<0.01				µg/l	0.01	A-T-019w
Total PAH 16MS (w)_A[#]	0.12	0.95	0.23	<0.01				µg/l	0.01	A-T-019w

Envirolab Job Number: 20/06635

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06635/1	20/06635/2	20/06635/3	20/06635/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH5	WS9	WS20	WS14						
Depth to Top	4.50	0.90	3.00	3.00						
Depth To Bottom										
Date Sampled	31-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10				µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5				µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5				µg/l	5	A-T-006w
Chloroform _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Benzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10				µg/l	10	A-T-006w
Trichloroethene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1				µg/l	1	A-T-006w

Envirolab Job Number: 20/06635

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06635/1	20/06635/2	20/06635/3	20/06635/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH5	WS9	WS20	WS14						
Depth to Top	4.50	0.90	3.00	3.00						
Depth To Bottom										
Date Sampled	31-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromoform _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Styrene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w

Envirolab Job Number: 20/06635

Client Project Name: Langstone Technology Park

Client Project Ref: 10/1425

Lab Sample ID	20/06635/1	20/06635/2	20/06635/3	20/06635/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH5	WS9	WS20	WS14						
Depth to Top	4.50	0.90	3.00	3.00						
Depth To Bottom										
Date Sampled	31-Jul-20	31-Jul-20	31-Jul-20	31-Jul-20						
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
TPH CWG (w)										
Ali >C5-C6 (w) _A [#]	<1	<1	-	<1				µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	-	<1				µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	-	<5				µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	16	<5	-	6				µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	22	<5	-	19				µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	23	<5	-	12				µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	101	<5	-	33				µg/l	5	A-T-055w
Total Aliphatics (w) _A [#]	162	<5	-	70				µg/l	5	A-T-055w
Aro >C5-C7 (w) _A [#]	<1	<1	-	<1				µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	-	<1				µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	9	<5	-	5				µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	31	16	-	48				µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	17	10	-	13				µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	26	31	-	28				µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	37	21	-	26				µg/l	10	A-T-055w
Total Aromatics (w) _A	120	78	-	120				µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) (w) _A	282	78	-	190				µg/l	10	A-T-055w
BTEX - Benzene (w) _A [#]	<1	<1	-	<1				µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	-	<1				µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	-	<1				µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	-	<1				µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	-	<1				µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	-	<1				µg/l	1	A-T-022w

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/07484
Issue Number: 1

Date: 16 September, 2020

Client: Clancy Consulting
Dunham Court
2 Dunham Road
Altrincham
Cheshire
UK
WA14 4NX

Project Manager: Sophie Harper-Pryce
Project Name: Langstone Technology Park, Havant
Project Ref: 10/1425
Order No: TBC
Date Samples Received: 07/09/20
Date Instructions Received: 08/09/20
Date Analysis Completed: 15/09/20

Prepared by:



Danielle Brierley
Client Manager

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 20/07484

Client Project Name: Langstone Technology Park, Havant

Client Project Ref: 10/1425

Lab Sample ID	20/07484/1	20/07484/2	20/07484/3	20/07484/4	20/07484/5	20/07484/6	20/07484/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS3	WS9	WS14	WS20	WS29	BH5	BH6			
Depth to Top	2.00	1.50	1.00	2.50	2.90	7.00	4.50			
Depth To Bottom										
Date Sampled	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
pH (w) _A [#]	7.12	7.60	7.39	7.45	8.02	7.85	7.67	pH	0.01	A-T-031w
Arsenic (dissolved) _A [#]	1	-	-	-	<1	-	<1	µg/l	1	A-T-025w
Boron (dissolved) _A [#]	54	-	-	-	51	-	22	µg/l	10	A-T-025w
Beryllium (dissolved) _A [#]	<1	-	-	-	<1	-	<1	µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	-	-	-	<0.2	-	<0.2	µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<1	-	-	-	2	-	<1	µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	-	-	-	0.20	-	<0.01	mg/l	0.01	A-T-040w
Lead (dissolved) _A [#]	<1	-	-	-	<1	-	<1	µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	-	-	-	<0.1	-	<0.1	µg/l	0.1	A-T-025w
Nickel (dissolved) _A [#]	6	-	-	-	<1	-	<1	µg/l	1	A-T-025w
Selenium (dissolved) _A [#]	<1	-	-	-	<1	-	<1	µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	-	-	-	<1	-	<1	µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	<1	-	-	-	<1	-	3	µg/l	1	A-T-025w

Envirolab Job Number: 20/07484

Client Project Name: Langstone Technology Park, Havant

Client Project Ref: 10/1425

Lab Sample ID	20/07484/1	20/07484/2	20/07484/3	20/07484/4	20/07484/5	20/07484/6	20/07484/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS3	WS9	WS14	WS20	WS29	BH5	BH6			
Depth to Top	2.00	1.50	1.00	2.50	2.90	7.00	4.50			
Depth To Bottom										
Date Sampled	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
PAH 16MS (w)										
Acenaphthene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	-	-	-	-	-	-	<0.01	µg/l	0.01	A-T-019w

Envirolab Job Number: 20/07484

Client Project Name: Langstone Technology Park, Havant

Client Project Ref: 10/1425

Lab Sample ID	20/07484/1	20/07484/2	20/07484/3	20/07484/4	20/07484/5	20/07484/6	20/07484/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS3	WS9	WS14	WS20	WS29	BH5	BH6			
Depth to Top	2.00	1.50	1.00	2.50	2.90	7.00	4.50			
Depth To Bottom										
Date Sampled	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
SVOC (w)										
1,2,4-Trichlorobenzene _A	-	-	<1	<1	-	<1	-	µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	-	-	<3	<3	-	<3	-	µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	-	-	<1	<1	-	<1	-	µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	-	-	<1	<1	-	<1	-	µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
2,4-Dichlorophenol _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
2,4-Dimethylphenol _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
2-Chloronaphthalene _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
2-Chlorophenol _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
2-Methylnaphthalene _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
2-Methylphenol _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
2-Nitrophenol _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
3+4-Methylphenol _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
4-Nitrophenol _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Acenaphthene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Acenaphthylene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Anthracene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	-	<10	<10	<10	-	<10	<10	µg/l	10	A-T-052w
Benzo(a)anthracene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Butylbenzyl phthalate _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Benzo(b)fluoranthene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Benzo(k)fluoranthene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Benzo(a)pyrene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Benzo(ghi)perylene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w

Envirolab Job Number: 20/07484

Client Project Name: Langstone Technology Park, Havant

Client Project Ref: 10/1425

Lab Sample ID	20/07484/1	20/07484/2	20/07484/3	20/07484/4	20/07484/5	20/07484/6	20/07484/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS3	WS9	WS14	WS20	WS29	BH5	BH6			
Depth to Top	2.00	1.50	1.00	2.50	2.90	7.00	4.50			
Depth To Bottom										
Date Sampled	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Carbazole _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Chrysene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Dibenzofuran _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
n-Dibutylphthalate _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
n-Diethylphthalate _A	-	<10	<10	<10	-	<10	<10	µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Diethyl phthalate _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Dimethyl phthalate _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Dibenzo(ah)anthracene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Fluorene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Fluoranthene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Hexachlorobutadiene _A	-	-	<1	<1	-	<1	-	µg/l	1	A-T-052w
Hexachlorobenzene _A	-	<2	<2	<2	-	<2	<2	µg/l	1	A-T-052w
Pentachlorophenol (SVOC) _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Phenol _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Hexachloroethane _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Nitrobenzene _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Naphthalene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Isophorone _A	-	<1	<1	1	-	<1	<1	µg/l	1	A-T-052w
Hexachlorocyclopentadiene _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w
Phenanthrene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Pyrene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Indeno(1,2,3-cd)pyrene _A	-	<1	<1	<1	-	<1	-	µg/l	1	A-T-052w
Perylene _A	-	<1	<1	<1	-	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 20/07484

Client Project Name: Langstone Technology Park, Havant

Client Project Ref: 10/1425

Lab Sample ID	20/07484/1	20/07484/2	20/07484/3	20/07484/4	20/07484/5	20/07484/6	20/07484/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS3	WS9	WS14	WS20	WS29	BH5	BH6			
Depth to Top	2.00	1.50	1.00	2.50	2.90	7.00	4.50			
Depth To Bottom										
Date Sampled	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
VOC (w)										
Dichlorodifluoromethane _A	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Chloromethane _A	-	<10	-	-	-	-	<10	µg/l	10	A-T-006w
Vinyl Chloride _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Bromomethane _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Chloroethane _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Dichloromethane _A	-	<5	-	-	-	-	<5	µg/l	5	A-T-006w
Carbon Disulphide _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Bromochloromethane _A [#]	-	<5	-	-	-	-	<5	µg/l	5	A-T-006w
Chloroform _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	-	<2	-	-	-	-	<2	µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Benzene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Dibromomethane _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Bromodichloromethane _A [#]	-	<10	-	-	-	-	<10	µg/l	10	A-T-006w
Trichloroethene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Toluene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Dibromochloromethane _A [#]	-	<3	-	-	-	-	<3	µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Tetrachloroethene _A	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w

Envirolab Job Number: 20/07484

Client Project Name: Langstone Technology Park, Havant

Client Project Ref: 10/1425

Lab Sample ID	20/07484/1	20/07484/2	20/07484/3	20/07484/4	20/07484/5	20/07484/6	20/07484/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS3	WS9	WS14	WS20	WS29	BH5	BH6			
Depth to Top	2.00	1.50	1.00	2.50	2.90	7.00	4.50			
Depth To Bottom										
Date Sampled	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1,1,1,2-Tetrachloroethane _A	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Chlorobenzene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Ethylbenzene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
m & p Xylene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Bromoform _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Styrene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
o-Xylene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Isopropylbenzene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
Bromobenzene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
n-propylbenzene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	-	<2	-	-	-	-	<2	µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
n-butylbenzene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	-	<2	-	-	-	-	<2	µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	-	<3	-	-	-	-	<3	µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	-	<3	-	-	-	-	<3	µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	-	<1	-	-	-	-	<1	µg/l	1	A-T-006w

Envirolab Job Number: 20/07484

Client Project Name: Langstone Technology Park, Havant

Client Project Ref: 10/1425

Lab Sample ID	20/07484/1	20/07484/2	20/07484/3	20/07484/4	20/07484/5	20/07484/6	20/07484/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS3	WS9	WS14	WS20	WS29	BH5	BH6			
Depth to Top	2.00	1.50	1.00	2.50	2.90	7.00	4.50			
Depth To Bottom										
Date Sampled	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
TPH CWG (w)										
Ali >C5-C6 (w) _A [#]	-	<1	-	<1	-	-	<1	µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	-	<1	-	<1	-	-	<1	µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	-	<5	-	<5	-	-	<5	µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	-	<5	-	<5	-	-	<5	µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	-	<5	-	<5	-	-	<5	µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	-	<5	-	<5	-	-	<5	µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	-	<5	-	19	-	-	<5	µg/l	5	A-T-055w
Total Aliphatics (w) _A [#]	-	<5	-	19	-	-	<5	µg/l	5	A-T-055w
Aro >C5-C7 (w) _A [#]	-	<1	-	<1	-	-	<1	µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	-	<1	-	<1	-	-	<1	µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	-	<5	-	<5	-	-	<5	µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	-	<5	-	<5	-	-	<5	µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	-	<5	-	14	-	-	<5	µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	-	6	-	26	-	-	<5	µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	-	<10	-	15	-	-	<10	µg/l	10	A-T-055w
Total Aromatics (w) _A	-	<10	-	55	-	-	<10	µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) (w) _A	-	<10	-	74	-	-	<10	µg/l	10	A-T-055w
BTEX - Benzene (w) _A [#]	-	<1	-	<1	-	-	<1	µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	-	<1	-	<1	-	-	<1	µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	-	<1	-	<1	-	-	<1	µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	-	<1	-	<1	-	-	<1	µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	-	<1	-	<1	-	-	<1	µg/l	1	A-T-022w
MTBE (w) _A [#]	-	<1	-	<1	-	-	<1	µg/l	1	A-T-022w

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

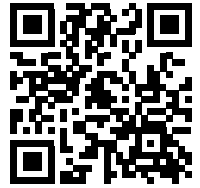
Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

APPENDIX IV
WASTE ASSESSMENT

Waste Classification Report



9KURL-YLADL-HB7YB

Job name

10-1425 Langstone Business Park

Description/Comments

Project

Site

Related Documents

#	Name	Description
None		

Waste Stream Template

Example waste stream template for contaminated soils

Classified by

Name:	Company:	HazWasteOnline™ Training Record:	
Robert Philip	Clancy Consulting Limited	Course	Date
Date:		Hazardous Waste Classification	-
09 Sep 2020 14:18 GMT		Advanced Hazardous Waste Classification	-
Telephone:			

Report

Created by: Robert Philip
Created date: 09 Sep 2020 14:18 GMT

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	WS9	0.35	Non Hazardous		3
2	WS9[2]	2.30	Non Hazardous		6
3	WS10	0.90	Non Hazardous		8
4	WS11	0.90	Non Hazardous		10
5	WS14	0.90	Non Hazardous		12
6	WS14[2]	2.40	Non Hazardous		14
7	WS16	0.95	Non Hazardous		17
8	WS18	2.30	Non Hazardous		19
9	WS20	0.40	Unknown. Chemistry data not provided.		21
10	WS20[2]	0.90	Non Hazardous		22
11	WS20[3]	1.90	Non Hazardous		24
12	WS21	1.30	Hazardous	HP 3(i), HP 7, HP 11	27

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
13	WS21[2]	2.70	Non Hazardous		29
14	WS23	1.00	Non Hazardous		32
15	WS24	1.30	Non Hazardous		34
16	WS24[2]	2.30	Non Hazardous		36
17	WS25	0.40	Unknown. Chemistry data not provided.		38
18	WS25[2]	1.70	Non Hazardous		39
19	WS26	1.50	Non Hazardous		41
20	WS26[2]	2.30	Non Hazardous		43
21	WS27	0.80	Non Hazardous		46
22	WS28	2.30	Non Hazardous		48
23	WS29	0.80	Non Hazardous		51
24	WS29[2]	2.40	Non Hazardous		53
25	WS30	1.00	Hazardous	HP 3(i), HP 7, HP 11	55
26	WS31	2.50	Hazardous	HP 3(i), HP 7, HP 11	58
27	WS31[2]	2.70	Hazardous	HP 3(i), HP 7, HP 11	61
28	WS32	2.60	Hazardous	HP 3(i), HP 7, HP 11	64
29	WS32[2]	2.40	Non Hazardous		67
30	HTP1	0.50	Non Hazardous		69
31	HTP3	0.40	Non Hazardous		71
32	BH1	0.60	Non Hazardous		73
33	SA1	0.60	Non Hazardous		74
34	WS1	1.60	Hazardous	HP 3(i), HP 7, HP 11	76
35	WS2	1.10	Non Hazardous		79
36	WS2[2]	2.40	Non Hazardous		82
37	WS3	0.25	Non Hazardous		84
38	WS4	1.80	Hazardous	HP 3(i), HP 7, HP 11	86
39	WS5	2.60	Non Hazardous		89
40	WS5[2]	3.90	Non Hazardous		92
41	WS6	0.80	Non Hazardous		94
42	WS7	1.40	Non Hazardous		96
43	SA2	0.70	Non Hazardous		98
44	BH3	1.00	Non Hazardous		100
45	BH4	1.10	Non Hazardous		102
46	BH4[2]	1.10	Unknown. Chemistry data not provided.		104

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	105
Appendix B: Rationale for selection of metal species	106
Appendix C: Version	107

Classification of sample: WS9

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

Sample details

Sample Name:	WS9	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.35 m	Entry:		17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	1 mg/kg	2.775	2.775	mg/kg	0.000278 %		
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.8 mg/kg	1.142	0.914	mg/kg	0.0000914 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	17 mg/kg	1.126	19.14	mg/kg	0.00191 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	14 mg/kg	1.56	21.837	mg/kg	0.0014 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	18 mg/kg	2.976	53.573	mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	63 mg/kg	2.774	174.771	mg/kg	0.0175 %		
12	TPH (C6 to C40) petroleum group		TPH		33 mg/kg		33	mg/kg	0.0033 %		
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
14	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
15	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	pH				7.52	pH		7.52	pH	7.52 pH		
			PH									
19	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
20	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
21	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
22	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
23	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
24	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
25	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
26	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
27	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
28	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
29	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
30	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
31	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
32	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
33	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
34	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
Total:										0.0308 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Unlikely to be flammable at concentrations of less than 0.1% by weight.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0033%)

Classification of sample: WS9[2]

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

Sample details

Sample Name:	WS9[2]	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	2.30 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	TPH (C6 to C40) petroleum group				2 mg/kg		2	mg/kg	0.0002 %		
			TPH								
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
3	benzene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
4	toluene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	ethylbenzene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
6	xylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
7	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
8	acenaphthylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8								
9	acenaphthene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9								
10	fluorene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7								
11	phenanthrene				0.05 mg/kg		0.05	mg/kg	0.000005 %		
		201-581-5	85-01-8								
12	anthracene				<0.02 mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7								
13	fluoranthene				0.14 mg/kg		0.14	mg/kg	0.000014 %		
		205-912-4	206-44-0								
14	pyrene				0.11 mg/kg		0.11	mg/kg	0.000011 %		
		204-927-3	129-00-0								
15	benzo[a]anthracene				0.1 mg/kg		0.1	mg/kg	0.00001 %		
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	chrysene				0.12 mg/kg		0.12 mg/kg	0.000012 %		
	601-048-00-0	205-923-4	218-01-9							
17	benzo[b]fluoranthene				0.15 mg/kg		0.15 mg/kg	0.000015 %		
	601-034-00-4	205-911-9	205-99-2							
18	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	benzo[a]pyrene; benzo[def]chrysene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-032-00-3	200-028-5	50-32-8							
20	indeno[123-cd]pyrene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		205-893-2	193-39-5							
21	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
22	benzo[ghi]perylene				0.06 mg/kg		0.06 mg/kg	0.000006 %		
		205-883-8	191-24-2							
Total:								0.00031 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Unlikely to be flammable at concentrations of less than 0.1% by weight.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0002%)

Classification of sample: WS10

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

Sample details

Sample Name:	WS10	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.90 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	TPH (C6 to C40) petroleum group				31 mg/kg		31	mg/kg	0.0031 %		
			TPH								
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
3	benzene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
4	toluene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	ethylbenzene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
6	xylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
7	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
8	acenaphthylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8								
9	acenaphthene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9								
10	fluorene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7								
11	phenanthrene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8								
12	anthracene				<0.02 mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7								
13	fluoranthene				<0.08 mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0								
14	pyrene				<0.07 mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0								
15	benzo[a]anthracene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
17	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
18	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
20	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5							
21	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
22	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.00317 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Unlikely to be flammable at concentrations of less than 0.1% by weight.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0031%)

Classification of sample: WS11

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

Sample details

Sample Name:	LoW Code:
WS11	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
2	acenaphthylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8								
3	acenaphthene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9								
4	fluorene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7								
5	phenanthrene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8								
6	anthracene				<0.02 mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7								
7	fluoranthene				<0.08 mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0								
8	pyrene				<0.07 mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0								
9	benzo[a]anthracene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3								
10	chrysene				<0.06 mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9								
11	benzo[b]fluoranthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2								
12	benzo[k]fluoranthene				<0.07 mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9								
13	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8								
14	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5								
15	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3								
16	benzo[ghi]perylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2								
Total:									0.00006 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: WS14

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

Sample details

Sample Name:	LoW Code:
WS14	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	TPH (C6 to C40) petroleum group				13 mg/kg		13	mg/kg	0.0013 %		
			TPH								
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
3	benzene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
4	toluene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	ethylbenzene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
6	xylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
7	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
8	acenaphthylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8								
9	acenaphthene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9								
10	fluorene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7								
11	phenanthrene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8								
12	anthracene				<0.02 mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7								
13	fluoranthene				<0.08 mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0								
14	pyrene				<0.07 mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0								
15	benzo[a]anthracene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
17	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
18	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
20	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5							
21	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
22	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.00137 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Unlikely to be flammable at concentrations of less than 0.1% by weight.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0013%)

Classification of sample: WS14[2]

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

Sample details

Sample Name:	LoW Code:
WS14[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.40 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	6 mg/kg	1.126	6.755	mg/kg	0.000676 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	6 mg/kg	1.56	9.359	mg/kg	0.0006 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	2.15 mg/kg	1.353	2.91	mg/kg	0.000291 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	11 mg/kg	2.976	32.739	mg/kg	0.00327 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			1 mg/kg	2.554	2.554	mg/kg	0.000255 %		
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	20 mg/kg	2.774	55.483	mg/kg	0.00555 %		
12	TPH (C6 to C40) petroleum group		TPH		2 mg/kg		2	mg/kg	0.0002 %		
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
14	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
15	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	pH				7.88 pH		7.88 pH	7.88 pH			
			PH								
19	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
21	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
22	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
23	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
24	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
25	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-912-4	206-44-0								
26	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
		204-927-3	129-00-0								
27	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
Total:									0.0118 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Unlikely to be flammable at concentrations of less than 0.1% by weight.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0002%)

Classification of sample: WS16

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

Sample details

Sample Name:	LoW Code:
WS16	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.95 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	TPH (C6 to C40) petroleum group				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			TPH							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
7	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
8	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
9	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							
10	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
11	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
12	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
13	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0							
14	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0							
15	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3							

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
16		chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9								
17		benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2								
18		benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9								
19		benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8								
20	●	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5								
21		dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3								
22	●	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2								
Total:								0.00016 %			

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: WS18

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

Sample details

Sample Name:	WS18	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	2.30 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				1 mg/kg	1.32	1.32	mg/kg	0.000132 %		
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				4 mg/kg	1.126	4.504	mg/kg	0.00045 %		
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	5 mg/kg	1.56	7.799	mg/kg	0.0005 %		
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				2.82 mg/kg	1.353	3.817	mg/kg	0.000382 %		
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				5 mg/kg	2.976	14.881	mg/kg	0.00149 %		
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
11	zinc { zinc chromate }				14 mg/kg	2.774	38.838	mg/kg	0.00388 %		
	024-007-00-3	236-878-9	13530-65-9								
12	pH				8.48 pH		8.48	pH	8.48 pH		
13	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
14	acenaphthylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8								
15	acenaphthene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	fluorene	201-695-5	86-73-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
17	phenanthrene	201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
18	anthracene	204-371-1	120-12-7		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
19	fluoranthene	205-912-4	206-44-0		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
20	pyrene	204-927-3	129-00-0		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
21	benzo[a]anthracene	601-033-00-9	200-280-6		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
22	chrysene	601-048-00-0	205-923-4		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
23	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
25	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
26	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
27	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
28	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
Total:									0.00787 %		

Key

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

Classification of sample: WS20



Unknown. Chemistry data not provided.

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

Sample details

Sample Name:	LoW Code:	
WS20	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)
0.40 m		

Hazard properties

None identified

Determinands

Moisture content: **0% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
Total:								0%		

Key

User supplied data

Classification of sample: WS20[2]

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

Sample details

Sample Name:	LoW Code:
WS20[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				2 mg/kg	1.32	2.641 mg/kg	0.000264 %			
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				0.6 mg/kg	2.775	1.665 mg/kg	0.000167 %			
	004-003-00-8	215-133-1	1304-56-9								
3	boron { dicobalt trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.8 mg/kg	1.142	0.914 mg/kg	0.0000914 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				19 mg/kg	1.126	21.392 mg/kg	0.00214 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	43 mg/kg	1.56	67.072 mg/kg	0.0043 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				13 mg/kg	2.976	38.691 mg/kg	0.00387 %			
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
11	zinc { zinc chromate }				54 mg/kg	2.774	149.804 mg/kg	0.015 %			
	024-007-00-3	236-878-9	13530-65-9								
12	TPH (C6 to C40) petroleum group		TPH		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	pH				7.71 pH		7.71 pH	7.71 pH			
			PH								
19	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
21	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
22	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
23	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
24	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
25	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-912-4	206-44-0								
26	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
		204-927-3	129-00-0								
27	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
Total:									0.0268 %		

Key

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

Classification of sample: WS20[3]

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

Sample details

Sample Name:	LoW Code:
WS20[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.90 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				4 mg/kg	1.126	4.504	mg/kg	0.00045 %		
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	2 mg/kg	1.56	3.12	mg/kg	0.0002 %		
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				5.03 mg/kg	1.353	6.808	mg/kg	0.000681 %		
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				4 mg/kg	2.976	11.905	mg/kg	0.00119 %		
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
11	zinc { zinc chromate }				12 mg/kg	2.774	33.29	mg/kg	0.00333 %		
	024-007-00-3	236-878-9	13530-65-9								
12	TPH (C6 to C40) petroleum group		TPH		32 mg/kg		32	mg/kg	0.0032 %		
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	pH				8.72 pH		8.72 pH	8.72 pH			
			PH								
19	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
21	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
22	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
23	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
24	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
25	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-912-4	206-44-0								
26	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
		204-927-3	129-00-0								
27	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
Total:									0.0102 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Unlikely to be flammable at concentrations of less than 0.1% by weight.

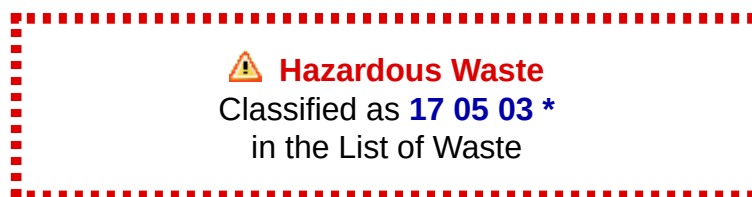
Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0032%)

Classification of sample: WS21



Sample details

Sample Name:	LoW Code:	
WS21	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
1.30 m		

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.: 0.11%)

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.: 0.11%)

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.: 0.11%)

Determinands

Moisture content: **0% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	TPH (C6 to C40) petroleum group				1100 mg/kg		1100 mg/kg	0.11 %		
			TPH							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
4	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
7	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
8	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
9	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							
10	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
11	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
12	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
13	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0							
14	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0							
15	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
16	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
17	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
18	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
20	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5							
21	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
22	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.11 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: WS21[2]

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

Sample details

Sample Name:	WS21[2]	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	2.70 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				2 mg/kg	1.32	2.641 mg/kg	0.000264 %			
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				0.5 mg/kg	2.775	1.388 mg/kg	0.000139 %			
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				9 mg/kg	1.126	10.133 mg/kg	0.00101 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	6 mg/kg	1.56	9.359 mg/kg	0.0006 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				2.7 mg/kg	1.353	3.654 mg/kg	0.000365 %			
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				39 mg/kg	2.976	116.074 mg/kg	0.0116 %			
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
11	zinc { zinc chromate }				19 mg/kg	2.774	52.709 mg/kg	0.00527 %			
	024-007-00-3	236-878-9	13530-65-9								
12	TPH (C6 to C40) petroleum group		TPH		59 mg/kg		59 mg/kg	0.0059 %			
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	pH				8.71 pH		8.71 pH	8.71 pH			
			PH								
19	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				0.03 mg/kg		0.03 mg/kg	0.000003 %			
		205-917-1	208-96-8								
21	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
22	fluorene				0.02 mg/kg		0.02 mg/kg	0.000002 %			
		201-695-5	86-73-7								
23	phenanthrene				0.04 mg/kg		0.04 mg/kg	0.000004 %			
		201-581-5	85-01-8								
24	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
25	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-912-4	206-44-0								
26	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
		204-927-3	129-00-0								
27	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
Total:									0.0261 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Unlikely to be flammable at concentrations of less than 0.1% by weight.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0059%)

Classification of sample: WS23

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

Sample details

Sample Name:	WS23	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	1.00 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	TPH (C6 to C40) petroleum group				<1 mg/kg		<1	mg/kg	<0.0001 %		<LOD
			TPH								
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
3	benzene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
4	toluene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	ethylbenzene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
6	xylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
7	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
8	acenaphthylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8								
9	acenaphthene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9								
10	fluorene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7								
11	phenanthrene				0.08 mg/kg		0.08	mg/kg	0.000008 %		
		201-581-5	85-01-8								
12	anthracene				0.03 mg/kg		0.03	mg/kg	0.000003 %		
		204-371-1	120-12-7								
13	fluoranthene				0.33 mg/kg		0.33	mg/kg	0.000033 %		
		205-912-4	206-44-0								
14	pyrene				0.27 mg/kg		0.27	mg/kg	0.000027 %		
		204-927-3	129-00-0								
15	benzo[a]anthracene				0.29 mg/kg		0.29	mg/kg	0.000029 %		
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	chrysene				0.38 mg/kg		0.38 mg/kg	0.000038 %		
	601-048-00-0	205-923-4	218-01-9							
17	benzo[b]fluoranthene				0.56 mg/kg		0.56 mg/kg	0.000056 %		
	601-034-00-4	205-911-9	205-99-2							
18	benzo[k]fluoranthene				0.17 mg/kg		0.17 mg/kg	0.000017 %		
	601-036-00-5	205-916-6	207-08-9							
19	benzo[a]pyrene; benzo[def]chrysene				0.35 mg/kg		0.35 mg/kg	0.000035 %		
	601-032-00-3	200-028-5	50-32-8							
20	indeno[123-cd]pyrene				0.29 mg/kg		0.29 mg/kg	0.000029 %		
		205-893-2	193-39-5							
21	dibenz[a,h]anthracene				0.07 mg/kg		0.07 mg/kg	0.000007 %		
	601-041-00-2	200-181-8	53-70-3							
22	benzo[ghi]perylene				0.23 mg/kg		0.23 mg/kg	0.000023 %		
		205-883-8	191-24-2							
Total:								0.00041 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: WS24

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

Sample details

Sample Name:	WS24	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	1.30 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	1 mg/kg	1.32	1.32	mg/kg	0.000132 %		
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.8 mg/kg	2.775	2.22	mg/kg	0.000222 %		
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.7 mg/kg	1.142	0.8	mg/kg	0.00008 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	10 mg/kg	1.126	11.259	mg/kg	0.00113 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	16 mg/kg	1.56	24.957	mg/kg	0.0016 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	20 mg/kg	2.976	59.525	mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	46 mg/kg	2.774	127.611	mg/kg	0.0128 %		
12	TPH (C6 to C40) petroleum group		TPH		<1 mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
14	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
15	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	pH				8.06 pH		8.06 pH	8.06 pH			
			PH								
19	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
21	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
22	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
23	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
24	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
25	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-912-4	206-44-0								
26	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
		204-927-3	129-00-0								
27	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
Total:									0.0228 %		

Key

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

Classification of sample: WS24[2]

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

Sample details

Sample Name:	LoW Code:
WS24[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.30 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %			<LOD
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				0.6 mg/kg	2.775	1.665 mg/kg	0.000167 %			
	004-003-00-8	215-133-1	1304-56-9								
3	boron { dicobalt trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				3 mg/kg	1.126	3.378 mg/kg	0.000338 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	5 mg/kg	1.56	7.799 mg/kg	0.0005 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				3.19 mg/kg	1.353	4.318 mg/kg	0.000432 %			
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				7 mg/kg	2.976	20.834 mg/kg	0.00208 %			
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
11	zinc { zinc chromate }				21 mg/kg	2.774	58.257 mg/kg	0.00583 %			
	024-007-00-3	236-878-9	13530-65-9								
12	pH				8.85 pH		8.85 pH	8.85 pH			
13	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
14	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
15	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
17	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
18	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
19	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0							
20	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0							
21	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
26	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
28	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.0104 %		

Key

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

Classification of sample: WS25



Unknown. Chemistry data not provided.

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

Sample details

Sample Name:	LoW Code:
WS25	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.40 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: **0% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
Total:							0%			

Key

User supplied data

Classification of sample: WS25[2]

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

Sample details

Sample Name:	WS25[2]	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	1.70 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
1		arsenic { arsenic trioxide }				<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3										
2		beryllium { beryllium oxide }				0.7	mg/kg	2.775	1.943	mg/kg	0.000194 %		
	004-003-00-8	215-133-1	1304-56-9										
3		boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2										
4		cadmium { cadmium oxide }				0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %		
	048-002-00-0	215-146-2	1306-19-0										
5		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0										
6		copper { dicopper oxide; copper (I) oxide }				8	mg/kg	1.126	9.007	mg/kg	0.000901 %		
	029-002-00-X	215-270-7	1317-39-1										
7		lead { lead chromate }			1	9	mg/kg	1.56	14.038	mg/kg	0.0009 %		
	082-004-00-2	231-846-0	7758-97-6										
8		mercury { mercury dichloride }				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7										
9		nickel { nickel chromate }				19	mg/kg	2.976	56.549	mg/kg	0.00565 %		
	028-035-00-7	238-766-5	14721-18-7										
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8												
11		zinc { zinc chromate }				34	mg/kg	2.774	94.321	mg/kg	0.00943 %		
	024-007-00-3	236-878-9	13530-65-9										
12		TPH (C6 to C40) petroleum group				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			TPH										
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	pH				7.66 pH		7.66 pH	7.66 pH			
			PH								
19	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
21	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
22	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
23	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
24	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
25	fluoranthene				0.18 mg/kg		0.18 mg/kg	0.000018 %			
		205-912-4	206-44-0								
26	pyrene				0.16 mg/kg		0.16 mg/kg	0.000016 %			
		204-927-3	129-00-0								
27	benzo[a]anthracene				0.11 mg/kg		0.11 mg/kg	0.000011 %			
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				0.12 mg/kg		0.12 mg/kg	0.000012 %			
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				0.19 mg/kg		0.19 mg/kg	0.000019 %			
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				0.12 mg/kg		0.12 mg/kg	0.000012 %			
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				0.11 mg/kg		0.11 mg/kg	0.000011 %			
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				0.08 mg/kg		0.08 mg/kg	0.000008 %			
		205-883-8	191-24-2								
Total:									0.0183 %		

Key

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

Classification of sample: WS26

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

Sample details

Sample Name:	LoW Code:
WS26	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.50 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	TPH (C6 to C40) petroleum group				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			TPH							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
7	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
8	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
9	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							
10	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
11	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
12	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
13	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0							
14	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0							
15	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3							

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
16		chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9								
17		benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2								
18		benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9								
19		benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8								
20	■	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5								
21		dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3								
22	■	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2								
Total:									0.00016 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: WS26[2]

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

Sample details

Sample Name:	WS26[2]	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	2.30 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				5 mg/kg	1.126	5.629	mg/kg	0.000563 %		
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	3 mg/kg	1.56	4.679	mg/kg	0.0003 %		
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				0.69 mg/kg	1.353	0.934	mg/kg	0.0000934 %		
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				60 mg/kg	2.976	178.576	mg/kg	0.0179 %		
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
11	zinc { zinc chromate }				6 mg/kg	2.774	16.645	mg/kg	0.00166 %		
	024-007-00-3	236-878-9	13530-65-9								
12	TPH (C6 to C40) petroleum group		TPH		26 mg/kg		26	mg/kg	0.0026 %		
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	pH				8.91	pH		8.91	pH	8.91 pH		
			PH									
19	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
20	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
21	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
22	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
23	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
24	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
25	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
26	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
27	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
28	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
29	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
30	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
31	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
32	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
33	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
34	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
Total:										0.0242 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Unlikely to be flammable at concentrations of less than 0.1% by weight.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0026%)

Classification of sample: WS27

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

Sample details

Sample Name:	LoW Code:
WS27	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.80 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	TPH (C6 to C40) petroleum group				<1 mg/kg		<1	mg/kg	<0.0001 %		<LOD
			TPH								
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
3	benzene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
4	toluene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
5	ethylbenzene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
6	xylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
7	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
8	acenaphthylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8								
9	acenaphthene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9								
10	fluorene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7								
11	phenanthrene				0.06 mg/kg		0.06	mg/kg	0.000006 %		
		201-581-5	85-01-8								
12	anthracene				<0.02 mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7								
13	fluoranthene				0.14 mg/kg		0.14	mg/kg	0.000014 %		
		205-912-4	206-44-0								
14	pyrene				0.14 mg/kg		0.14	mg/kg	0.000014 %		
		204-927-3	129-00-0								
15	benzo[a]anthracene				0.11 mg/kg		0.11	mg/kg	0.000011 %		
	601-033-00-9	200-280-6	56-55-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	chrysene				0.15 mg/kg		0.15 mg/kg	0.000015 %		
	601-048-00-0	205-923-4	218-01-9							
17	benzo[b]fluoranthene				0.21 mg/kg		0.21 mg/kg	0.000021 %		
	601-034-00-4	205-911-9	205-99-2							
18	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	benzo[a]pyrene; benzo[def]chrysene				0.15 mg/kg		0.15 mg/kg	0.000015 %		
	601-032-00-3	200-028-5	50-32-8							
20	indeno[123-cd]pyrene				0.16 mg/kg		0.16 mg/kg	0.000016 %		
		205-893-2	193-39-5							
21	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
22	benzo[ghi]perylene				0.14 mg/kg		0.14 mg/kg	0.000014 %		
		205-883-8	191-24-2							
Total:								0.00025 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: WS28

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

Sample details

Sample Name:	WS28	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	2.30 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	3 mg/kg	1.32	3.961 mg/kg	0.000396 %			
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %			<LOD
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %			
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	7 mg/kg	1.126	7.881 mg/kg	0.000788 %			
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	5 mg/kg	1.56	7.799 mg/kg	0.0005 %			
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	2.68 mg/kg	1.353	3.627 mg/kg	0.000363 %			
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	20 mg/kg	2.976	59.525 mg/kg	0.00595 %			
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	18 mg/kg	2.774	49.935 mg/kg	0.00499 %			
12	TPH (C6 to C40) petroleum group		TPH		13 mg/kg		13 mg/kg	0.0013 %			
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
14	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
15	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	pH				8.85 pH		8.85 pH	8.85 pH			
			PH								
19	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
21	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
22	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
23	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
24	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
25	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-912-4	206-44-0								
26	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
		204-927-3	129-00-0								
27	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
Total:									0.0153 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Unlikely to be flammable at concentrations of less than 0.1% by weight.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0013%)

Classification of sample: WS29

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

Sample details

Sample Name:	LoW Code:
WS29	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.80 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	TPH (C6 to C40) petroleum group				1 mg/kg		1 mg/kg	0.0001 %		
			TPH							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
7	pH				7.89 pH		7.89 pH	7.89 pH		
			PH							
8	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
9	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
10	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							
11	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
12	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
13	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
14	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0							
15	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0							

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
16		benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		601-033-00-9	200-280-6	56-55-3							
17		chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
		601-048-00-0	205-923-4	218-01-9							
18		benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2							
19		benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
		601-036-00-5	205-916-6	207-08-9							
20		benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		601-032-00-3	200-028-5	50-32-8							
21	■	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5							
22		dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3							
23	■	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2							
Total:									0.00016 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Unlikely to be flammable at concentrations of less than 0.1% by weight.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0001%)

Classification of sample: WS29[2]

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

Sample details

Sample Name:	LoW Code:
WS29[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.40 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	TPH (C6 to C40) petroleum group				4 mg/kg		4 mg/kg	0.0004 %		
			TPH							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
7	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
8	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
9	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							
10	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
11	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
12	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
13	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0							
14	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0							
15	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
17	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
18	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
20	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5							
21	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
22	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.00046 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Unlikely to be flammable at concentrations of less than 0.1% by weight.

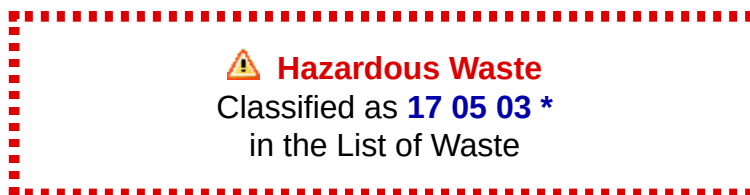
Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0004%)

Classification of sample: WS30



Sample details

Sample Name:	LoW Code:	
WS30	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
1.00 m		

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.: 0.166%)

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.: 0.166%)

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.: 0.166%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				61 mg/kg	1.32	80.54 mg/kg		0.00805 %		
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				0.8 mg/kg	2.775	2.22 mg/kg		0.000222 %		
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg		<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
4	cadmium { cadmium oxide }				1.6	mg/kg	1.142	1.828	mg/kg	0.000183 %		
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	copper { dicopper oxide; copper (I) oxide }				11	mg/kg	1.126	12.385	mg/kg	0.00124 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	13	mg/kg	1.56	20.278	mg/kg	0.0013 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				20	mg/kg	2.976	59.525	mg/kg	0.00595 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
11	zinc { zinc chromate }				41	mg/kg	2.774	113.74	mg/kg	0.0114 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group		TPH		1660	mg/kg		1660	mg/kg	0.166 %		
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	pH		PH		8.07	pH		8.07	pH	8.07 pH		
19	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
20	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
21	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
22	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
23	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
24	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
25	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
26	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
27	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
28	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
29	benzo[b]fluoranthene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
	601-034-00-4	205-911-9	205-99-2									
30	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number								
31		benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
		601-032-00-3	200-028-5	50-32-8								
32	■	indeno[123-cd]pyrene				0.04 mg/kg		0.04 mg/kg	0.000004 %			
			205-893-2	193-39-5								
33		dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
		601-041-00-2	200-181-8	53-70-3								
34	■	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			205-883-8	191-24-2								
Total:										0.195 %		

Key

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

Classification of sample: WS31

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

Sample details

Sample Name:	LoW Code:
WS31	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
2.50 m	

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.: 0.11%)

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.: 0.11%)

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.: 0.11%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	 arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
2	 beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
3	 boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD

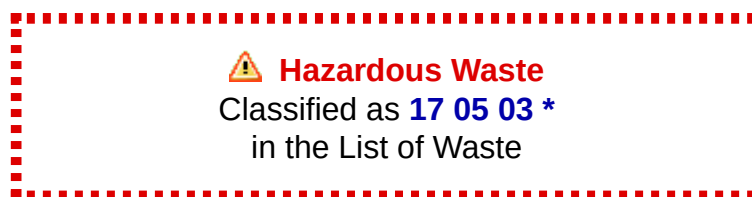
#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
4	cadmium { cadmium oxide }			1	<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }			1	<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	copper { dicopper oxide; copper (I) oxide }			1	7	mg/kg	1.126	7.881	mg/kg	0.000788 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	8	mg/kg	1.56	12.479	mg/kg	0.0008 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }			1	0.22	mg/kg	1.353	0.298	mg/kg	0.0000298 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }			1	11	mg/kg	2.976	32.739	mg/kg	0.00327 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }			1	<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
11	zinc { zinc chromate }			1	30	mg/kg	2.774	83.224	mg/kg	0.00832 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group			1	1100	mg/kg		1100	mg/kg	0.11 %		
			TPH									
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane			1	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene			1	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene			1	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene			1	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene			1	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	pH			1	8.2	pH		8.2	pH	8.2 pH		
			PH									
19	naphthalene			1	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
20	acenaphthylene			1	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
21	acenaphthene			1	0.13	mg/kg		0.13	mg/kg	0.000013 %		
		201-469-6	83-32-9									
22	fluorene			1	0.27	mg/kg		0.27	mg/kg	0.000027 %		
		201-695-5	86-73-7									
23	phenanthrene			1	0.66	mg/kg		0.66	mg/kg	0.000066 %		
		201-581-5	85-01-8									
24	anthracene			1	0.11	mg/kg		0.11	mg/kg	0.000011 %		
		204-371-1	120-12-7									
25	fluoranthene			1	0.28	mg/kg		0.28	mg/kg	0.000028 %		
		205-912-4	206-44-0									
26	pyrene			1	0.27	mg/kg		0.27	mg/kg	0.000027 %		
		204-927-3	129-00-0									
27	benzo[a]anthracene			1	0.07	mg/kg		0.07	mg/kg	0.000007 %		
	601-033-00-9	200-280-6	56-55-3									
28	chrysene			1	0.09	mg/kg		0.09	mg/kg	0.000009 %		
	601-048-00-0	205-923-4	218-01-9									
29	benzo[b]fluoranthene			1	0.08	mg/kg		0.08	mg/kg	0.000008 %		
	601-034-00-4	205-911-9	205-99-2									
30	benzo[k]fluoranthene			1	<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
31	benzo[a]pyrene; benzo[def]chrysene				0.05 mg/kg		0.05 mg/kg	0.000005 %		
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				0.03 mg/kg		0.03 mg/kg	0.000003 %		
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.125 %		

Key

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

Classification of sample: WS31[2]



Sample details

Sample Name:	LoW Code:	
WS31[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
2.70 m		

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.: 0.107%)

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.: 0.107%)

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.: 0.107%)

Determinands

Moisture content: **0% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
4	cadmium { cadmium oxide }				<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	copper { dicopper oxide; copper (I) oxide }				4	mg/kg	1.126	4.504	mg/kg	0.00045 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	4	mg/kg	1.56	6.239	mg/kg	0.0004 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				3.69	mg/kg	1.353	4.994	mg/kg	0.000499 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				12	mg/kg	2.976	35.715	mg/kg	0.00357 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
11	zinc { zinc chromate }				13	mg/kg	2.774	36.064	mg/kg	0.00361 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group		TPH		1070	mg/kg		1070	mg/kg	0.107 %		
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	pH		PH		8.86	pH		8.86	pH	8.86 pH		
19	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
20	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
21	acenaphthene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		201-469-6	83-32-9									
22	fluorene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
		201-695-5	86-73-7									
23	phenanthrene				1.34	mg/kg		1.34	mg/kg	0.000134 %		
		201-581-5	85-01-8									
24	anthracene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
		204-371-1	120-12-7									
25	fluoranthene				0.58	mg/kg		0.58	mg/kg	0.000058 %		
		205-912-4	206-44-0									
26	pyrene				0.48	mg/kg		0.48	mg/kg	0.000048 %		
		204-927-3	129-00-0									
27	benzo[a]anthracene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
	601-033-00-9	200-280-6	56-55-3									
28	chrysene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
	601-048-00-0	205-923-4	218-01-9									
29	benzo[b]fluoranthene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
	601-034-00-4	205-911-9	205-99-2									
30	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number								
31		benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
		601-032-00-3	200-028-5	50-32-8								
32	■	indeno[123-cd]pyrene				0.07 mg/kg		0.07 mg/kg	0.000007 %			
			205-893-2	193-39-5								
33		dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
		601-041-00-2	200-181-8	53-70-3								
34	■	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			205-883-8	191-24-2								
Total:									0.117 %			

Key

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

Classification of sample: WS32

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

Sample details

Sample Name:	LoW Code:
WS32	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
2.60 m	

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.: 0.523%)

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.: 0.523%)

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.: 0.523%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	 arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
2	 beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
3	 boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	1.2 mg/kg	3.22	3.864	mg/kg	0.000386 %		

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
4	cadmium { cadmium oxide }				<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	copper { dicopper oxide; copper (I) oxide }				5	mg/kg	1.126	5.629	mg/kg	0.000563 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	3	mg/kg	1.56	4.679	mg/kg	0.0003 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				1.83	mg/kg	1.353	2.477	mg/kg	0.000248 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				36	mg/kg	2.976	107.146	mg/kg	0.0107 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
11	zinc { zinc chromate }				9	mg/kg	2.774	24.967	mg/kg	0.0025 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				5230	mg/kg		5230	mg/kg	0.523 %		
			TPH									
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	pH				8.88	pH		8.88	pH	8.88 pH		
			PH									
19	naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
	601-052-00-2	202-049-5	91-20-3									
20	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
21	acenaphthene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
		201-469-6	83-32-9									
22	fluorene				0.47	mg/kg		0.47	mg/kg	0.000047 %		
		201-695-5	86-73-7									
23	phenanthrene				1.26	mg/kg		1.26	mg/kg	0.000126 %		
		201-581-5	85-01-8									
24	anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		204-371-1	120-12-7									
25	fluoranthene				0.55	mg/kg		0.55	mg/kg	0.000055 %		
		205-912-4	206-44-0									
26	pyrene				0.55	mg/kg		0.55	mg/kg	0.000055 %		
		204-927-3	129-00-0									
27	benzo[a]anthracene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
	601-033-00-9	200-280-6	56-55-3									
28	chrysene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
	601-048-00-0	205-923-4	218-01-9									
29	benzo[b]fluoranthene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
	601-034-00-4	205-911-9	205-99-2									
30	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
31	benzo[a]pyrene; benzo[def]chrysene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				0.05 mg/kg		0.05 mg/kg	0.000005 %		
		205-883-8	191-24-2							
Total:								0.539 %		

Key

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

Classification of sample: WS32[2]

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

Sample details

Sample Name:	WS32[2]	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	2.40 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.6 mg/kg	2.775	1.665	mg/kg	0.000167 %		
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	1.1 mg/kg	3.22	3.542	mg/kg	0.000354 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	7 mg/kg	1.126	7.881	mg/kg	0.000788 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	9 mg/kg	1.56	14.038	mg/kg	0.0009 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	2.99 mg/kg	1.353	4.047	mg/kg	0.000405 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	13 mg/kg	2.976	38.691	mg/kg	0.00387 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	25 mg/kg	2.774	69.354	mg/kg	0.00694 %		
12	pH				8.55 pH		8.55	pH	8.55 pH		
13	naphthalene	601-052-00-2	202-049-5	91-20-3	0.07 mg/kg		0.07	mg/kg	0.000007 %		
14	acenaphthylene		205-917-1	208-96-8	0.06 mg/kg		0.06	mg/kg	0.000006 %		
15	acenaphthene		201-469-6	83-32-9	0.27 mg/kg		0.27	mg/kg	0.000027 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	fluorene	201-695-5	86-73-7		0.42 mg/kg		0.42 mg/kg	0.000042 %			
17	phenanthrene	201-581-5	85-01-8		0.94 mg/kg		0.94 mg/kg	0.000094 %			
18	anthracene	204-371-1	120-12-7		0.23 mg/kg		0.23 mg/kg	0.000023 %			
19	fluoranthene	205-912-4	206-44-0		0.86 mg/kg		0.86 mg/kg	0.000086 %			
20	pyrene	204-927-3	129-00-0		0.86 mg/kg		0.86 mg/kg	0.000086 %			
21	benzo[a]anthracene	601-033-00-9	200-280-6		0.22 mg/kg		0.22 mg/kg	0.000022 %			
22	chrysene	601-048-00-0	205-923-4		0.26 mg/kg		0.26 mg/kg	0.000026 %			
23	benzo[b]fluoranthene	601-034-00-4	205-911-9		0.26 mg/kg		0.26 mg/kg	0.000026 %			
24	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
25	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		0.16 mg/kg		0.16 mg/kg	0.000016 %			
26	indeno[123-cd]pyrene	205-893-2	193-39-5		0.13 mg/kg		0.13 mg/kg	0.000013 %			
27	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
28	benzo[ghi]perylene	205-883-8	191-24-2		0.09 mg/kg		0.09 mg/kg	0.000009 %			
Total:									0.0145 %		

Key

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

Classification of sample: HTP1

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

Sample details

Sample Name:	LoW Code:
HTP1	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				3 mg/kg	1.32	3.961 mg/kg	0.000396 %		
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				7 mg/kg	1.126	7.881 mg/kg	0.000788 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	8 mg/kg	1.56	12.479 mg/kg	0.0008 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				9 mg/kg	2.976	26.786 mg/kg	0.00268 %		
	028-035-00-7	238-766-5	14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	034-002-00-8									
11	zinc { zinc chromate }				24 mg/kg	2.774	66.58 mg/kg	0.00666 %		
	024-007-00-3	236-878-9	13530-65-9							
12	pH				7.86 pH		7.86 pH	7.86 pH		
13	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
14	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
15	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
17	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
18	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
19	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-912-4	206-44-0								
20	pyrene				0.09 mg/kg		0.09 mg/kg	0.000009 %			
		204-927-3	129-00-0								
21	benzo[a]anthracene				0.14 mg/kg		0.14 mg/kg	0.000014 %			
	601-033-00-9	200-280-6	56-55-3								
22	chrysene				0.19 mg/kg		0.19 mg/kg	0.000019 %			
	601-048-00-0	205-923-4	218-01-9								
23	benzo[b]fluoranthene				0.36 mg/kg		0.36 mg/kg	0.000036 %			
	601-034-00-4	205-911-9	205-99-2								
24	benzo[k]fluoranthene				0.12 mg/kg		0.12 mg/kg	0.000012 %			
	601-036-00-5	205-916-6	207-08-9								
25	benzo[a]pyrene; benzo[def]chrysene				0.32 mg/kg		0.32 mg/kg	0.000032 %			
	601-032-00-3	200-028-5	50-32-8								
26	indeno[123-cd]pyrene				0.53 mg/kg		0.53 mg/kg	0.000053 %			
		205-893-2	193-39-5								
27	dibenz[a,h]anthracene				0.13 mg/kg		0.13 mg/kg	0.000013 %			
	601-041-00-2	200-181-8	53-70-3								
28	benzo[ghi]perylene				0.59 mg/kg		0.59 mg/kg	0.000059 %			
		205-883-8	191-24-2								
Total:									0.0126 %		

Key

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

Classification of sample: HTP3

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

Sample details

Sample Name:	LoW Code:	
HTP3	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)
0.40 m		

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				1 mg/kg	1.126	1.126	mg/kg	0.000113 %		
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	1 mg/kg	1.56	1.56	mg/kg	0.0001 %		
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				2 mg/kg	2.976	5.953	mg/kg	0.000595 %		
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
11	zinc { zinc chromate }				6 mg/kg	2.774	16.645	mg/kg	0.00166 %		
	024-007-00-3	236-878-9	13530-65-9								
12	pH				8.63 pH		8.63	pH	8.63 pH		
13	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
14	acenaphthylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8								
15	acenaphthene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	fluorene	201-695-5	86-73-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
17	phenanthrene	201-581-5	85-01-8		0.03 mg/kg		0.03 mg/kg	0.000003 %			
18	anthracene	204-371-1	120-12-7		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
19	fluoranthene	205-912-4	206-44-0		0.08 mg/kg		0.08 mg/kg	0.000008 %			
20	pyrene	204-927-3	129-00-0		0.08 mg/kg		0.08 mg/kg	0.000008 %			
21	benzo[a]anthracene	601-033-00-9	200-280-6		0.05 mg/kg		0.05 mg/kg	0.000005 %			
22	chrysene	601-048-00-0	205-923-4		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
23	benzo[b]fluoranthene	601-034-00-4	205-911-9		0.06 mg/kg		0.06 mg/kg	0.000006 %			
24	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
25	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		0.05 mg/kg		0.05 mg/kg	0.000005 %			
26	indeno[123-cd]pyrene	205-893-2	193-39-5		0.05 mg/kg		0.05 mg/kg	0.000005 %			
27	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
28	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
Total:									0.00366 %		

Key

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

Classification of sample: BH1

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

Sample details

Sample Name:	LoW Code:	
BH1	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)
0.60 m		

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	● pH				8.21 pH		8.21	pH	8.21 pH		
Total:										0%	

Key

- User supplied data
- Determinand defined or amended by HazWasteOnline (see Appendix A)

Classification of sample: SA1

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

Sample details

Sample Name:	SA1	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.60 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

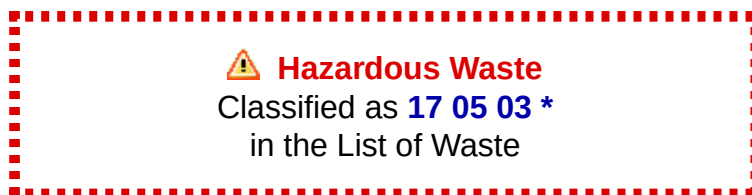
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	4 mg/kg	1.32	5.281	mg/kg	0.000528 %		
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	1.8 mg/kg	1.142	2.056	mg/kg	0.000206 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	6 mg/kg	1.126	6.755	mg/kg	0.000676 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	8 mg/kg	1.56	12.479	mg/kg	0.0008 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	23 mg/kg	2.976	68.454	mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	28 mg/kg	2.774	77.676	mg/kg	0.00777 %		
12	pH				9.01 pH		9.01	pH	9.01 pH		
13	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
14	acenaphthylene		205-917-1	208-96-8	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
15	acenaphthene		201-469-6	83-32-9	0.01 mg/kg		0.01	mg/kg	0.000001 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
17	phenanthrene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		201-581-5	85-01-8							
18	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
19	fluoranthene				0.2 mg/kg		0.2 mg/kg	0.00002 %		
		205-912-4	206-44-0							
20	pyrene				0.17 mg/kg		0.17 mg/kg	0.000017 %		
		204-927-3	129-00-0							
21	benzo[a]anthracene				0.15 mg/kg		0.15 mg/kg	0.000015 %		
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				0.19 mg/kg		0.19 mg/kg	0.000019 %		
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				0.25 mg/kg		0.25 mg/kg	0.000025 %		
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				0.19 mg/kg		0.19 mg/kg	0.000019 %		
	601-032-00-3	200-028-5	50-32-8							
26	indeno[123-cd]pyrene				0.23 mg/kg		0.23 mg/kg	0.000023 %		
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				0.05 mg/kg		0.05 mg/kg	0.000005 %		
	601-041-00-2	200-181-8	53-70-3							
28	benzo[ghi]perylene				0.2 mg/kg		0.2 mg/kg	0.00002 %		
		205-883-8	191-24-2							
Total:								0.0179 %		

Key

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

Classification of sample: WS1



Sample details

Sample Name:	LoW Code:
WS1	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.60 m	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.: 0.92%)

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.: 0.92%)

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.: 0.92%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg		<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg		<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg		<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
4	cadmium { cadmium oxide }				<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	copper { dicopper oxide; copper (I) oxide }				1	mg/kg	1.126	1.126	mg/kg	0.000113 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	2	mg/kg	1.56	3.12	mg/kg	0.0002 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				15	mg/kg	2.976	44.644	mg/kg	0.00446 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
11	zinc { zinc chromate }				17	mg/kg	2.774	47.16	mg/kg	0.00472 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				9200	mg/kg		9200	mg/kg	0.92 %		
			TPH									
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	pH				9.04	pH		9.04	pH	9.04 pH		
			PH									
19	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
20	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
21	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
22	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
23	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
24	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
25	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
26	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
27	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
28	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
29	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
30	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number								
31		benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-032-00-3	200-028-5	50-32-8								
32	■	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5								
33		dibenz[a,h]anthracene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3								
34	■	benzo[ghi]perylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2								
								Total:	0.931 %			

Key

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

Classification of sample: WS2

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

Sample details

Sample Name:	WS2	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	1.10 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	6 mg/kg	1.32	7.922	mg/kg	0.000792 %		
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	1.1 mg/kg	2.775	3.053	mg/kg	0.000305 %		
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	2.6 mg/kg	3.22	8.372	mg/kg	0.000837 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	10 mg/kg	1.126	11.259	mg/kg	0.00113 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	13 mg/kg	1.56	20.278	mg/kg	0.0013 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	54 mg/kg	2.976	160.718	mg/kg	0.0161 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	69 mg/kg	2.774	191.416	mg/kg	0.0191 %		
12	TPH (C6 to C40) petroleum group		TPH		1 mg/kg		1	mg/kg	0.0001 %		
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
14	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
15	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	pH				8.73 pH		8.73 pH	8.73 pH			
			PH								
19	naphthalene				0.29 mg/kg		0.29 mg/kg	0.000029 %			
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				0.12 mg/kg		0.12 mg/kg	0.000012 %			
		205-917-1	208-96-8								
21	acenaphthene				1.64 mg/kg		1.64 mg/kg	0.000164 %			
		201-469-6	83-32-9								
22	fluorene				1.84 mg/kg		1.84 mg/kg	0.000184 %			
		201-695-5	86-73-7								
23	phenanthrene				6.57 mg/kg		6.57 mg/kg	0.000657 %			
		201-581-5	85-01-8								
24	anthracene				1.47 mg/kg		1.47 mg/kg	0.000147 %			
		204-371-1	120-12-7								
25	fluoranthene				7.14 mg/kg		7.14 mg/kg	0.000714 %			
		205-912-4	206-44-0								
26	pyrene				6.03 mg/kg		6.03 mg/kg	0.000603 %			
		204-927-3	129-00-0								
27	benzo[a]anthracene				2.48 mg/kg		2.48 mg/kg	0.000248 %			
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				2.8 mg/kg		2.8 mg/kg	0.00028 %			
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				3.26 mg/kg		3.26 mg/kg	0.000326 %			
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				0.97 mg/kg		0.97 mg/kg	0.000097 %			
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				2.22 mg/kg		2.22 mg/kg	0.000222 %			
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				1.62 mg/kg		1.62 mg/kg	0.000162 %			
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				0.47 mg/kg		0.47 mg/kg	0.000047 %			
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				1.15 mg/kg		1.15 mg/kg	0.000115 %			
		205-883-8	191-24-2								
Total:									0.0442 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Unlikely to be flammable at concentrations of less than 0.1% by weight.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0001%)

Classification of sample: WS2[2]

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

Sample details

Sample Name:	WS2[2]	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	2.40 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Entry:			

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	5 mg/kg	1.32	6.602	mg/kg	0.00066 %		
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	1 mg/kg	2.775	2.775	mg/kg	0.000278 %		
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	2.4 mg/kg	3.22	7.728	mg/kg	0.000773 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	8 mg/kg	1.126	9.007	mg/kg	0.000901 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	10 mg/kg	1.56	15.598	mg/kg	0.001 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	56 mg/kg	2.976	166.671	mg/kg	0.0167 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	75 mg/kg	2.774	208.061	mg/kg	0.0208 %		
12	pH				8.75 pH		8.75	pH	8.75 pH		
13	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
14	acenaphthylene		205-917-1	208-96-8	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
15	acenaphthene		201-469-6	83-32-9	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	fluorene	201-695-5	86-73-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	phenanthrene	201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
18	anthracene	204-371-1	120-12-7		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
19	fluoranthene	205-912-4	206-44-0		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
20	pyrene	204-927-3	129-00-0		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
21	benzo[a]anthracene	601-033-00-9	200-280-6		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
22	chrysene	601-048-00-0	205-923-4		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
23	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
25	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
28	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0417 %		

Key

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

Classification of sample: WS3

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

Sample details

Sample Name:	LoW Code:
WS3	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

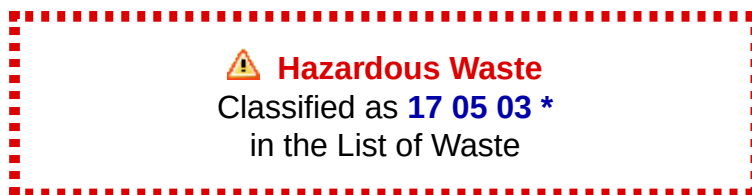
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				0.8 mg/kg	2.775	2.22	mg/kg	0.000222 %		
	004-003-00-8	215-133-1	1304-56-9								
3	boron { dicobalt trioxide; boric oxide }				1.7 mg/kg	3.22	5.474	mg/kg	0.000547 %		
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				2 mg/kg	1.126	2.252	mg/kg	0.000225 %		
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	7 mg/kg	1.56	10.919	mg/kg	0.0007 %		
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				26 mg/kg	2.976	77.383	mg/kg	0.00774 %		
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
11	zinc { zinc chromate }				38 mg/kg	2.774	105.418	mg/kg	0.0105 %		
	024-007-00-3	236-878-9	13530-65-9								
12	pH				9.03 pH		9.03	pH	9.03 pH		
13	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
14	acenaphthylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8								
15	acenaphthene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
17	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
18	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
19	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0							
20	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0							
21	benzo[a]anthracene				0.04 mg/kg		0.04 mg/kg	0.000004 %		
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				0.09 mg/kg		0.09 mg/kg	0.000009 %		
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				0.06 mg/kg		0.06 mg/kg	0.000006 %		
	601-032-00-3	200-028-5	50-32-8							
26	indeno[123-cd]pyrene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
28	benzo[ghi]perylene				0.06 mg/kg		0.06 mg/kg	0.000006 %		
		205-883-8	191-24-2							
Total:								0.0207 %		

Key

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

Classification of sample: WS4



Sample details

Sample Name:	LoW Code:
WS4	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
1.80 m	

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.: 0.125%)

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.: 0.125%)

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.: 0.125%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				0.8 mg/kg	2.775	2.22	mg/kg	0.000222 %		
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
4	cadmium { cadmium oxide }				<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
6	copper { dicopper oxide; copper (I) oxide }				5	mg/kg	1.126	5.629	mg/kg	0.000563 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	11	mg/kg	1.56	17.158	mg/kg	0.0011 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				40	mg/kg	2.976	119.051	mg/kg	0.0119 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8											
11	zinc { zinc chromate }				55	mg/kg	2.774	152.578	mg/kg	0.0153 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				1250	mg/kg		1250	mg/kg	0.125 %		
			TPH									
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	pH				9.04	pH		9.04	pH	9.04 pH		
			PH									
19	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
20	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
21	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
22	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
23	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
24	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
25	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
26	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
27	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
28	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
29	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
30	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number								
31		benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-032-00-3	200-028-5	50-32-8								
32	■	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5								
33		dibenz[a,h]anthracene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3								
34	■	benzo[ghi]perylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2								
								Total:	0.155 %			

Key

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

Classification of sample: WS5

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

Sample details

Sample Name:	WS5	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	2.60 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
		Entry:	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.6 mg/kg	2.775	1.665	mg/kg	0.000167 %		
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	3 mg/kg	1.126	3.378	mg/kg	0.000338 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	5 mg/kg	1.56	7.799	mg/kg	0.0005 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	31 mg/kg	2.976	92.264	mg/kg	0.00923 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	38 mg/kg	2.774	105.418	mg/kg	0.0105 %		
12	TPH (C6 to C40) petroleum group		TPH		13 mg/kg		13	mg/kg	0.0013 %		
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
14	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
15	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	pH				9.15 pH		9.15 pH	9.15 pH			
			PH								
19	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
21	acenaphthene				0.03 mg/kg		0.03 mg/kg	0.000003 %			
		201-469-6	83-32-9								
22	fluorene				0.08 mg/kg		0.08 mg/kg	0.000008 %			
		201-695-5	86-73-7								
23	phenanthrene				0.18 mg/kg		0.18 mg/kg	0.000018 %			
		201-581-5	85-01-8								
24	anthracene				0.06 mg/kg		0.06 mg/kg	0.000006 %			
		204-371-1	120-12-7								
25	fluoranthene				0.27 mg/kg		0.27 mg/kg	0.000027 %			
		205-912-4	206-44-0								
26	pyrene				0.25 mg/kg		0.25 mg/kg	0.000025 %			
		204-927-3	129-00-0								
27	benzo[a]anthracene				0.07 mg/kg		0.07 mg/kg	0.000007 %			
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				0.08 mg/kg		0.08 mg/kg	0.000008 %			
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				0.06 mg/kg		0.06 mg/kg	0.000006 %			
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
Total:									0.0232 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Unlikely to be flammable at concentrations of less than 0.1% by weight.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0013%)

Classification of sample: WS5[2]

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

Sample details

Sample Name:	WS5[2]	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	3.90 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
3	boron { dicobalt trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	1 mg/kg	1.126	1.126	mg/kg	0.000113 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	2 mg/kg	1.56	3.12	mg/kg	0.0002 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	24 mg/kg	2.976	71.43	mg/kg	0.00714 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	26 mg/kg	2.774	72.128	mg/kg	0.00721 %		
12	pH				9.1 pH		9.1	pH	9.1 pH		
13	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
14	acenaphthylene		205-917-1	208-96-8	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
15	acenaphthene		201-469-6	83-32-9	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	fluorene	201-695-5	86-73-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	phenanthrene	201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
18	anthracene	204-371-1	120-12-7		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
19	fluoranthene	205-912-4	206-44-0		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
20	pyrene	204-927-3	129-00-0		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
21	benzo[a]anthracene	601-033-00-9	200-280-6		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
22	chrysene	601-048-00-0	205-923-4		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
23	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
25	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
28	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0159 %		

Key

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

Classification of sample: WS6

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

Sample details

Sample Name:	LoW Code:
WS6	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.80 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { dicobalt trioxide; boric oxide }				<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				<1 mg/kg	1.126	<1.126	mg/kg	<0.000113 %		<LOD
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	2 mg/kg	1.56	3.12	mg/kg	0.0002 %		
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				14 mg/kg	2.976	41.668	mg/kg	0.00417 %		
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
11	zinc { zinc chromate }				16 mg/kg	2.774	44.386	mg/kg	0.00444 %		
	024-007-00-3	236-878-9	13530-65-9								
12	pH				9.2 pH		9.2	pH	9.2 pH		
13	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
14	acenaphthylene				0.02 mg/kg		0.02	mg/kg	0.000002 %		
		205-917-1	208-96-8								
15	acenaphthene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	fluorene				0.01 mg/kg		0.01 mg/kg	0.000001 %		
		201-695-5	86-73-7							
17	phenanthrene				0.21 mg/kg		0.21 mg/kg	0.000021 %		
		201-581-5	85-01-8							
18	anthracene				0.05 mg/kg		0.05 mg/kg	0.000005 %		
		204-371-1	120-12-7							
19	fluoranthene				0.52 mg/kg		0.52 mg/kg	0.000052 %		
		205-912-4	206-44-0							
20	pyrene				0.46 mg/kg		0.46 mg/kg	0.000046 %		
		204-927-3	129-00-0							
21	benzo[a]anthracene				0.29 mg/kg		0.29 mg/kg	0.000029 %		
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				0.31 mg/kg		0.31 mg/kg	0.000031 %		
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				0.36 mg/kg		0.36 mg/kg	0.000036 %		
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				0.12 mg/kg		0.12 mg/kg	0.000012 %		
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				0.32 mg/kg		0.32 mg/kg	0.000032 %		
	601-032-00-3	200-028-5	50-32-8							
26	indeno[123-cd]pyrene				0.32 mg/kg		0.32 mg/kg	0.000032 %		
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				0.07 mg/kg		0.07 mg/kg	0.000007 %		
	601-041-00-2	200-181-8	53-70-3							
28	benzo[ghi]perylene				0.28 mg/kg		0.28 mg/kg	0.000028 %		
		205-883-8	191-24-2							
Total:								0.0104 %		

Key

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

Classification of sample: WS7

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

Sample details

Sample Name:	LoW Code:
WS7	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.40 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				3 mg/kg	1.32	3.961	mg/kg	0.000396 %		
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				0.5 mg/kg	2.775	1.388	mg/kg	0.000139 %		
	004-003-00-8	215-133-1	1304-56-9								
3	boron { dicobalt trioxide; boric oxide }				<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				12 mg/kg	1.126	13.511	mg/kg	0.00135 %		
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	5 mg/kg	1.56	7.799	mg/kg	0.0005 %		
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				20 mg/kg	2.976	59.525	mg/kg	0.00595 %		
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
11	zinc { zinc chromate }				29 mg/kg	2.774	80.45	mg/kg	0.00805 %		
	024-007-00-3	236-878-9	13530-65-9								
12	pH				8.01 pH		8.01	pH	8.01 pH		
13	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
14	acenaphthylene				0.02 mg/kg		0.02	mg/kg	0.000002 %		
		205-917-1	208-96-8								
15	acenaphthene				0.02 mg/kg		0.02	mg/kg	0.000002 %		
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	fluorene				0.02 mg/kg		0.02 mg/kg	0.000002 %		
		201-695-5	86-73-7							
17	phenanthrene				0.28 mg/kg		0.28 mg/kg	0.000028 %		
		201-581-5	85-01-8							
18	anthracene				0.06 mg/kg		0.06 mg/kg	0.000006 %		
		204-371-1	120-12-7							
19	fluoranthene				0.74 mg/kg		0.74 mg/kg	0.000074 %		
		205-912-4	206-44-0							
20	pyrene				0.68 mg/kg		0.68 mg/kg	0.000068 %		
		204-927-3	129-00-0							
21	benzo[a]anthracene				0.42 mg/kg		0.42 mg/kg	0.000042 %		
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				0.46 mg/kg		0.46 mg/kg	0.000046 %		
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				0.56 mg/kg		0.56 mg/kg	0.000056 %		
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				0.2 mg/kg		0.2 mg/kg	0.00002 %		
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				0.5 mg/kg		0.5 mg/kg	0.00005 %		
	601-032-00-3	200-028-5	50-32-8							
26	indeno[123-cd]pyrene				0.5 mg/kg		0.5 mg/kg	0.00005 %		
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
	601-041-00-2	200-181-8	53-70-3							
28	benzo[ghi]perylene				0.43 mg/kg		0.43 mg/kg	0.000043 %		
		205-883-8	191-24-2							
Total:								0.0177 %		

Key

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

Classification of sample: SA2

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

Sample details

Sample Name:	SA2	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.70 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	1	mg/kg	1.32	1.32	mg/kg	0.000132 %		
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
3	boron { dicobalt trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	7	mg/kg	1.126	7.881	mg/kg	0.000788 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	mg/kg	1.56	1.56	mg/kg	0.0001 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	4	mg/kg	2.976	11.905	mg/kg	0.00119 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	8	mg/kg	2.774	22.193	mg/kg	0.00222 %		
12	pH				8.34	pH		8.34	pH	8.34 pH		
13	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
14	acenaphthylene		205-917-1	208-96-8	0.09	mg/kg		0.09	mg/kg	0.000009 %		
15	acenaphthene		201-469-6	83-32-9	0.11	mg/kg		0.11	mg/kg	0.000011 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	fluorene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		201-695-5	86-73-7							
17	phenanthrene				1.64 mg/kg		1.64 mg/kg	0.000164 %		
		201-581-5	85-01-8							
18	anthracene				0.49 mg/kg		0.49 mg/kg	0.000049 %		
		204-371-1	120-12-7							
19	fluoranthene				5.78 mg/kg		5.78 mg/kg	0.000578 %		
		205-912-4	206-44-0							
20	pyrene				5.75 mg/kg		5.75 mg/kg	0.000575 %		
		204-927-3	129-00-0							
21	benzo[a]anthracene				2.74 mg/kg		2.74 mg/kg	0.000274 %		
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				2.89 mg/kg		2.89 mg/kg	0.000289 %		
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				4.35 mg/kg		4.35 mg/kg	0.000435 %		
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				1.61 mg/kg		1.61 mg/kg	0.000161 %		
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				4.17 mg/kg		4.17 mg/kg	0.000417 %		
	601-032-00-3	200-028-5	50-32-8							
26	indeno[123-cd]pyrene				3.48 mg/kg		3.48 mg/kg	0.000348 %		
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				0.68 mg/kg		0.68 mg/kg	0.000068 %		
	601-041-00-2	200-181-8	53-70-3							
28	benzo[ghi]perylene				3.3 mg/kg		3.3 mg/kg	0.00033 %		
		205-883-8	191-24-2							
Total:								0.00914 %		

Key

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

Classification of sample: BH3

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

Sample details

Sample Name:	BH3	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	1.00 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %			<LOD
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %			<LOD
3	boron { dicobalt trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		4 mg/kg	1.126	4.504 mg/kg	0.00045 %			
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	3 mg/kg	1.56	4.679 mg/kg	0.0003 %			
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %			<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		8 mg/kg	2.976	23.81 mg/kg	0.00238 %			
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		17 mg/kg	2.774	47.16 mg/kg	0.00472 %			
12	pH					8.01 pH		8.01 pH	8.01 pH			
13	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
14	acenaphthylene		205-917-1	208-96-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
15	acenaphthene		201-469-6	83-32-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
17	phenanthrene				0.03 mg/kg		0.03 mg/kg	0.000003 %		
		201-581-5	85-01-8							
18	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
19	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0							
20	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0							
21	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
26	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
28	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.00903 %		

Key

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

Classification of sample: BH4

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

Sample details

Sample Name:	LoW Code:
BH4	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.10 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { dicobalt trioxide; boric oxide }				<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				3 mg/kg	1.126	3.378	mg/kg	0.000338 %		
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	8 mg/kg	1.56	12.479	mg/kg	0.0008 %		
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				8 mg/kg	2.976	23.81	mg/kg	0.00238 %		
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	034-002-00-8										
11	zinc { zinc chromate }				18 mg/kg	2.774	49.935	mg/kg	0.00499 %		
	024-007-00-3	236-878-9	13530-65-9								
12	pH				7.01 pH		7.01	pH	7.01 pH		
13	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
14	acenaphthylene				0.03 mg/kg		0.03	mg/kg	0.000003 %		
		205-917-1	208-96-8								
15	acenaphthene				0.02 mg/kg		0.02	mg/kg	0.000002 %		
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	fluorene				0.02 mg/kg		0.02 mg/kg	0.000002 %		
		201-695-5	86-73-7							
17	phenanthrene				0.2 mg/kg		0.2 mg/kg	0.00002 %		
		201-581-5	85-01-8							
18	anthracene				0.06 mg/kg		0.06 mg/kg	0.000006 %		
		204-371-1	120-12-7							
19	fluoranthene				0.66 mg/kg		0.66 mg/kg	0.000066 %		
		205-912-4	206-44-0							
20	pyrene				0.65 mg/kg		0.65 mg/kg	0.000065 %		
		204-927-3	129-00-0							
21	benzo[a]anthracene				0.46 mg/kg		0.46 mg/kg	0.000046 %		
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				0.58 mg/kg		0.58 mg/kg	0.000058 %		
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				0.74 mg/kg		0.74 mg/kg	0.000074 %		
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				0.26 mg/kg		0.26 mg/kg	0.000026 %		
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				0.57 mg/kg		0.57 mg/kg	0.000057 %		
	601-032-00-3	200-028-5	50-32-8							
26	indeno[123-cd]pyrene				0.63 mg/kg		0.63 mg/kg	0.000063 %		
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				0.14 mg/kg		0.14 mg/kg	0.000014 %		
	601-041-00-2	200-181-8	53-70-3							
28	benzo[ghi]perylene				0.58 mg/kg		0.58 mg/kg	0.000058 %		
		205-883-8	191-24-2							
Total:								0.0102 %		

Key

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

Classification of sample: BH4[2]



Unknown. Chemistry data not provided.

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

Sample details

Sample Name:	LoW Code:
BH4[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.10 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: **0% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
Total:								0%		

Key

User supplied data

Appendix A: Classifier defined and non CLP determinands

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

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

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

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

CLP index number: 601-023-00-4

Description/Comments:

Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)

Additional Hazard Statement(s): Carc. 2 H351

Reason for additional Hazards Statement(s):

03 Jun 2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

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

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 21 Aug 2015

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

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4 H302 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

• **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2 H315 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

• **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2 H351

• **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

beryllium {beryllium oxide}

Reasonable case CLP species based on hazard statements/molecular weight. Industrial sources include: most common (non alloy) form, used in ceramics (edit as required)

boron {diboron trioxide; boric oxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

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

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead chromate}

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

mercury {mercury dichloride}

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

nickel {nickel chromate}

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

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

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil. (edit as required)

zinc {zinc chromate}

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

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2020.241.4455.8692 (28 Aug 2020)

HazWasteOnline Database: 2020.241.4455.8692 (28 Aug 2020)

This classification utilises the following guidance and legislation:

WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

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

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



1ST LINE DEFENCE



Detailed Unexploded Ordnance (UXO) Risk Assessment

Project Name	Langstone Technology Park
Client	Delta Simons
Site Address	Langstone Technology Park, Havant, P09 1SA
Report Reference	DA8760-00
Date	28 th May 2019
Originator	AB / AH



Find us on Twitter and Facebook

Company No: 7717863 VAT No: 128 8833 79

www.1stlinedefence.co.uk

1st Line Defence Limited

Unit 3, Maple Park, Essex Road, Hoddesdon, Herts. EN11 0EX

Tel: +44 (0)1992 245 020 info@1stlinedefence.co.uk



Executive Summary

Site Location and Description

The site is situated in the Langstone area, near Havant, Hampshire. It is bordered by the A27 to the north, a number of residential houses to the east, leading to Langstone Road, whilst commercial use properties border the southern and western aspects.

The site is currently occupied by a large commercial use complex, known as Langstone Technology Park. It is comprised of warehouses, multi-storied properties and hard standing in use for car parking.

The site is approximately centred on the OS grid reference: **SU 7127905682**.

Proposed Works

According to information provided by the client there are no works planned on-site in the short term. However, support planning is currently being undertaken ahead of a potential redevelopment – for which site investigations will be required in the medium term and piling may be required for development.

Geology and Bomb Penetration Depth

The British Geological Survey (BGS) map shows the site to be underlain by Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (undifferentiated) – Chalk, of the Cretaceous Period.

Site specific geotechnical information was not available to 1st Line Defence at the time of the production of this report. An assessment of maximum bomb penetration depth can be made once such data becomes available, or by a UXO specialist during on-site support.

It should be noted that the maximum depth that a bomb could reach may vary across a site and will be largely dependent on the specific underlying geological strata and its density.

UXO Risk Assessment

1st Line Defence has assessed that there is a **Medium Risk** from items of German aerial delivered UXO and anti-aircraft UXO across the site, with a **Low-Medium Risk** assessed from items of LSA/SAA. This assessment is based on the following factors:

German Aerial Delivered Ordnance

- During WWII, the site was located within the Urban District of Havant and Waterloo. Home Office statistics suggest that Havant and Waterloo endured an overall low-moderate density of bombing with an average of 35.4 item of ordnance recorded per 1,000 acres. This density can largely be attributed to a number of bombing decoy sites situated on the Binness and Hayling Islands, which were designed to draw bombing away from civil and military targets within Portsmouth.
- Consulted records indicate that these decoys were successful on a number of occasions. The closest of which is mapped as a QL naval bombing decoy located approximately 2km south-west of the proposed site. It should be noted that areas situated within the vicinity of Luftwaffe targets, such as decoy sites, were often also bombed owing to the limitations of WWII-era technology and the difficulty associated with finding a specific target within black-out conditions for enemy bombers.
- Bombing incident records, obtained from the Hampshire Archives and Local Studies, indicates that a bomb, suspected to be a HE bomb, fell within a 'searchlight field' located at Langstone Road in March of 1941. A UXB and number of AA shells are also recorded to have fallen within this area in 1942.
- Anecdotal information, retained from a published civilian account of the war, locates the anti-aircraft battery and searchlight emplacement on Langstone Road to have been situated at the site of proposed works '*where the Langstone Technology Park now is*'. This source also documents that the AA Battery was '*bombed on several occasions*'. It is therefore possible that additional bomb strikes may have occurred on or near the site boundary that are not covered within any of the consulted local ARP records.
- The presence of this feature is largely corroborated by WWII-era aerial photography of the site dated to 1946. In this image the site is primarily composed of open land, as well as allotment gardens, several smaller structures in the north-

**UXO Risk Assessment**

west, and a sewage works. Adjacent to the north-eastern border of the site, several features can be seen which are indicative of the aforementioned searchlight emplacement and anti-aircraft battery.

- No obvious evidence of bomb damage, such as disturbed ground or cratering, is obviously visible within the 1947 image. However, evidence of UXO may easily be obscured within the ground conditions present within the site, particularly areas of open land and vegetation. Moreover, the war-time access to much of the site is not anticipated to have been frequent, which may result in signs of UXO going unobserved. It is not thought likely that signs of UXB's would have been noticed within these conditions.
- Given the proximity of a number of bombing decoys and the number of bombing incidents recorded specifically in the site's immediate vicinity, as well as the poor ground conditions and lack of regular access within the site, it has not been possible to mitigate the risk that UXB's could have potentially fallen within the proposed site unrecorded.

Allied Ordnance

- Anecdotal information and WWII-era aerial photography indicates that a searchlight emplacement and an anti-aircraft battery had been situated within the sites immediate vicinity. The appearance of the anti-aircraft battery is indicative of a Light Anti-Aircraft (LAA) gun position and billeting for a relevant searchlight regiment, which often accompanied searchlight emplacements. It is also possible that members of the Home Guard could have operated in conjunction with this facility.
- Subsequently, it is possible that related items of Allied ordnance (LSA/SAA) could have been stored or disposed of within the east of site and its surrounding areas, in particular within the eastern extension of the site located adjacent to the searchlight and battery. However, this risk is considered unlikely given that the Mill Stream separated these Allied features from the main body of the site and the location of the Sewage works.
- Consequently, while the positioning of these Allied features is considered to elevate the risk of encountering Allied items of ordnance on site, the risk is not considered to be significant enough to be deemed a 'Medium' risk.
- The conditions in which HAA or LAA projectiles may have fallen unnoticed within the site boundary are however analogous to those regarding aerial delivered ordnance.

Post-WWII Redevelopment

- Post-war redevelopment of the site has included the removal of the sewage works and the subsequent development of Langstone Technology Park within the site, consisting of multi-storied structures and hard standing in use for car parking. Significant development has also taken place around the site, including the construction of road infrastructure, community infrastructure and residential housing. The risk of UXO remaining is considered to be substantially mitigated at the depths and locations of these post-war foundation and excavation works.

Recommended Risk Mitigation Measures

The following risk mitigation measures are recommended to support the proposed works at the Langstone Technology Park

All Works

- UXO Risk Management Plan
- Site Specific UXO Awareness Briefings to all personnel conducting intrusive works.

Open Intrusive Works (trial pits, service pits, open excavations, shallow foundations etc.)

- UXO Specialist On-site Support

Boreholes and Piled Foundations

- Intrusive Magnetometer Survey of all borehole and pile locations/clusters down to maximum bomb penetration depth.

Glossary

Abbreviation	Definition
AA	Anti-Aircraft
AFS	Auxiliary Fire Service
AP	Anti-Personnel
ARP	Air Raid Precautions
DA	Delay-action
EOC	Explosive Ordnance Clearance
EOD	Explosive Ordnance Disposal
FP	Fire Pot
GM	G Mine (Parachute mine)
HAA	Heavy Anti-Aircraft
HE	High Explosive
IB	Incendiary Bomb
JSEODOC	Joint Services Explosive Ordnance Disposal Operation Centre
LAA	Light Anti-Aircraft
LCC	London County Council
LRRB	Long Range Rocket Bomb (V-2)
LSA	Land Service Ammunition
NFF	National Filling Factory
OB	Oil Bomb
PAC	Pilotless Aircraft (V-1)
PB	Phosphorous Bomb
PM	Parachute Mine
POW	Prisoner Of War
RAF	Royal Air Force
RCAF	Royal Canadian Air Force
RFC	Royal Flying Corps
RNAS	Royal Naval Air Service
ROF	Royal Ordnance Factory
SA	Small Arms
SAA	Small Arms Ammunition
SD2	Anti-personnel "Butterfly Bomb"
SIP	Self-Igniting Phosphorous
U/C	Unclassified bomb
UP	Unrotated Projectile (rocket)
USAAF	United States Army Air Force
UX	Unexploded
UXAA	Unexploded Anti-Aircraft
UXB	Unexploded Bomb
UXO	Unexploded Ordnance
V-1	Flying Bomb (Doodlebug)
V-2	Long Range Rocket
WAAF	Women's Auxiliary Air Force
X	Exploded

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1st Line Defence Limited

Detailed Unexploded Ordnance (UXO) Risk Assessment

Site: Langstone Technology Park

Client: Delta Simons

1. Introduction

1.1. Background

1st Line Defence has been commissioned by Delta Simons to conduct a Detailed Unexploded Ordnance (UXO) Risk Assessment for the proposed works at the proposed Langstone Technology Park site.

Buried UXO can present a significant risk to construction works and development projects. The discovery of a suspect device during works can cause considerable disruption to operations as well as cause unwanted delays and expense.

UXO in the UK can originate from three principal sources:

1. Munitions resulting from wartime activities including German bombing in WWI and WWII, long range shelling, and defensive activities.
2. Munitions deposited as a result of military training and exercises.
3. Munitions lost, burnt, buried or otherwise discarded either deliberately, accidentally, or ineffectively.

This report will assess the potential factors that may contribute to the risk of UXO contamination. If an elevated risk is identified at the site, this report will recommend appropriate mitigation measures, in order to reduce the risk to as low as is reasonably practicable. Detailed analysis and evidence will be provided to ensure an understanding of the basis for the assessed risk level and any recommendations.

This report complies with the guidelines outlined in *CIRIA C681*, 'Unexploded Ordnance (UXO) A Guide for the Construction Industry.'

2. Method Statement

2.1. Report Objectives

The aim of this report is to conduct a comprehensive assessment of the potential risk from UXO at Langstone Technology Park. The report will also recommend appropriate site and work-specific risk mitigation measures to reduce the risk from explosive ordnance during the envisaged works to a level that is as low as reasonably practicable.

2.2. Risk Assessment Process

1st Line Defence has undertaken a five-step process for assessing the risk of UXO contamination:

1. The likelihood that the site was contaminated with UXO.
2. The likelihood that UXO remains on the site.
3. The likelihood that UXO may be encountered during the proposed works.
4. The likelihood that UXO may be initiated.
5. The consequences of initiating or encountering UXO.

In order to address the above, 1st Line Defence has taken into consideration the following factors:

- Evidence of WWI and WWII German aerial delivered bombing as well as the legacy of Allied occupation.
- The nature and conditions of the site during WWII.
- The extent of post-war development and UXO clearance operations on site.
- The scope and nature of the proposed works and the maximum assessed bomb penetration depth.
- The nature of ordnance that may have contaminated the proposed site area.

2.3. Sources of Information

Every reasonable effort has been made to ensure that relevant evidence has been consulted and presented in order to produce a thorough and comprehensible report for the client. To achieve this the following, which includes military records and archive material held in the public domain, have been accessed:

- The National Archives and Hampshire Archives and Local Studies.
- Historical mapping datasets.
- Historic England National Monuments Record.
- Relevant information supplied by Delta Simons.
- Available material from 33 Engineer Regiment (EOD) Archive (now 28 Regt).
- 1st Line Defence's extensive historical archives, library and UXO geo-datasets.
- Open sources such as published books and internet resources.

Research involved a visit to The National Archives and Hampshire Archives and Local Studies.

3. Background to Bombing Records

3.1. General Considerations of Historical Research

This desktop assessment is based largely upon analysis of historical evidence. Every reasonable effort has been made to locate and present significant and pertinent information. 1st Line Defence cannot be held accountable for any changes to the assessed risk level or risk mitigation measures, based on documentation or other data that may come to light at a later date, or which was not available to 1st Line Defence during the production of this report.

It is often problematic and sometimes impossible to verify the completeness and accuracy of WWII-era records. As a consequence, conclusions as to the exact location and nature of a UXO risk can rarely be quantified and are to a degree subjective. To counter this, a range of sources have been consulted, presented and analysed. The same methodology is applied to each report during the risk assessment process. 1st Line Defence cannot be held responsible for any inaccuracies or the incompleteness in available historical information.

3.2. German Bombing Records

During WWII, bombing records were generally gathered locally by the police, Air Raid Precaution (ARP) wardens and military personnel. These records typically contained information such as the date, the location, the amount of damage caused and the types of bombs that had fallen during an air raid. This information was made either through direct observation or post-raid surveys. The Ministry of Home Security Bomb Census Organisation would then receive this information, which was plotted onto maps, charts, and tracing sheets by regional technical officers. The collective record set (regional bomb census mapping and locally gathered incidents records) would then be processed and summarised into reports by the Ministry of Home Security Research and Experiments Branch. The latter were tasked with providing the government 'a complete picture of air raid patterns, types of weapons used and damage caused- in particular to strategic services and installations such as railways, shipyards, factories and public utilities.'¹

The quality, detail and nature of record keeping could vary considerably between provincial towns, boroughs and cities. No two areas identically collated or recorded data. While some local authorities maintained records with a methodical approach, sources in certain areas can be considerably more vague, dispersed, and narrower in scope. In addition, the immediate priority was mostly focused on assisting casualties and minimising damage at the time. As a result, some records can be incomplete and contradictory. Furthermore, many records were even damaged or destroyed in subsequent air raids. Records of raids that took place on sparsely or uninhabited areas were often based upon third party or hearsay information and are therefore not always reliable. Whereas records of attacks on military or strategic targets were often maintained separately and have not always survived.

3.3. Allied Records

During WWII considerable areas of land were requisitioned by the War Office for the purpose of defence, training, munitions production and the construction of airfields. Records relating to military features vary and some may remain censored. Within urban environments datasets will be consulted detailing the location of munition production as well as wartime air and land defences. In rural locations it may be possible to obtain plans of military establishments, such as airfields, as well as training logs, record books, plans and personal memoirs. As with bombing records, every reasonable effort will be made to access records of, and ascertain any evidence of, military land use. However, there are occasions where such evidence is not available, as records may not be accessible, have been lost/destroyed, or simply were not kept in the first place.

¹ <http://www.nationalarchives.gov.uk/help-with-your-research/research-guides/bomb-census-survey-records-1940-1945/>.

4. UK Regulatory Environment and Guidelines

4.1. General

There is no formal obligation requiring a UXO risk assessment to be undertaken for construction projects in the UK, nor is there any specific legislation stipulating the management or mitigation of UXO risk. However, it is implicit in the legislation outlined below that those responsible for intrusive works (archaeology, site investigation, drilling, piling, excavation etc.) should undertake a comprehensive and robust assessment of the potential risks to employees and that mitigation measures are implemented to address any identified hazards.

4.2. CDM Regulations 2015

The Construction (Design and Management) Regulations 2015 (CDM 2015) define the responsibilities of parties involved in the construction of temporary or permanent structures.

The CDM 2015 establishes a duty of care extending from clients, principle co-ordinators, designers, and contractors to those working on, or affected by, a project. Those responsible for construction projects may therefore be accountable for the personal or proprietary loss of third parties, if correct health and safety procedure has not been applied.

Although the CDM does not specifically reference UXO, the risk presented by such items is both within the scope and purpose of the legislation. It is therefore implied that there is an obligation on parties to:

- Provide an appropriate assessment of potential UXO risks at the site (or ensure such an assessment is completed by others).
- Put in place appropriate risk mitigation measures if necessary.
- Supply all parties with information relevant to the risks presented by the project.
- Ensure the preparation of a suitably robust emergency response plan.

4.3. The 1974 Health and Safety at Work etc. Act

All employers have a responsibility under the Health and Safety at Work etc. Act 1974 and the Management of Health and Safety at Work Regulations 1999, to ensure the health and safety of their employees and third parties, so far as is reasonably practicable and conduct suitable and sufficient risk assessments.

4.4. CIRIA C681

In 2009, the Construction Industry Research and Information Association (CIRIA) produced a guide to UXO for the UK construction industry (CIRIA C681). CIRIA is a neutral, independent and not-for-profit body, linking organisations with common interests and facilitating a range of collaborative activities that help improve the industry.

The publication provides the UK construction industry with a defined process for the management of risks associated with UXO from WWI and WWII aerial bombardment. It is also broadly applicable to the risks from other forms of UXO that might be encountered. It focuses on construction professionals' needs, particularly if there is a suspected item of UXO on site and covers issues such as what to expect from a UXO specialist. The guidance also helps clients to fulfil their legal duty under CDM 2015 to provide designers and contractors with project specific health and safety information needed to identify hazards and risks associated with the design and construction work. This report conforms to this CIRIA guidance and to the various recommendations for good practice referenced therein. It is recommended that this document is acquired and studied where possible to allow a better understanding of the background to both the risk assessment process and the UXO issue in the UK in general.

4.5. Additional Legislation

In the event of a casualty resulting from the failure of an employer/client to address the risks relating to UXO, the organisation may be criminally liable under the Corporate Manslaughter and Corporate Homicide Act 2007.

5. The Role of Commercial UXO Contractors and The Authorities

5.1. Commercial UXO Specialists

The role of a UXO Specialist (often referred to as UXO Consultant or UXO Contractor) such as 1st Line Defence is defined in CIRIA C681 as the provision of expert knowledge and guidance to the client on the most appropriate and cost-effective approach to UXO risk management at a site.

The principal role of UXO Specialists is to provide the client with an appropriate assessment of the risk posed by UXO for a specific project, and identify and carry out suitable methodology for the mitigation of any identified risks to reduce them to an acceptable level.

The requirement for a UXO Specialist should ideally be identified in the initial stages of a project, and it is recommended that this occur prior to the start of any detailed design. This will enable the client to budget for expenditure that may be required to address the risks from UXO, and may enable the project team to identify appropriate techniques to eliminate or reduce potential risks through considered design, without the need for UXO specific mitigation measures. The UXO Specialist should have suitable qualifications, levels of competency and insurances.

Please note 1st Line Defence has the capability to provide a complete range of required UXO risk mitigation services, in order to reduce a risk to as low as reasonably practicable. This can involve the provision of both ground investigation, and where appropriate, UXO clearance services.

5.2. The Authorities

The police have a responsibility to co-ordinate the emergency services in the event of an ordnance-related incident at a construction site. Upon inspection they may impose a safety cordon, order an evacuation, and call the military authorities Joint Services Explosive Ordnance Disposal Operation Centre (JSEODOC) to arrange for investigation and/or disposal. Within the Metropolitan Police Operational Area, SO15 EOD will be tasked to any discovery of suspected UXO. The request for Explosive Officer (Expo) support is well understood and practiced by all Metropolitan Boroughs. The requirement for any additional assets will then be coordinated by the Expo if required.

In the absence of a UXO specialist, police officers will usually employ such precautionary safety measures, thereby causing works to cease, and possibly requiring the evacuation of neighbouring businesses and properties.

The priority given to the police request will depend on the EOD teams judgement of the nature of the UXO risk, the location, people and assets at risk, as well as the availability of resources. The speed of response varies; authorities may respond immediately or in some cases it may take several days for the item of ordnance to be dealt with. Depending on the on-site risk assessment the item of ordnance may be removed from the site and/or destroyed by a controlled explosion.

Following the removal of an item of UXO, the military authorities will only undertake further investigations or clearances in high-risk situations. If there are regular UXO finds on a site the JSEODOC may not treat each occurrence as an emergency and will recommend the construction company puts in place alternative procedures, such as the appointment of a commercial contractor to manage the situation.

6. The Site

6.1. Site Location

The site is situated in the Langstone area, near Havant, Hampshire. It is bordered by the A27 to the north, a number of residential houses to the east, leading to Langstone Road, whilst commercial use properties border the southern and western aspects.

The site is approximately centred on the OS grid reference: **SU 7127905682**.

Site location maps are presented in **Annex A**.

6.2. Site Description

The site is currently occupied by a large commercial use complex, known as Langstone Technology Park. It is comprised of warehouses, multi-storied properties and hard standing in use for car parking.

A recent aerial photograph and site plan are presented in **Annex B** and **Annex C** respectively.

7. Scope of the Proposed Works

7.1. General

According to information provided by the client there are no works planned on-site in the short term. However, support planning is currently being undertaken ahead of a potential redevelopment – for which site investigations will be required in the medium term and piling may be required for development.

8. Ground Conditions

8.1. General Geology

The British Geological Survey (BGS) map shows the site to be underlain by Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (undifferentiated) – Chalk, of the Cretaceous Period.

8.2. Site Specific Geology

Site-specific geotechnical data was not available during the production of this report.

9. Site History

9.1. Introduction

The purpose of this section is to identify the composition of the site pre and post-WWII. It is important to establish the historical use of the site, as this may indicate the site's relation to potential sources of UXO as well as help with determining factors such as the land use, groundcover, likely frequency of access and signs of bomb damage.

9.2. Ordnance Survey Historical Maps

Relevant historical maps were obtained for this report and are presented in **Annex D**. See below for a summary of the site history shown on acquired mapping.

WWI Period		
Date	Scale	Description
1909	1:2,500	This map shows the site to be largely occupied by open, vegetated ground with a small area labelled 'Sewage Works' in the north of the site. Brookside Road can also be seen intersecting into the north-west of the site, south of which a smaller structure is visible. The millstream, a small body of water, runs through the east of the site towards the sea. Small pockets of development are located within the wider area, largely to the north and south of the site's eastern aspect.

Pre-WWII		
Date	Scale	Description
1938 – 1942	1:10,560	No significant changes are noted within the site boundary, with the site remaining occupied by the <i>sewage works</i> , residential properties and open ground. In the wider area, there has been some additional development of housing to the east of the site.

Post-WWII		
Date	Scale	Description
1963	1:10,560	The site is still shown to be occupied by the <i>works</i> , whilst a small area of <i>allotment gardens</i> are now shown immediately south of the works. The remainder of the site is still shown to be comprised of open, vegetated ground.

9.3. Historical Photographs of the Site

Historical photographs have been consulted from the Aerofilms collection available from Britain From Above. A photograph providing a view of the site in 1928 is presented in **Annex E**, see below for a description of this photograph.

Title of Photograph	Comments
Havant Sewage Works, Havant, 1928	This image shows the Havant Sewage works in 1928. The site boundary encapsulates the majority of the sewage infrastructure with the remaining area occupied by open fields.

10. Introduction to German Aerial Delivered Ordnance

10.1. General

During WWI and WWII, the UK was subjected to bombing which often resulted in extensive damage to city centres, docks, rail infrastructure and industrial areas. The poor accuracy of WWII targeting technology and the nature of bombing techniques often resulted in neighbouring areas to targets sustaining collateral damage.

In addition to raids which concentrated on specific targets, indiscriminate bombing of large areas also took place, this occurred most prominently in the London 'Blitz', though affected many other towns and cities. As discussed in the following sections, a proportion of the bombs dropped on the UK did not detonate as designed. Although extensive efforts were made to locate and deal with these UXBs at the time, many still remain buried and can present a potential risk to construction projects.

The main focus of research for this section of the report will concern German aerial delivered ordnance dropped during WWII, although WWI bombing will also be considered.

10.2. Generic Types of WWII German Aerial Delivered Ordnance

To provide an informed assessment of the hazards posed by any items of unexploded ordnance that may remain in situ on site, the table below provides information on the types of German aerial delivered ordnance most commonly used by the Luftwaffe during WWII. Images and brief summaries of the characteristics of these items of ordnance are listed in **Annex F**.

Generic Types of WWII German Aerial Delivered Ordnance		
Type	Frequency	Likelihood of detection
High Explosive (HE) bombs	In terms of weight of ordnance dropped, HE bombs were the most frequently deployed by the Luftwaffe during WWII.	Although efforts were made to identify the presence of unexploded ordnance following an air raid, often the damage and destruction caused by detonated bombs made observation of UXB entry holes impossible. The entry hole of an unexploded bomb can be as little as 20cm in diameter and was easily overlooked in certain ground conditions (see Annex G). Furthermore, ARP documents describe the danger of assuming that damage, actually caused by a large UXB, was due to an exploded smaller bomb. UXBs therefore present the greatest risk to present-day intrusive works.
1kg Incendiary bombs (IB)	In terms of the number of weapons dropped, small IBs were the most numerous. Millions of these were dropped throughout WWII.	IBs had very limited penetration capability and in urban areas would often have been located in post-raid surveys. If they failed to initiate and fell in water, on soft vegetated ground, or bombed rubble, they could easily go unnoticed.
Large Incendiary bombs (IB)	These were not as common as the 1kg IBs, although they were more frequently deployed than PMs and AP bomblets.	If large IBs did penetrate the ground, complete combustion did not always occur and in such cases they could remain a risk to intrusive works.
Aerial or Parachute mines (PM)	There were deployed less frequently than HE and IBs due to size, cost and the difficulty of deployment.	If functioning correctly, PMs generally would have had a slow rate of descent and were very unlikely to have penetrated the ground. Where the parachute failed, mines would have simply shattered on impact if the main charge failed to explode. There have been extreme cases when these items have been found unexploded. However, in these scenarios, the ground was either extremely soft or the munition fell into water.
Anti-personnel (AP) bomblets	These were not commonly used and are generally considered to pose a low risk to most works in the UK.	SD2 bomblets were packed into containers holding between 6 and 108 submunitions. They had little ground penetration ability and should have been located by the post-raid survey unless they fell into water, dense vegetation or bomb rubble.

10.3. Failure Rate of German Aerial Delivered Ordnance

It has been estimated that 10% of WWII German aerial delivered HE bombs failed to explode as designed. Reasons for why such weapons might have failed to function as designed include:

- Malfunction of the fuze or gain mechanism (manufacturing fault, sabotage by forced labour or faulty installation).
- Many were fitted with a clockwork mechanism that could become immobilised on impact.
- Failure of the bomber aircraft to arm the bombs due to human error or an equipment defect.
- Jettisoning the bomb before it was armed or from a very low altitude. This most likely occurred if the bomber aircraft was under attack or crashing.

From 1940 to 1945 bomb disposal teams reportedly dealt with a total of 50,000 explosive items of 50kg and over, 7,000 anti-aircraft projectiles and 300,000 beach mines. Unexploded ordnance is still regularly encountered across the UK, see press articles in **Annex H**.

10.4. UXB Ground Penetration

An important consideration when assessing the risk from a UXB is the likely maximum depth of burial. There are several factors which determine the depth that an unexploded bomb will penetrate:

- Mass and shape of bomb.
- Height of release.
- Velocity and angle of bomb.
- Nature of the ground cover.
- Underlying geology.

Geology is perhaps the most important variable. If the ground is soft, there is a greater potential of deeper penetration. For example, peat and alluvium are easier to penetrate than gravel and sand, whereas layers of hard strata will significantly retard and may stop the trajectory of a UXB.

10.4.1. The J-Curve Effect

J-curve is the term used to describe the characteristic curve commonly followed by an aerial delivered bomb dropped from height after it penetrates the ground. Typically, as the bomb is slowed by its passage through underlying soils, its trajectory curves towards the surface. Many UXBs are found with their nose cone pointing upwards as a result of this effect. More importantly however is the resulting horizontal offset from the point of entry. This is typically a distance of about one third of the bomb's penetration depth, but can be higher in certain conditions.

10.4.2. WWII UXB Ground Penetration Studies

During WWII the Ministry of Home Security undertook a major study on actual bomb penetration depths, carrying out statistical analysis on the measured depths of 1,328 bombs as reported by bomb disposal (BD) teams. Conclusions were made as to the likely average and maximum depths of penetration of different sized bombs in different geological strata.

For example, the largest common German bomb (500kg) had a likely concluded penetration depth of 6m in sand or gravel but 11m in clay. The maximum observed depth for a 500kg bomb was 11.4m and for a 1,000kg bomb 12.8m. Theoretical calculations suggested that significantly greater penetration depths were probable.

10.4.3. Site Specific Bomb Penetration Considerations

When considering an assessment of the bomb penetration at the site of proposed works the following parameters have been used:

- WWII geology – Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (undifferentiated) Formation.
- Impact angle and velocity – 10-15° from vertical and 270 metres per second.
- Bomb mass and configuration – The 500kg SC HE bomb, without retarder units or armour piercing nose (this was the largest of the common bombs used against Britain).

It has not been possible to determine maximum bomb penetration capabilities at this stage due to the lack of site specific geotechnical information available. An assessment can be made once such information becomes available or by an UXO Specialist on-site.

10.5. V-Weapons

Hitler's 'V-weapon' campaign began from mid-1944. It used newly developed unmanned cruise missiles and rockets. The V-1 known as the *flying bomb* or *pilotless aircraft* and the V-2, a long range rocket, were launched from bases in Germany and occupied Europe. A total of 9,251 V-1s and 1,115 V-2s were recorded in the United Kingdom.

Although these weapons caused considerable damage their relatively low numbers allowed accurate records of strikes to be maintained. These records have mostly survived. There is a negligible risk from unexploded V-weapons on land today since even if the 1000kg warhead failed to explode, the weapons are so large that they would have been observed and dealt with at the time. Therefore, V-weapons are referenced in this report not as a viable risk factor, but primarily in order to help account for evidence of damage and clearance reported.

11. The Likelihood of Contamination from German Aerial Delivered UXBs

11.1. World War I

During WWI Britain was targeted and bombed by Zeppelin Airships as well as Gotha and Giant fixed-wing aircraft. A WWI map of air raids and naval bombardments across England is presented in **Annex I**. This source does not record any WWI bombing incidents to have affected the region of the site.

WWI bombs were generally smaller and dropped from a lower altitude than those used in WWII. This resulted in limited UXB penetration depths. Aerial bombing was often such a novelty at the time that it attracted public interest and even spectators to watch the raids in progress. For these reasons there is a limited risk that UXBs passed undiscovered in the urban environment. When combined with the relative infrequency of attacks and an overall low bombing density the risk from WWI UXBs is considered low and will not be further addressed in this report.

11.2. World War II Bombing of the Urban District of Havant and Waterloo

The Luftwaffe's main objective for the attacks on Britain was to inhibit the country's economic and military capability. To achieve this they targeted airfields, depots, docks, warehouses, wharves, railway lines, factories, and power stations. As the war progressed the Luftwaffe bombing campaign expanded to include the indiscriminate bombing of civilian areas in an attempt to subvert public morale.

During WWII the site was located within the Urban District of Havant and Waterloo, which sustained an overall Low-Medium density of bombing, as represented by bomb density data figures. This was mainly due to the presence of features such as Hayling Island, which hosted a number of decoy sites to draw bombing away from important naval infrastructure and a civil starfish decoy for nearby Portsmouth. (See Section 11.8 of this report for more information regarding these features.) Also close to the site, across the county borough into West Sussex, lay Thorney Island, a large RAF base of significant importance to the war effort, which was bombed on several occasions.

Records of bombing incidents in the civilian areas of the district were typically collected by Air Raid Precautions wardens and collated by Civil Defence personnel. Some other organisations, such as port and railway authorities, maintained separate records. Records would be in the form of typed or hand written incident notes, maps and statistics. Bombing data was carefully analysed, not only due to the requirement to identify those parts of the country most needing assistance, but also in an attempt to find patterns in the Germans' bombing strategy in order to predict where future raids might take place.

Records of bombing incidents for the district are presented in the following sections.

11.3. WWII Home Office Bombing Statistics

The following table summarises the quantity of German aerial delivered bombs (excluding 1kg incendiaries and anti-personnel bombs) dropped on the Urban District of Havant and Waterloo between 1940 and 1945.

Record of German Ordnance Dropped on the Urban District of Havant and Waterloo		
Area Acreage		12,074
Weapons	High Explosive bombs (all types)	375
	Parachute mines	39
	Oil bombs	9
	Phosphorus bombs	4
	Fire pots	0
	Pilotless aircraft (V-1)	1
	Long range rocket bombs (V-2)	0
Total		428
Number of Items per 1,000 acres		35.4

Source: Home Office Statistics

This table does not include UXO found during or after WWII.

Detailed records of the quantity and locations of the 1kg incendiary and anti-personnel bombs were not routinely maintained by the authorities as they were frequently too numerous to record. Although the risk relating to IBs is lesser than that relating to larger HE bombs, they were similarly designed to inflict damage and injury. Anti-personnel bombs were used in much smaller quantities and are rarely found today but are potentially more dangerous. Although Home Office statistics were not recorded, both types of item should not be overlooked when assessing the general risk to personnel and equipment.

11.4. Regional Air Raid Damage Files

Air Raid Damage files compiled by the Research and Experiments Branch of the Ministry of Home Security during WWII were consulted at The National Archives. These reports recorded information such as the date, time, type and damage caused by major bomb incidents in the region and are therefore not often comprehensive.

The records for Hampshire were checked for any reference to the site area. No relevant records were found, although there were several mentions of nearby Hayling Island being bombed.

11.5. Hampshire Local Bomb Incident ARP Records

Bomb incident records were obtained from Hampshire Archives and Local Studies. This record was compiled by local Air Raid Precaution (ARP) personnel and volunteers during the war. A transcript of the associated written records for bombs which fell in the site area is presented in the table below. An example of these entries are presented in **Annex J**.

Hampshire Air Raids in the Vicinity of the District 1939 - 1944 – Annex J	
Date Range	Comments
11 th /12 th March 1941	A bomb, believed to be a HE, or high explosive, is recorded within ‘ <i>the searchlight field at Langstone Road, Havant, causing some damage to buildings and telephone wires</i> ’.
19 th June 1942	UXB Report Searchlight Post Langstone RD Havant
19 th June 1942	Ref to AA Shells Langstone RD and New Lane Nurseries
19 th June 1942	Report of AA Shells and not UXB

11.6. Childhood Memories of Havant in the Second World War 1939 to 1945 by Ralph Cousins

This anecdotal published account of the war is supplemented by the diary of a local ARP Warden for Havant at the time. In a passage on ‘camps and other military matters’, the author asserts that ‘*the Anti-Aircraft Battery and Searchlight Emplacement was sited on the Langstone Road, where the Langstone Technology Park now is. The AA Battery was bombed on several occasions*’. This source also documents that ‘*A large number of High Explosive and Incendiary bombs were dropped on the Havant Area*’²

² <http://thespring.co.uk/media/3005/33-childhood-memories-of-havant-in-the-second-world-war-2.pdf>

11.7. WWII-Era Aerial Photography

A high-resolution scan of WWII-era aerial photography for the site area was obtained from the National Monuments Record Office (Historic England). This photograph provides a record of the potential composition of the site during the war, as well as its condition immediately following the war (see Annex L).

WWII-Era Aerial Photography – Annex L	
Date	Description
19 th April 1946	The site is shown to be largely occupied by open ground, allotment gardens, and other undeveloped land. A square, enclosed area in the north-eastern section of the site is believed to be a sewage works. A number of properties can also be seen within the north-western corner of the site around Brookside Road. Adjacent to the north-eastern border of the site several features indicative of Allied activity are visible. These features are indicative of the anti-aircraft searchlight emplacement and anti-aircraft battery referenced within local anecdotal sources and ARP written records. The appearance of the anti-aircraft battery is also indicative of a Light Anti-Aircraft (LAA) gun post. No obvious signs of bomb cratering or other damage attributable to damage can be seen within the site boundary. However, it should be noted that the ground cover is of poor quality, and the presence of such a large area of undeveloped vegetation makes it more likely that evidence indicative of the presence of UXO could have been obscured by the natural growth of vegetation or otherwise overlooked. In this regard, the date of the image, taken several years after the main period of bombing in the region, should also be taken into consideration. .

11.8. Introduction to WWII-era Bombing Decoy Sites

The decoy principal – drawing German bombers away from their designated targets onto dummy sites five or six miles away – began in WWI to protect RAF stations. In 1939, a new department was set up to investigate and coordinate the concept of defence by deception. A whole range of decoy sites were developed – some of them became very elaborate and covered large areas.

Common WWII Decoy Site Variants	
Decoy Type	Description
K-site	Daytime dummy airfield. Dummy aircraft and infrastructure.
Q-site	Night time dummy airfield. Intended to represent the working lights of an airfield after dark.
QL	Night time dummy infrastructure. Replicating the lights and workings of marshalling yards, naval installations, armament factories etc.
QF	Fire based decoy. Initially for aircraft factories, RAF maintenance units and ordnance works to simulate them on fire following bombing.
Oil QF	Simulation of burning oil tanks.
Starfish	Replicating a city under incendiary attack.

By June 1944, decoy sites had been attacked on 730 occasions. Attacks ranged from a single night-time bomber dropping its load onto a "Q" site, to the mass attacks on Starfish sites. In misleading air attacks away from intended targets they were responsible for protecting cities, key Allied installations and saved the lives of thousands of people.

As WWII decoys were specifically designed to be bombed, proposed works planned in the vicinity of such installations can be at an elevated risk from German aerial delivered UXBs. It was not uncommon for evidence of UXBs at a decoy site to be overlooked following an air raid. Given that such installations were on open ground, sometimes agricultural fields, UXB entry holes were not always evident.

11.8.1. Portsmouth Decoys

A number of naval and civil 'starfish' decoys were situated in the general vicinity of the site on North Binness Island and Hayling Island. The closest of these was situated approximately 2km to the south-west of the site on North Binness Island and were designed to draw bombing away from the important naval infrastructure at Portsmouth. See **Annex K** for mapping of nearby decoy sites.

The presence of these decoys is likely to have elevated the level of bombing in the local site area above the average of the district. Several air raid incident reports indicate that bombing occurred on Hayling Island, potentially indicating that these decoys were success.

11.9. Abandoned Bombs

A post air-raid survey of buildings, facilities, and installations would have included a search for evidence of bomb entry holes. If evidence of an entry hole was encountered, Bomb Disposal Officer Teams would normally have been requested to attempt to locate, render safe, and dispose of the bomb. Occasionally, evidence of UXBs was discovered but due to a relatively benign position, access problems, or a shortage of resources the UXB could not be exposed and rendered safe. Such an incident may have been recorded and noted as an 'abandoned bomb'.

Given the inaccuracy of WWII records and the fact that these bombs were 'abandoned', their locations cannot be considered definitive or the lists exhaustive. The MoD states that 'action to make the devices safe would be taken only if it was thought they were unstable'. It should be noted that other than the 'officially' abandoned bombs, there will inevitably be UXBs that were never recorded.

1st Line Defence holds no records of officially registered abandoned bombs at or near the site of the proposed works.

11.10. Bomb Disposal Tasks

The information service from the Explosive Ordnance Disposal (EOD) Archive Information Office at 33 Engineer Regiment (EOD) (now 29 Regt) is currently facing considerable delay. It has therefore not been possible to include any updated official information regarding bomb disposal/clearance tasks with regards to this site. A database of known disposal/clearance tasks has been referred to which does not make reference to such instances occurring within the site of proposed works. If any relevant information is received at a later date Delta Simons will be advised.

11.11. Evaluation of German Aerial Delivered UXO Records

Factors	Conclusion
Density of Bombing <i>It is important to consider the bombing density when assessing the possibility that UXBs remain in an area. High bombing density could allow for error in record keeping due to extreme damage caused to the area.</i>	During WWII, the site was situated within the Urban District of Havant and Waterloo, which sustained a low-moderate density of bombing. An average of 35.4 items of ordnance were recorded per 1,000 acres. An air raid incident recorded in March 1941 notes that a bomb, reported to be a HE, fell in a searchlight field at Langstone Road. Later incidents dated to June 1942 also indicate that a UXB and a number of anti-aircraft shells fell within the vicinity of Langstone Road. Anecdotal evidence notes that the anti-aircraft battery and searchlight was sited on the Langstone Road, 'where the Langstone Technology Park now is', this source also notes that this AA Battery was bombed on several occasions. This is supported by WWII-era aerial imagery, in which the remains of the searchlight and anti-aircraft battery can be seen adjacent to the north-eastern border of the proposed area of works.
Damage <i>If buildings or structures on a site sustained bomb or fire damage any resulting rubble and debris could have obscured the entry holes of unexploded bombs dropped during the same or later raids. Similarly, a high explosive bomb strike in an area of open agricultural land will have caused soil disturbance, increasing the risk that a UXB entry hole would be overlooked.</i>	No obvious signs of bomb cratering or other damage attributable to damage can be seen within the site boundary on 1947 aerial imagery. However, it should be noted that the presence of such a large area of undeveloped vegetation makes it more likely that evidence indicative of the presence of UXO could have been obscured or otherwise overlooked. Furthermore, the entry hole of an unexploded bomb can be as little as 20cm in diameter in such ground conditions (see Annex G).



Access Frequency <i>UXO in locations where access was irregular would have a greater chance of passing unnoticed than at those that were regularly occupied. The importance of a site to the war effort is also an important consideration as such sites are likely to have been both frequently visited and subject to post-raid checks for evidence of UXO.</i>	During WWII, the site was primarily composed open land, as well as a number of small residential, structures and a sewage works. An anti-aircraft battery and a searchlight was also located within the immediate vicinity of the site. Access to large areas of open ground is generally considered to have been infrequent. Although the properties located within the north-western corner of the site may have been regularly accessed, this is unlikely to have provided the whole site with a sufficient degree of monitor, given its size. It is also not known how often the frequently the sewage works, in the north-east of the site, would have been accessed. While the anti-aircraft battery and searchlight are likely to have been frequently accessed during the war period, especially during active raids, this is not likely to have had a significant impact on the level of access across most of the site given that these features had been separated from the main body of the site by the Mills Stream, and the size of the proposed site.
Ground Cover <i>The nature of the ground cover present during WWII would have a substantial influence on any visual indication that may indicate UXO being present.</i>	Given the open, rural nature of the ground cover within much of the site and immediate area, it is not considered likely that the ground cover would have been conducive to the observation of evidence of UXO. Features such as disturbed ground or cratering could easily have been overlooked or obscured by the natural growth of vegetation.
Bomb Failure Rate	There is no evidence to suggest that the bomb failure rate in the locality of the site would have been dissimilar to the 10% normally used.
Abandoned Bombs	1st Line Defence holds no records of abandoned bombs at or within the site vicinity.
Bombing Decoy sites	1st Line Defence has identified a number of decoys, both naval and one civil starfish for Portsmouth, situated to the south of the site on North Binness Island and Hayling Island. The closest of these was situated approximately 2km to the south-west of the site. (See Section 11.8).
Bomb Disposal Tasks	1st Line Defence could find no evidence of bomb disposal tasks within the site boundary and immediate area.

12. Introduction to Allied Explosive Ordnance

12.1. General

Many areas across the UK may be at risk from Allied UXO because of both wartime and peacetime military use. Typical military activities and uses that may have led to a legacy of military UXO at a site include former minefields, home guard positions, anti-aircraft emplacements, training and firing ranges, military camps, as well as weapons manufacture and storage areas.

Although land formerly used by the military were usually subject to clearance before they returned to civilian use, items of UXO are sometimes discovered and can present a potential risk to construction projects.

12.2. Land Service Ammunition

At least one published source indicates that an anti-aircraft battery was situated on or in the immediate vicinity of the site, as it is believed to have been located at the site of the current Langstone Technology Park. This type of feature can be associated with the storage or usage of LSA.

The term LSA covers items of ordnance that are propelled, placed, or thrown during land warfare. These items may be filled or charged with explosives, smoke, incendiary, or pyrotechnics and can be divided into five main groups:

Land Service Ammunition	
Item	Description
Mortar Rounds	A mortar round is normally nosed-fused and fitted with its own propelling charge. Its flight is stabilised by the use of a fin. They are usually tear-drop shaped (though older variants are parallel sided), with a finned 'spigot tube' screwed or welded to the rear end of the body which houses the propellant charge. Mortars are either High Explosive or Carrier (i.e. smoke, incendiary, or pyrotechnic).
Grenades	A grenade is a short range weapon designed to kill or injure people. It can be hand thrown or fired from a rifle or a grenade launcher. Grenades either contain high explosive or smoke producing pyrotechnic compounds. The common variants have a classic 'pineapple' shape.
Projectiles	A projectile (or shell) is propelled by force, normally from a gun, and continues in motion using its kinetic energy. The gun a projectile is fired from usually determines its size. A projectile contains a fuzing mechanism and a filling. Projectiles can be high explosive, carrier or Shot (a solid projectile).
Rockets	Rockets were commonly designed to destroy heavily armoured military vehicles (anti-tank weapon). The device contains an explosive head (warhead) that can be accelerated using internal propellants to an intended target. Anti-aircraft rocket batteries were also utilised as part of air defence measures.
Landmines	A landmine is designed to be laid on or just below the ground to be exploded by the proximity; or contact of a person or vehicle. Landmines were often placed in defensive areas of the UK to obstruct potential invading adversaries.

In the UK unexploded or partially exploded mortars and grenades are the most common items of LSA encountered, as they could be transported and utilised anywhere. They are mostly encountered in areas used for military training and are often found discarded on or near historical military bases. Images of the most commonly found items of LSA are presented in **Annex M**.

12.3. Small Arms Ammunition

The most common type of ordnance encountered on land used by the military are items of Small Arms Ammunition (SAA). SAA refers to the complete round or cartridge designed to be discharged from varying sized hand-held weapons such as rifles, machine guns and pistols. SAA can include bullets, cartridge cases and primers/caps. (See **Annex O** for example imagery.)

12.4. Defending the UK From Aerial Attack

During WWII the War Office employed a number of defence tactics against the Luftwaffe from bombing major towns, cities, manufacturing areas, ports and airfields. These can be divided into passive and active defences (examples are provided in the table below).

Active Defences	Passive Defences
• Anti-aircraft gun emplacements to engage enemy aircraft. • Fighter aircraft to act as interceptors. • Rockets and missiles were used later during WWII.	• Blackouts and camouflaging to hinder the identification of Luftwaffe targets. • Decoy sites were located away from targets and used dummy buildings and lighting to replicate urban, military, or industrial areas. • Barrage balloons forced enemy aircraft to greater altitudes. • Searchlights were often used to track and divert adversary bomber crews during night raids.

Active defences such as anti-aircraft artillery present a greater risk of UXO contamination than passive defences. Unexploded ordnance resulting from dogfights and fighter interceptors is rarely encountered and difficult to accurately qualify.

12.4.1. Anti-Aircraft Artillery (AAA)

During WWII three main types of gun sites existed: heavy anti-aircraft (HAA), light anti-aircraft (LAA) and 'Z' batteries (ZAA). If the projectiles and rockets fired from these guns failed to explode or strike an aircraft they would descend back to land. The table below provides further information on the operation and ordnance associated with these type of weapons.

Anti-Aircraft Artillery				
Item	Description			
HAA	These large calibre guns such as the 3.7" QF (Quick Firing) were used to engage high flying enemy bombers, They often fired large HE projectiles, which were usually initiated by integral fuzes triggered by impact, area, time delay or a combination of aforementioned mechanisms.			
LAA	These mobile guns were intended to engage fast, low flying aircraft. They were typically rotated between locations on the perimeters of towns and strategically important industrial works. As they could be moved to new positions with relative ease when required, records of their locations are limited. The most numerous of these were the 40mm Bofors gun which could fire up to 120 x 40mm HE projectiles per minute to over 1,800m.			
Variations in HAA and LSA Ammunition	Gun type	Calibre	Shell Weight	Shell Dimensions
	3.0 Inch	76mm	7.3kg	76mm x 356mm
	3.7 Inch	94mm	12.7kg	94mm x 438mm
	4.5 Inch	114mm	24.7kg	114mm x 578mm
	40mm	40mm	0.9kg	40mm x 311mm
Z-AA	The three inch unrotated rocket/projectile known as the UP-3 had initially been developed for the Royal Navy. The UP-3 was also used in ground-based single and 128-round launchers known as "Z" batteries. The rocket, containing a high explosive warhead was often propelled by cordite.			

The closest recorded HAA to the site was located approximately 2.3km south-east of the site, however the range of a projectile can be up to 15km. The site would also have been in range of mobile light anti-aircraft guns.

The conditions in which anti-aircraft projectiles may have fallen unnoticed within a site area are analogous to those regarding aerial delivered ordnance. Unexploded anti-aircraft projectiles could essentially have fallen indiscriminately anywhere within range of the guns. The chance of such items being observed, reported and removed during the war depends on factors such as land use, ground cover, damage and frequency of access – the same factors that govern whether evidence of a UXB is likely to have been noted. More information about these factors with regards to this particular site can be found in the German Aerial Delivered Ordnance section of this report.

Illustrations of Anti-Aircraft artillery, projectiles and rockets are presented at **Annex P**.

13. The Likelihood of Contamination from Allied Ordnance

13.1. Introduction

When undertaking construction work within or immediately adjacent to a site with previous and/or current military use, it is often considered likely to contain an elevated risk of contamination from Allied UXO. This assumption of risk is based on the following reasoning:

- The clearance of ordnance from military camps, depots, storage facilities, ranges and training areas were not always effectively managed, or undertaken to equivalent degrees of certainty. In addition, search and detection equipment used over seventy years ago following WWII has proved ineffective both for certain types of UXO and at depths beyond capability.
- In the vast majority of cases, explosive ordnance would have been stored and available for use at military installations. Ordnance ranged from small arms and land service ammunition to weapons components and larger, aerial delivered items. During periods of heightened activity, ordnance was also frequently lost in transit, particularly between stores and assigned training locations.
- The military generally did not anticipate that their land would be later sold for civilian development, and consequently appropriate ordnance disposal procedure was not always adhered to. It was not uncommon for excess or unwanted ordnance to be buried or burnt within the perimeters of a military establishment as a means of disposal. Records of such practice were rarely kept.

There are several factors that may serve to either affirm, increase, or decrease the level of risk within a site with a history of military usage. Such factors are typically dependent upon the proximity of the proposed area of works to training activities, munition productions and storage, as well as its function across the years.

This section will examine the history of the proposed site and assess to what degree, if any, the site could have become contaminated as a result of the military use of the surrounding area.

13.2. Evaluation of Contamination Risk from Allied UXO

1st Line Defence has considered the following potential sources of Allied ordnance contamination:

Sources of Allied UXO Contamination	Conclusion
Military Camps <i>Military camps present an elevated risk from ordnance simply due to the large military presence and likelihood of associated live ordnance training.</i>	1 st Line Defence could find no evidence of a military camp within the site.
Anti-Aircraft Defences <i>Anti-Aircraft defences were employed across the country. Proximity to anti-aircraft defences increases the chance of encountering AA projectiles.</i>	Evidence suggests that an anti-aircraft battery and searchlight was located adjacent to the north-eastern boundary of the site. Searchlight emplacements generally comprised a small circular ditch to provide personnel with shelter during an air raid, a predictor emplacement to calculate the height and range of a target, a light anti-aircraft machine gun pit, a generator and accommodation for the crew. During WWII searchlights were manned by the Royal Artillery and were under the control of the Army's Anti-Aircraft Command. The closest HAA was located approximately 2.3km south-east of the site, however the range of a projectile can be up to 15km. The



	conditions in which HAA or LAA projectiles may have fallen unnoticed within a site footprint are analogous to those regarding German aerial delivered ordnance.
Home Guard Activity <i>The Home Guard regularly undertook training and ordnance practice in open areas, as well as burying ordnance as part of anti-invasion defences.</i>	1 st Line Defence has no evidence of any Home Guard activities on the site.
Defensive Positions <i>Defensive positions suggest the presence of military activity, which is often indicative of ordnance storage, usage or disposal.</i>	There is no evidence of any defensive features formerly located on or bordering the site footprint. A number of decoy sites for Portsmouth were, however, located to the south of the site, on North Binness Island and Hayling Island.
Training or firing ranges <i>Areas of ordnance training saw historical ordnance usage in large numbers, often with inadequate disposal of expended and live items. The presence of these ranges significantly impact on the risk of encountering items of ordnance in their vicinity.</i>	There is no evidence of such features affecting the site.
Defensive Minefields <i>Minefields were placed in strategic areas to defend the country in the event of a German invasion. Minefields were not always cleared with an appropriate level of vigilance.</i>	There is no evidence of defensive minefields affecting the site.
Ordnance Manufacture <i>Ordnance manufacture indicates an increased chance that items of ordnance were stored, or disposed of, within a location.</i>	No information of ordnance being stored, produced, or disposed of within the proposed site could be found.
Military Related Airfields <i>Military airfields present an elevated risk from ordnance simply due to the large military presence and likelihood of associated live ordnance training or bombing practice.</i>	The site was not situated within the perimeters or vicinity of a military airfield.

14. The Likelihood of UXO Contamination Summary

The following table assesses the likelihood that the site was contaminated by items of German aerial delivered and Allied ordnance. Factors such as the risk of UXO initiation, remaining, and encountering will be discussed later in the report.

UXO Contamination Summary	
Quality of the Historical Record	The research has evaluated pre and post-WWII Ordnance Survey maps, historical oblique imagery, a map of decoy sites in Portsmouth, regional air raid damage files, Hampshire local incident records, relevant published sources and WWII-era aerial imagery. The record set is of generally good quality. Consulted record sets each indicate that a number of bomb had fallen at the location of a searchlight emplacement and an anti-aircraft battery located on Langstone Road. Both anecdotal information and WWII-era photography indicates that this battery was located within the immediate vicinity of the site and providing a good account of the site's wartime conditions.
German Aerial Delivered Ordnance	After considering the following facts, 1st Line Defence has assessed that there is a Medium-Risk that items of unexploded German air-delivered ordnance and anti-aircraft ordnance could have fallen unnoticed and unrecorded within the site boundary. A Low-Medium Risk has been assessed from LSA/SAA. - During WWII, the site was located within the Urban District of Havant and Waterloo. Home Office statistics suggest that Havant and Waterloo endured an overall low-moderate density of bombing with an average of 35.4 item of ordnance recorded per 1,000 acres. This density can largely be attributed to a number of bombing decoy sites situated on the Binness and Hayling Islands, which were designed to draw bombing away from civil and military targets within Portsmouth. - Consulted records indicate that these decoys were successful on a number of occasions. The closest of which is mapped as a QL naval bombing decoy located approximately 2km south-west of the proposed site. It should be noted that areas situated within the vicinity of Luftwaffe targets, such as decoy sites, were often also bombed owing to the limitations of WWII-era technology and the difficulty associated with finding a specific target within black-out conditions for enemy bombers. - Bombing incident records, obtained from the Hampshire Archives and Local Studies, indicates that a bomb, suspected to be a HE bomb, fell within a 'searchlight field' located at Langstone Road in March of 1941. A UXB and number of AA shells are also recorded to have fallen within this area in 1942. - Anecdotal information, retained from a published civilian account of the war, locates the anti-aircraft battery and searchlight emplacement on Langstone Road to have been situated at the site of proposed works '<i>where the Langstone Technology Park now is</i>'. This source also documents that the AA Battery was '<i>bombed on several occasions</i>'. It is therefore possible that additional bomb strikes may have occurred on or near the site boundary that are not covered within any of the consulted local ARP records. - The presence of this feature is largely corroborated by WWII-era aerial photography of the site dated to 1946. In this image the site is primarily composed of open land, as well as allotment gardens, several smaller structures in the north-west, and a sewage works. Adjacent to the north-eastern border of the site, several features can be seen which are indicative of the aforementioned searchlight emplacement and anti-aircraft battery. - No obvious evidence of bomb damage, such as disturbed ground or cratering, is obviously visible within the 1947 image. However, evidence of UXO may easily be obscured within the ground conditions present within the site, particularly areas of open land and vegetation. Moreover, the war-time access to much of



	the site is not anticipated to have been frequent, which may result in signs of UXO going unobserved. It is not thought likely that signs of UXB's would have been noticed within these conditions. Given the proximity of a number of bombing decoys and the number of bombing incidents recorded specifically in the site's immediate vicinity, as well as the poor ground conditions and lack of regular access within the site, it has not been possible to mitigate the risk that UXB's could have potentially fallen within the proposed site unrecorded.
Allied Ordnance	- Anecdotal information and WWII-era aerial photography indicates that a searchlight emplacement and an anti-aircraft battery had been situated within the sites immediate vicinity. The appearance of the anti-aircraft battery is indicative of a Light Anti-Aircraft (LAA) gun position and billeting for a relevant searchlight regiment, which often accompanied searchlight emplacements. It is also possible that members of the Home Guard could have operated in conjunction with this facility. - Subsequently, it is possible that related items of Allied ordnance (LSA/SAA) could have been stored or disposed of within the east of site and its surrounding areas, in particular within the eastern extension of the site located adjacent to the searchlight and battery. However, this risk is considered unlikely given that the Mill Stream separated these Allied features from the main body of the site and the location of the Sewage works. - Consequently, while the positioning of these Allied features is considered to elevate the risk of encountering Allied items of ordnance on site, the risk is not considered to be significant enough to be deemed a 'Medium' risk. - The conditions in which HAA or LAA projectiles may have fallen unnoticed within the site boundary are however analogous to those regarding aerial delivered ordnance.

15. The Likelihood that UXO Remains

15.1. Introduction

It is important to consider the extent to which any explosive ordnance clearance (EOC) activities or extensive ground works have occurred on site. This may indicate previous ordnance contamination or reduce the risk that ordnance remains undiscovered.

15.2. UXO Clearance

Former military sites (or at least certain areas within their footprint) are often subject to clearance before they are returned to civilian use by the MoD. If a site is retained by the military, it is possible that no clearance operations have ever been undertaken. However, UXO is sometimes still discovered even on sites where clearance operations are known to have been undertaken. The detail and level of survey and targeted investigation undertaken by the military will depend on the former use of the site and purpose of the clearance (i.e. disposal, redevelopment, return to agriculture, etc.).³ The level of clearance will also depend on the available technology, resources and practices of the day.

It therefore cannot be assumed that the risk of UXO remaining has been completely mitigated, even though EOC tasks have been undertaken at a former military site.

If such information is available at a later date, it is recommended that it be reviewed as it will assist with understanding both levels and types of contamination likely to be present, and may indicate risk reduction in certain areas.

15.3. Post-war Redevelopment

Post-war redevelopment of the site has included the removal of the sewage works and the subsequent development of Langstone Technology Park within the site, consisting of multi-storied structures and hard standing in use for car parking. Significant development has also taken place around the site, including the construction of road infrastructure, community infrastructure and residential housing.

The risk of UXO remaining is considered to be substantially mitigated at the depths and locations of these post-war foundation and excavation works.

16. The Likelihood of UXO Encounter

16.1. Introduction

For UXO to pose a risk at a site, there should be a means by which any potential UXO might be encountered on that site.

The likelihood of encountering UXO on the site of proposed would depend on various factors, such as the type of UXO that might be present and the intrusive works planned on site. In most cases, UXO is more likely to be present below surface (buried) than on surface.

In general, the greater the extent and depth of intrusive works, the greater the risk of encountering. The most likely scenarios under which items of UXO could be encountered during construction works is during piling, drilling operations or bulk excavations for basement levels. The overall risk will depend on the extent of the works, such as the numbers of boreholes/piles (if required) and the volume of the excavations.

³ CIRIA C681

16.2. Encountering Aerial Delivered Ordnance

Since an aerial delivered bomb may come to rest at any depth between just below ground level and its maximum penetration depth, there is a chance that such an item (if present) could be encountered during shallow excavations (for services or site investigations) into the original WWII ground level as well as at depth.

16.3. Land Service/Small Arms Ammunition Encounter

Items of LSA and SAA are mostly encountered in areas previously used for military training. Such items could have been lost, burnt, buried or discarded during being in use by the military. Due to this, LSA are most likely to be encountered at relatively shallow depths – generally in the top 1m below ground level. Therefore, such items are most likely to be encountered during open excavation works. In some cases, there is the potential that LSA or SAA may be present on the surface of the ground – especially in areas with active military use or were recently in use by the MoD.

17. The Likelihood of UXO Initiation

17.1. Introduction

UXO does not spontaneously explode. Older UXO devices will require an external event/energy to create the conditions for detonation to occur. The likelihood that a device will function can depend on a number of factors including the type of weaponry, its age and the amount of energy it is struck with.

17.2. Initiating Aerial Delivered Ordnance

Unexploded bombs do not spontaneously explode. All high explosive filling requires significant energy to create the conditions for detonation to occur.

In recent decades, there have been a number of incidents in Europe where Allied UXBs have detonated, and incidents where fatalities have resulted (some examples are presented in **Annex H**). There have been several hypotheses as to the reason why the issue is more prevalent in mainland Europe – reasons could include the significantly greater number of bombs dropped by the Allied forces on occupied Europe, the preferred use by the Allies of mechanical rather than electrical fuzes, and perhaps just good fortune. The risk from UXO in the UK is also being treated very seriously in many sectors of the construction industry, and proactive risk mitigation efforts will also have affected the lack of detonations in the UK.

There are certain construction activities which make initiation more likely, and several potential initiation mechanisms must be considered:

UXB Initiation	
Direct Impact	Unless the fuze or fuze pocket is struck, there needs to be a significant impact e.g. from piling or large and violent mechanical excavation, onto the main body of the weapon to initiate a buried iron bomb. Such violent action can cause the bomb to detonate.
Re- starting the Clock	A small proportion of German WWII bombs employed clockwork fuzes. It is probable that significant corrosion would have taken place within the fuze mechanism over the last 70+ years that would prevent clockwork mechanisms from functioning. Nevertheless, it was reported that the clockwork fuze in a UXB dealt with by 33 EOD Regiment in Surrey in 2002 did re-start.
Friction Impact	The most likely scenario resulting in the detonation of a UXB is friction impact initiating the shock-sensitive fuze explosive. The combined effects of seasonal changes in temperature and general degradation over time can cause explosive compounds to crystallise and extrude out from the main body of the bomb. It may only require a limited amount of energy to initiate the extruded explosive which could detonate the main charge.

17.3. Land Service /Small Arms Ammunition Initiation

Items of LSA generally do not become inert or lose their effectiveness with age. Time can cause items to become more sensitive and less stable. This applies equally to items submerged in water or embedded in silts, clays, or similar materials. The greatest risk occurs when an item of ordnance is struck or interfered with. This is likely to occur when mechanical equipment is used or when unqualified personnel pick up munitions.

If left alone, an item of LSA will pose little/no risk of initiation. Therefore, if it is not planned to undertake construction/intrusive works at the site, the risk of initiation of any LSA that may be present would be negligible. Similarly, those accessing a contaminated area would be at minimal risk if they do not interfere with any UXO present on the ground. Clearly for many end uses however, the presence of UXO anywhere on a site would not be acceptable as it could not be guaranteed that the items will not be handled, struck or otherwise affected, increasing the likelihood of initiation.

Items of SAA are much less likely to detonate than LSA or UXBs, but can be accidentally initiated by striking the casing, coming into contact with fire, or being tampered with/dismantled. It is likely that the detonation of an item of SAA would result in a small explosion, as the pressure would not be contained within a barrel. Detonation would only result in local overpressure and very minor fragmentation from the cartridge case.

18. Consequences of Initiation/Encounter

18.1. Introduction

The repercussions of the inadvertent detonation of UXO during intrusive ground works, or if an item or ordnance is interfered with or disturbed, are potentially profound, both in terms of human and financial cost. A serious risk to life and limb, damage to plant and total site shutdown during follow-up investigations are potential outcomes. However, if appropriate risk mitigation measures are put in place, the chances of initiating an item of UXO during ground works is comparatively low.

The consequences of encountering UXO can be particularly notable in the case of high-profile sites (such as airports and train stations) where it is necessary to evacuate the public from the surrounding area. A site may be closed for anything from a few hours to a week with potentially significant cost in lost time. It should be noted that even the discovery of suspected or possible item of UXO during intrusive works (if handled solely through the authorities), may also involve significant loss of production

18.2. Consequences of Detonation

When considering the potential consequences of a detonation, it is necessary to identify the significant receptors that may be affected. The receptors that may potentially be at risk from a UXO detonation on a construction site will vary depending on the site specific conditions but can be summarised as follows:

- People – site workers, local residents and general public.
- Plant and equipment – construction plant on site.
- Services – subsurface gas, electricity, telecommunications.
- Structures – not only visible damage to above ground buildings, but potentially damage to foundations and the weakening of support structures.
- Environment – introduction of potentially contaminating materials.

19. 1st Line Defence Risk Assessment

19.1. Risk Assessment Stages

Taking into account the quality of the historical evidence, the assessment of the overall risk from unexploded ordnance is based on the following five considerations:

1. That the site was contaminated with unexploded ordnance.
2. That unexploded ordnance remains on site.
3. That such items will be encountered during the proposed works.
4. That ordnance may be initiated by the works operations.
5. The consequences of encountering or initiating ordnance.

19.2. Assessed Risk Level

1st Line Defence has assessed that there is an overall **Medium Risk** from German and anti-aircraft unexploded ordnance at the site of proposed works. There is also an assessed **Low-Medium-Risk** from Allied ordnance.

Ordnance Type	Risk Level			
	Negligible	Low	Medium	High
German Unexploded HE Bombs			✓	
German 1kg Incendiary Bombs			✓	
Allied Anti-Aircraft Artillery Projectiles			✓	
Allied Land Service and Small Arms Ammunition		✓		

20. Proposed Risk Mitigation Methodology

20.1. General

The following risk mitigation measures are recommended to support the proposed works at Langstone Technology Park:

Type of Work	Recommended Mitigation Measure
All Works	UXO Risk Management Plan It is recommended that a site-specific plan for the management of UXO risk be written for this site. This plan should be kept on site and be referred to in the event that a suspect item of UXO is encountered at any stage of the project. It should detail the steps to be taken in the event of such a discovery, considering elements such as communication, raising the alarm, nominated responsible persons etc. Contact 1st Line Defence for help/more information. Site Specific UXO Awareness Briefings to all personnel conducting intrusive works. As a minimum precaution, all personnel working on the site should be briefed on the basic identification of UXO and what to do in the event of encountering a suspect item. This should in the first instance be undertaken by a UXO Specialist. Posters and information on the risk of UXO can be held in the site office for reference.
Shallow Intrusive Works/Open Excavations	Unexploded Ordnance (UXO) Specialist Presence on Site to support shallow intrusive works When on site the role of the UXO Specialist would include: - Monitoring works using visual recognition and instrumentation, including immediate response to reports of suspicious objects or suspected items of ordnance that have been recovered by the ground workers on site. - Providing UXO awareness briefings to any uninformed staff and advise staff of the need to modify working practices to take account of the ordnance risk. - To aid incident management which would involve liaison with the local authorities and police should ordnance be identified and present an explosive hazard.
Borehole/Piles	Intrusive Magnetometer Survey of all borehole and pile locations down to a maximum bomb penetration depth: 1st Line Defence can deploy a range of intrusive magnetometer techniques to clear pile locations. The appropriate technique is influenced by a number of factors, but most importantly the site's ground conditions. The appropriate survey methodology would be confirmed once the enabling works have been completed.

In making this assessment and recommending these risk mitigation measures, if known, the works outlined in the 'Scope of the Proposed Works' section were considered. Should the planned works be modified or additional intrusive engineering works be considered, 1st Line Defence should be consulted to see if a re-assessment of the risk or mitigation recommendations is necessary.

1st Line Defence Limited

28th May 2019

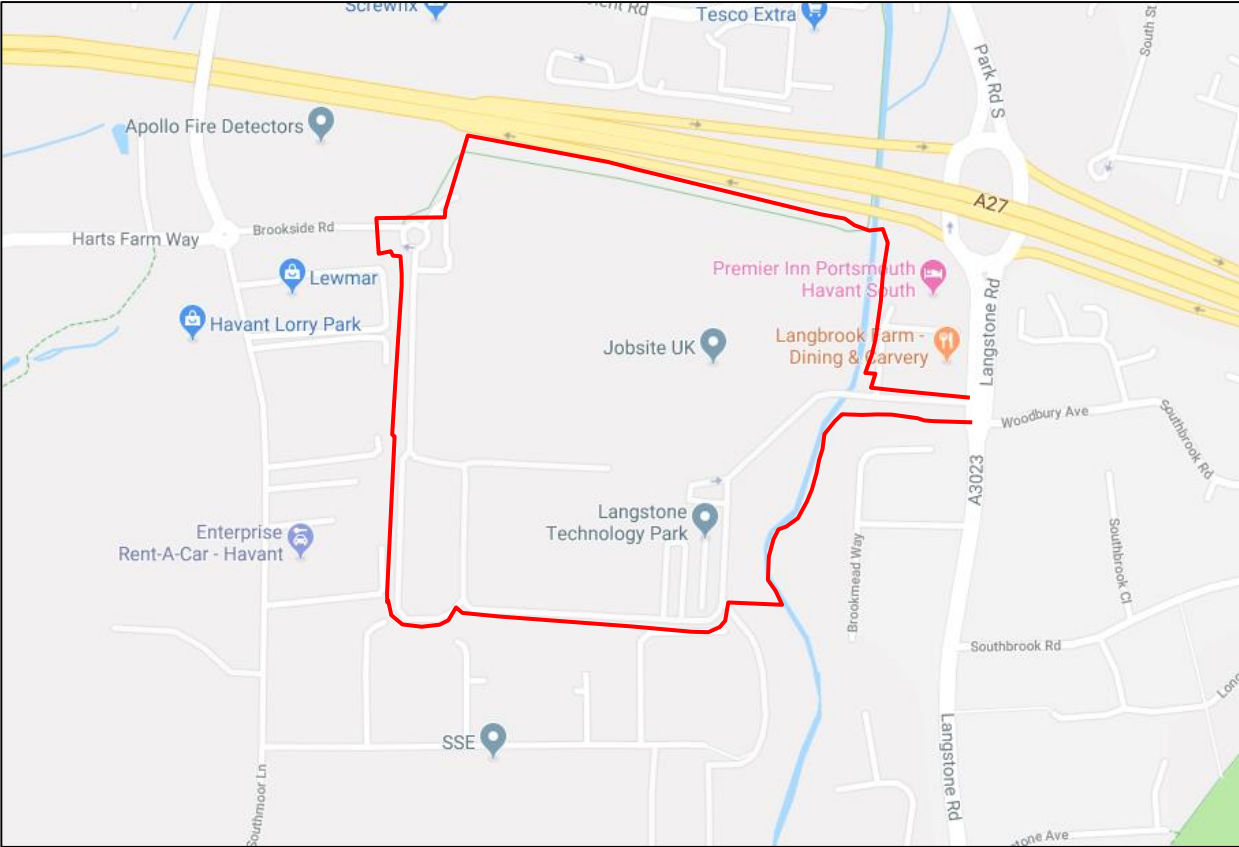
This Report has been produced in compliance with the Construction Industry Research and Information Association (CIRIA) C681 guidelines for the writing of Detailed UXO Risk Assessments.

Bibliography

- Bates, H. E., *Flying Bombs over England*, Frogletts Publications Ltd., 1994
- Dobinson, C., *AA Command: Britain's Anti-Aircraft Defences of the Second World War*, Methuen., 2001
- Fegan, T., *The 'Baby Killers': German Air raids on Britain in the First World War*, Leo Cooper Ltd., 2002
- Fleischer, W., *German Air-Dropped Weapons to 1945*, Midland Publishing., 2004
- Jappy, M. J., *Danger UXB: The Remarkable Story of the Disposal of Unexploded Bombs during the Second World War*, Channel 4 Books., 2001
- Morris, J., *German Air Raids on Britain: 1914 – 1918*, The Naval & Military Press., 1993
- Price, A., *Blitz on Britain, The Bomber Attacks on the United Kingdom 1939 – 1945*, Purnell Book Services Ltd., 1977
- Ramsey, W., *The Blitz Then and Now, Volume 1*, Battle of Britain Prints International Ltd., 1987
- Ramsey, W., *The Blitz Then and Now, Volume 2*, Battle of Britain Prints International Ltd., 1988
- Ramsey, W., *The Blitz Then and Now, Volume 3*, Battle of Britain Prints International Ltd., 1990
- Scofield, J., *Modern Military Matters.*, Council for British Archaeology., 2004
- Stone, K., et al., *Unexploded Ordnance (UXO) A Guide For The Construction Industry (C681).*, CIRIA, 2009
- Whiting, C., *Britain Under Fire: The Bombing of Britain's Cities 1940-1945*, Pen & Sword Books Ltd., 1999

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1ST LINE DEFENCE

Unit 3, Maple Park
Essex Road, Hoddesdon,
Hertfordshire. EN11 0EX
Email: info@1stlinedefence.co.uk
Tel: +44 (0)1992 245 020

Client: **Delta Simons**

Project: **Langstone Technology Park**

Ref: **DA8760-00**

Source: Google Maps

 **Approximate site boundary**





1ST LINE DEFENCE

Unit 3, Maple Park
Essex Road, Hoddesdon,
Hertfordshire. EN11 0EX
Email: info@1stlinedefence.co.uk
Tel: +44 (0)1992 245 020

Client: **Delta Simons**

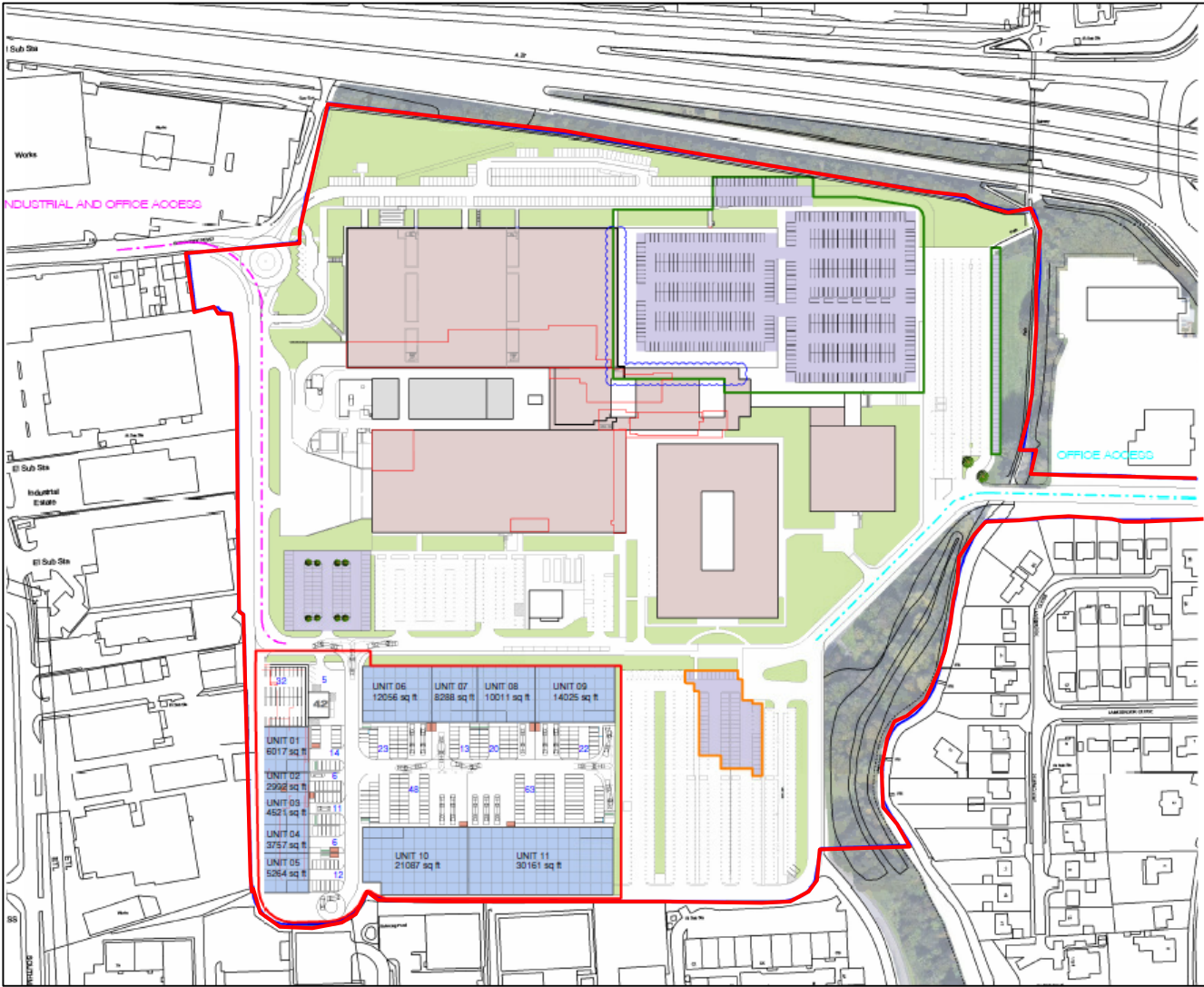
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Source: Google Earth™ Mapping Services

 **Approximate site boundary**





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Hertfordshire. EN11 0EX
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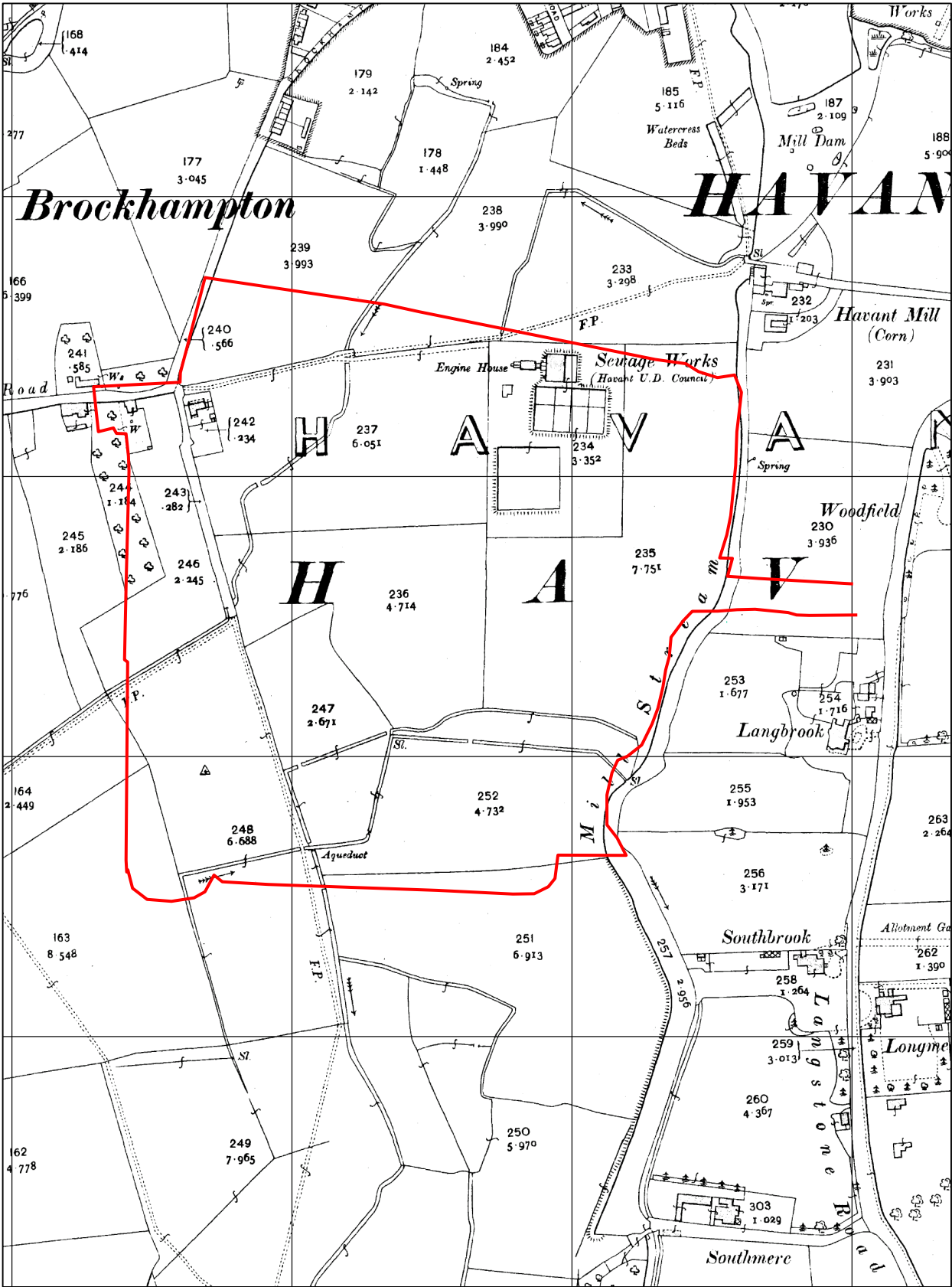
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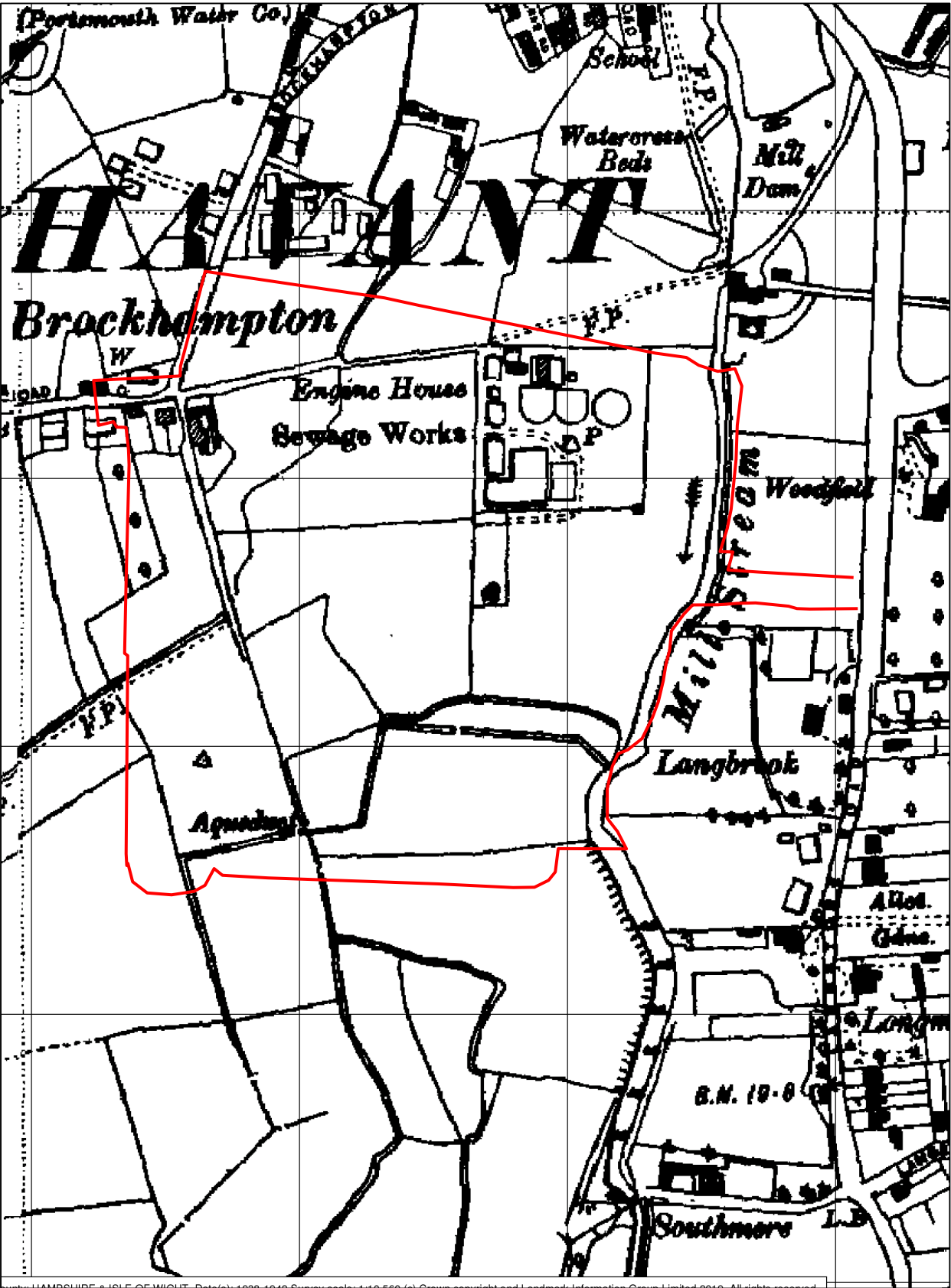
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— Approximate site boundary





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Hertfordshire. EN11 0EX
Email: info@1stlinedefence.co.uk
Tel: +44 (0)1992 245 020

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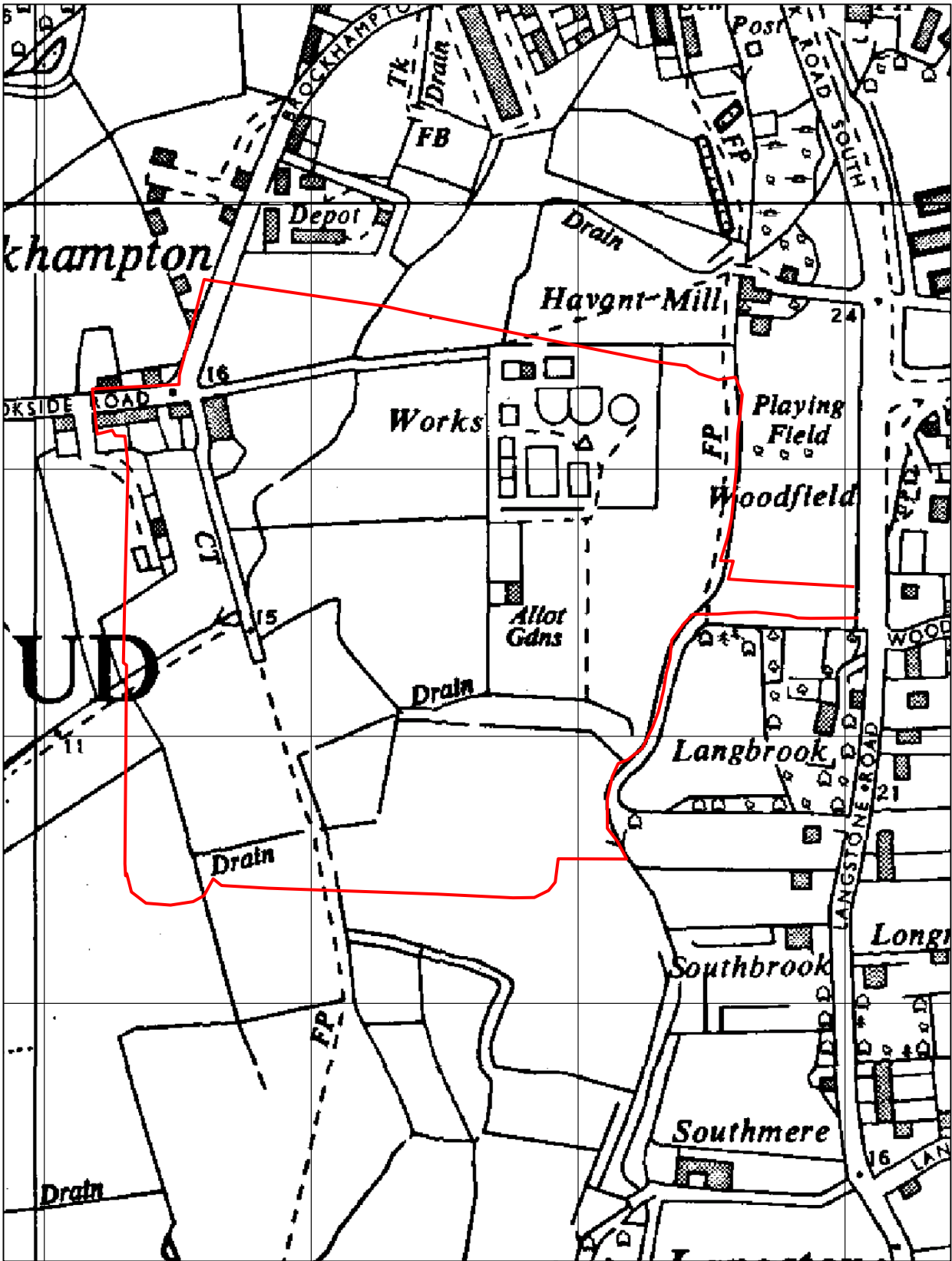
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Source: **Landmark Maps**

 **Approximate site boundary**





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Hertfordshire. EN11 0EX
Email: info@1stlinedefence.co.uk
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Source: **Landmark Maps**

 **Approximate site boundary**



Havant Sewage Works, Havant, 1928



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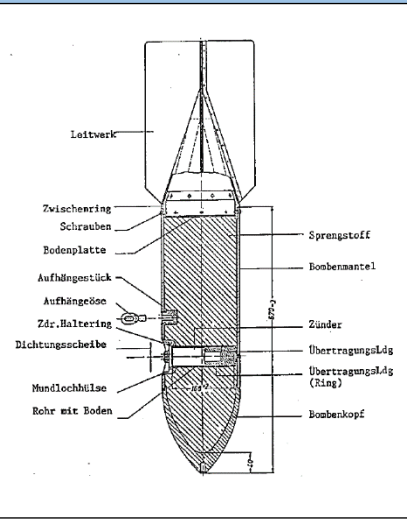
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Tel: +44 (0)1992 245 020

Client: Delta Simons	
Project: Langstone Technology Park	
Ref: DA8760-00	Source: Britain From Above"

Examples of German Air-Delivered Ordnance

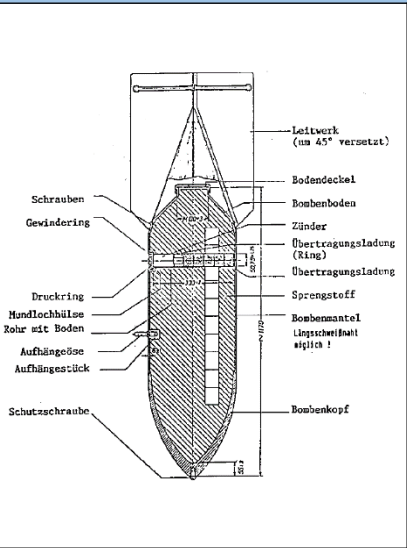
SC 50kg High Explosive Bomb

Bomb Weight	40-54kg (88-119lb)
Explosive Weight	25kg (55lb)
Fuze Type	Impact fuze/electro-mechanical time delay fuze
Bomb Dimensions	1,090 x 280mm (42.9 x 11.0in)
Body Diameter	200mm (7.87in)
Use	Against lightly damageable materials, hangars, railway rolling stock, ammunition depots, light bridges and buildings up to three stories.
Remarks	The smallest and most common conventional German bomb. Nearly 70% of bombs dropped on the UK were 50kg.



SC 250kg High Explosive Bomb

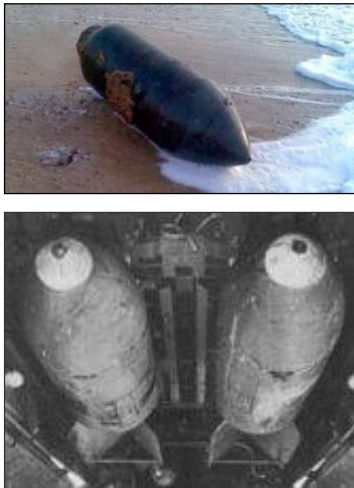
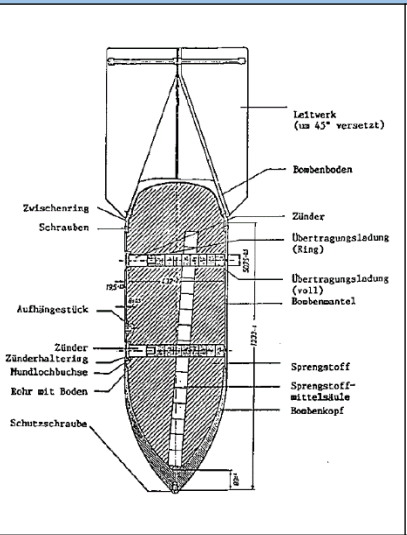
Bomb Weight	245-256kg (540-564lb)
Explosive Weight	125-130kg (276-287lb)
Fuze Type	Electrical impact/mechanical time delay fuze.
Bomb Dimensions	1640 x 512mm (64.57 x 20.16in)
Body Diameter	368mm (14.5in)
Use	Against railway installations, embankments, flyovers, underpasses, large buildings and below-ground installations.
Remarks	It could be carried by almost all German bomber aircraft, and was used to notable effect by the Junkers Ju-87 Stuka (Sturzkampfflugzeug or dive-bomber).



SC250 bomb being loaded onto German bomber

SC 500kg High Explosive Bomb

Bomb Weight	480-520kg (1,058-1,146lb)
Explosive Weight	250-260kg (551-573lb)
Fuze Type	Electrical impact/mechanical time delay fuze.
Bomb Dimensions	1957 x 640mm (77 x 25.2in)
Body Diameter	470mm (18.5in)
Use	Against fixed airfield installations, hangars, assembly halls, flyovers, underpasses, high-rise buildings and below-ground installations.
Remarks	40/60 or 50/50 Amatol TNT, trialene. Bombs recovered with Trialen filling have cylindrical paper wrapped pellets 1-15/16 in. in length and diameter forming



1ST LINE DEFENCE

Unit 3, Maple Park
Essex Road, Hoddesdon,
Hertfordshire. EN11 0EX
Email: info@1stlinedefence.co.uk
Tel: +44 (0)1992 245 020

Client: Delta Simons

Project: Langstone Technology Park

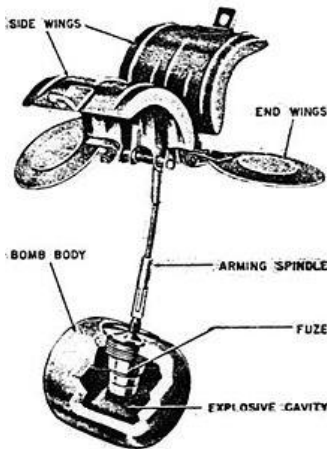
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Source: Various sources

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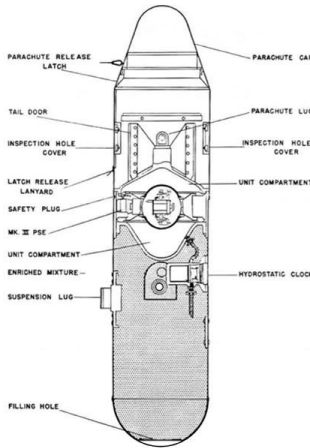
SD2 Anti-Personnel ‘Butterfly Bomb’

Bomb Weight	Approx. 2kg (4.41lb)
Explosive Weight	Approx. 7.5oz (225 grams) of Amatol surrounded by a layer of bituminous composition.
Fuze Type	41 fuze (time) , 67 fuze (clockwork time delay) or 70 fuze (anti-handling device)
Body Diameter	3in (7.62 cm) diameter, 3.1in (7.874) long
Use	Designed as an anti-personnel/ fragmentation weapon. They were delivered by air, being dropped in containers of 23-144 sub-munitions that opened at a predetermined height, thus scattering the bombs.
Remarks	Very rare. First used against Ipswich in 1940, but were also dropped on Kingston upon Hull, Grimsby and Cleethorpes in June 1943, amongst various other targets in UK. As the bombs fell the outer case flicked open by springs which caused four light metal drogues with a protruding 5 inch steel cable to deploy in the form of a parachute & wind vane which armed the device as it span.



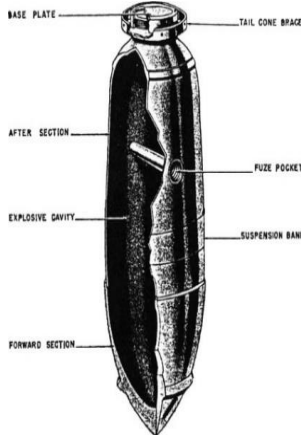
Parachute Mine (Luftmine B / LMB)

Bomb Weight	Approx. 990kg (2176lb)
Explosive Weight	Approx. 705kg (1,554lb)
Fuze Type	Impact/ Time delay / hydrostatic pressure fuze
Dimensions	2.64m x 0.64m (3.04m with parachute housing)
Use	Against civilian, military and industrial targets. Used as blast bombs and designed to detonate above ground level to maximise damage to a wider area.
Remarks	Deployed a parachute when dropped in order to control its descent. Had the potential to cause extensive damage in a 100m radius.



SC 1000kg

Bomb Weight	Approx. 993-1027kg (2,189-2,264lb)
Explosive Weight	Approx. 530-620kg (1168-1367lb)
Fuze Type	Electrical impact/mechanical time delay fuze.
Filling	Mixture of 40% amatol and 60% TNT, but when used as an anti-shipping bomb it was filled with Trialen 105, a mixture of 15% RDX, 70% TNT and 15% aluminium powder.
Bomb Dimensions	2800 x 654mm (110 x 25.8in)
Body Diameter	654mm (18.5in)
Use	SC type bombs are General Purpose Bombs used primarily for general demolition work. Constructed of parallel walls with comparatively heavy noses. They are usually of three piece welded construction



1ST LINE DEFENCE

Unit 3, Maple Park
Essex Road, Hoddesdon,
Hertfordshire. EN11 0EX
Email: info@1stlinedefence.co.uk
Tel: +44 (0)1992 245 020

Client: Delta Simons

Project: Langstone Technology Park

Ref: DA8760-00

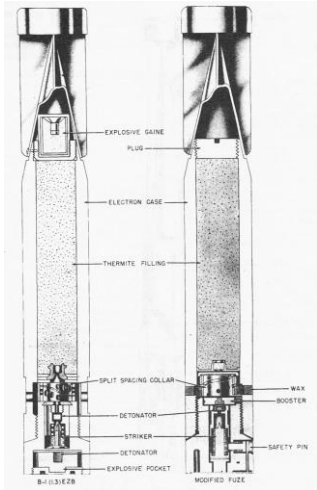
Source: Various sources

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German Incendiary Bombs

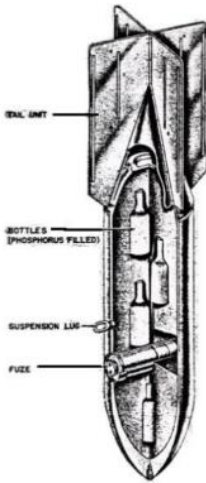
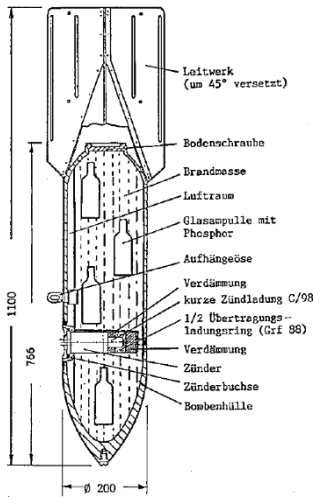
1kg Incendiary Bomb

Bomb Weight	Approx. 1.0 - 1.3kg (2.2 and 2.9lb)
Explosive Weight	Approx. 680g (1.5lb) Thermite 8-15gm Explosive Nitropenta
Fuze Type	Impact fuze
Bomb Dimensions	350 x 50mm (13.8 x 1.97in)
Body Diameter	50mm (1.97in)
Use	As incendiary – dropped in clusters on towns and industrial complexes
Remarks	Magnesium alloy case. Sometimes fitted with high explosive charge. The body is a cylindrical alloy casting threaded internally at the nose to receive the fuze holder and fuze.



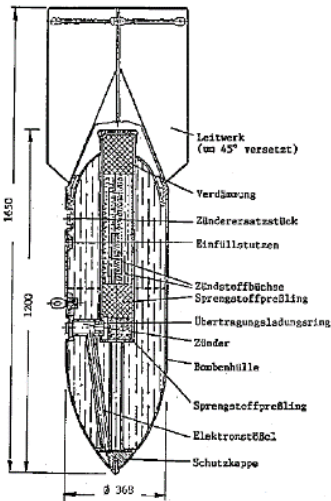
C50 A Incendiary Bomb

Bomb Weight	Approx. 41kg (90.4lb)
Explosive Weight	Approx. 0.03kg (0.066lb)
Incendiary Filling	12kg (25.5lb) liquid filling with phosphor igniters in glass phials. Benzine 85%; Phosphorus 4%; Pure Rubber 10%
Fuze Type	Electrical impact fuze
Bomb Dimensions	1,100 x 280mm (43.2 x 8in)
Use	Against any targets where an incendiary effect is required
Remarks	Early fill was a phosphorous/carbon disulphide incendiary mixture



Flam C-250 Oil Bomb

Bomb Weight	Approx. 125kg (276lb)
Explosive Weight	Approx. 1kg (2.2lb)
Fuze Type	Super-fast electrical impact fuze
Filling	Mixture of 30% petrol and 70% crude oil
Bomb Dimensions	1,650 x 512.2mm (65 x 20.2in)
Body Diameter	368mm (14.5in)
Use	Often used for surprise attacks on ground troops, against troop barracks and industrial installations. Thin casing – not designed for ground penetration



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Unit 3, Maple Park
Essex Road, Hoddesdon,
Hertfordshire. EN11 0EX
Email: info@1stlinedefence.co.uk
Tel: +44 (0)1992 245 020

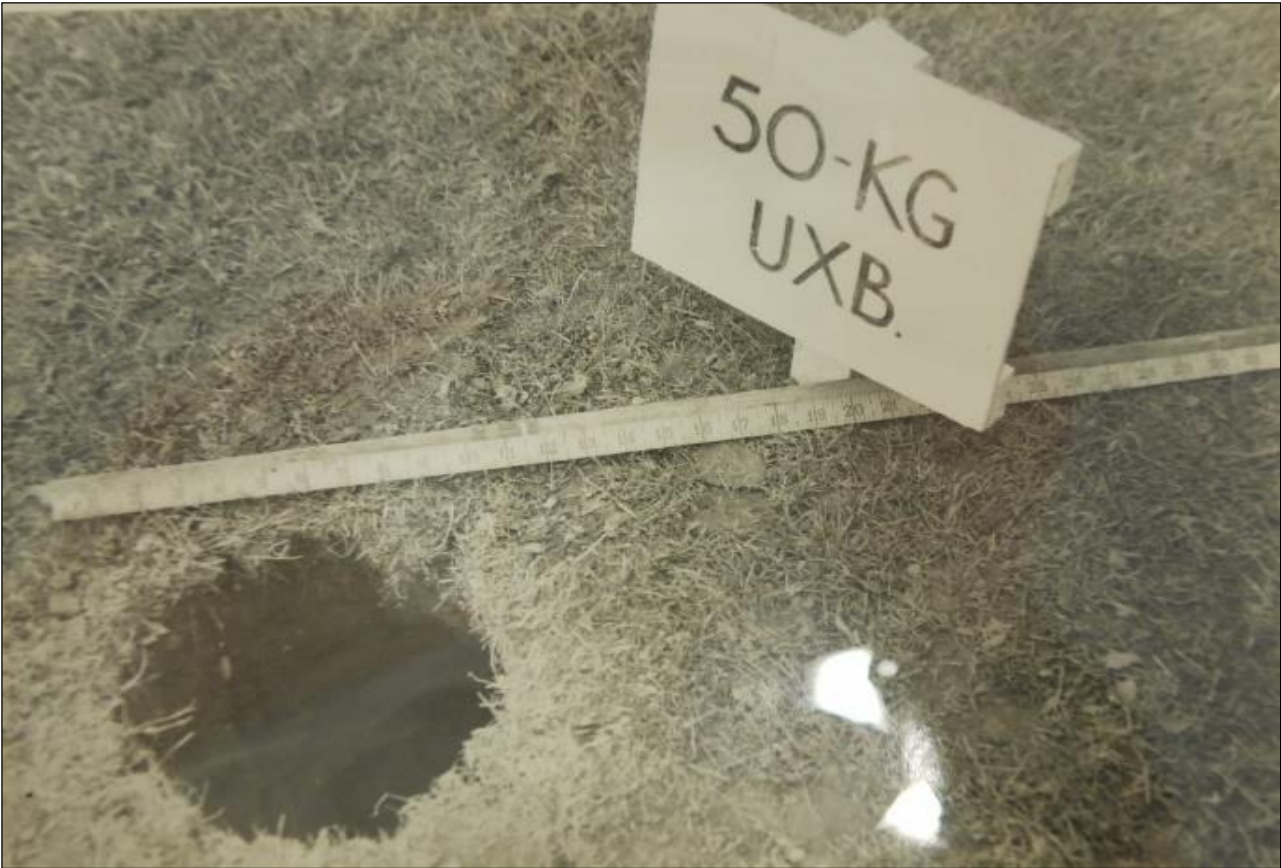
Client: Delta Simons

Project: Langstone Technology Park

Ref: DA8760-00

Source: Various sources

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Bermondsey bomb: World War Two device safely removed



An unexploded World War Two bomb found in south London has been driven away safely under police and Army escort.

The 500lb (250kg) device was found on a building site in Grange Walk, Bermondsey on Monday.

March 2015



Bethnal Green WW2 bomb: Experts remove unexploded device



An unexploded World War Two bomb that prompted the evacuation of 700 people in east London has been made safe and removed by the military.

Families spent the night in a school hall after the 500lb bomb was found in the basement of a building site on Temple Street, in Bethnal Green, on Monday afternoon.

A 200m (650ft) exclusion zone was set up around the device.

August 2016



Bath WW2 bomb scare: Device defused, police say



A 500lb World War Two bomb found on the site of a former school in Bath has been defused and made safe.

The discovery of the bomb on Thursday led to the evacuation of hundreds of homes and many road closures in the Lansdown area of the city.

A cordon around the site was lifted on Friday evening, more than 24 hours after residents were asked to leave their homes.

May 2016



London City Airport reopens after WW2 bomb moved



London City Airport has reopened after an unexploded 500kg World War Two bomb was safely moved from the area.

The device was discovered at the King George V Dock on Sunday during planned work at the east London airport.

All flights were cancelled on Monday after an exclusion zone was put in place, with the closure affecting up to 16,000 passengers and nearby residents being evacuated from their homes.

May 2015



1ST LINE DEFENCE

Unit 3, Maple Park
Essex Road, Hoddesdon,
Hertfordshire. EN11 0EX
Email: info@1stlinedefence.co.uk
Tel: +44 (0)1992 245 020

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Source: BBC News

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BASF has confirmed that an explosive device, most likely a World War II-era bomb, caused the blast that left one person injured Tuesday at a plant construction site in Germany.

The explosion was reported at BASF's Ludwigshafen toluene diisocyanate (TDI) plant, which recently broke ground for a 300,000 metric tons per year TDI production plant and other construction to expand its facilities.



BASF Provides Some Details

Responding to a request from *PaintSquare News* for more information on Wednesday (Feb. 27), BASF's manager of media relations and corporate communications Europe, Ursula von Stetten, wrote in an email, "So here [are] the facts: The detonation took place at 10:00 a.m. One person was injured; the injury is not serious. He will be kept in the hospital for some days.

"Cause of the detonation was an explosive device, presumably a bomb deriving from the Second World War. The device detonated when grounding work was done. No details on [a] delay [are] available. At the moment, the exact circumstances of the incident are [being] evaluated."

1st March 2013

SPIEGEL ONLINE

Blast Kills One
World War II Bomb Explodes on German Motorway

A highway construction worker in Germany accidentally struck an unexploded World War II bomb, causing an explosion which killed him and wrecked several passing cars.



A World War II bomb has exploded during construction work on a German highway, killing one worker and injuring several motorists who were driving past, police said.

The worker had been cutting through the road surface near the south-western town of Aschaffenburg when his machine struck the bomb and triggered it. Police said they weren't sure yet what type of bomb it was. "The explosion seems to have been too small for it to have been an aircraft bomb," a police spokesman said.

23rd October 2006

WWII bomb injures 17 at Hattingen construction site



Seventeen people were injured on Friday when a construction crew unwittingly detonated a buried World War II-era bomb in Hattingen.

An excavator apparently drove over a 250-kilogramme (550 pound) American bomb, damaging surrounding buildings. Most of the injured suffered auditory trauma from the blast, and the excavator operator suffered injuries to his hands, police in the German state of North Rhine-Westphalia said.

"The hole was astoundingly small for such a large bomb full of so many explosives," Armin Gebhard, head of the Arnsberg department for military ordnance removal, told The Local. "But of course it damaged all the surrounding buildings too. We are really happy it wasn't worse."

19th September 2013



World War II bomb kills three in Germany



A special commission is investigating the causes of the explosion, while prosecutors are considering whether the team leader should face charges of manslaughter through culpable negligence, the BBC's Oana Lungescu reports from Berlin.

The blast happened an hour before the defusing operation was due to start.

Officials said the three men who died were experienced sappers, or combat engineers, who over 20 years had defused up to 700 bombs.

More than 7,000 people were immediately evacuated when the 500kg bomb was found. Several schools, a kindergarten and local companies remain closed.

2nd June 2010



June 2006



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Essex Road, Hoddesdon,
Hertfordshire. EN11 0EX
Email: info@1stlinedefence.co.uk
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