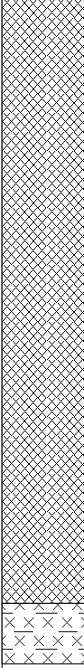
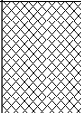


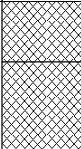
 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TT207 Sheet 1 of 1	
Project Name: Novartis Additional SI				Project No. LP2575		Co-ords: 517877 - 131724 Level: 56.39		Date 25/05/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): 10		Scale 1:25	
Client: West Sussex County Council						Depth 2.20		Logged OA	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	1.00 1.00	ES	PID=0				Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional rebar, plastic and cables.	
				2.00	54.39		Concrete wall with protruding rebar encountered in the northern face of the trench from 1.0m to 1.5m orientated east-west.	1
				2.20	54.19		 Mottled reddish grey clayey SILT.	2
							End of pit at 2.20 m	3
								4
								5

Remarks: Groundwater seepage encountered at 1.6m. Trial trench remained stable.		
Stability:		

 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TT208 Sheet 1 of 1	
Project Name: Novartis Additional SI				Project No. LP2575		Co-ords: 517896 - 131704 Level: 56.17		Date 25/05/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): 10 		Scale 1:25	
Client: West Sussex County Council						Depth 2.20		Logged OA	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.50 0.50	ES	PID=0	0.40	55.77		Brown sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.		
				0.60	55.57		Black stained sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete and brick.		
							Brown sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.		
				2.00	54.17		Mottled reddish grey clayey SILT.		
				2.20	53.97		End of pit at 2.20 m		
1 2 3 4 5									
Remarks: Groundwater seepage encountered at 1.4m. Trial trench remained stable.									
Stability:									

 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TT209 Sheet 1 of 1	
Project Name: Novartis Additional SI				Project No. LP2575		Co-ords: 517998 - 131739 Level: 56.94		Date 26/05/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): 10 0.7		Scale 1:25	
Client: West Sussex County Council						Depth 1.60		Logged OA	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.20	56.74		BLACKTOP.	1
				0.50	56.44		Red sandy gravel fill MADE GROUND with brick and concrete.	
							Greyish brown MADE GROUND comprising sandy gravel of subangular to subrounded fine to coarse crystalline rock, concrete, brick and occasional fragments of plastic.	
	1.20 1.20	ES	PID=0	1.40	55.54		Greyish brown clayey SILT.	2
				1.60	55.34	End of pit at 1.60 m		
								3
								4
								5

Remarks: Groundwater seepage encountered at 1.3m. No further progress in the hard ground.		
Stability:		

Trial Pit Log

Trialpit No

TT210

Sheet 1 of 1

Project Name: Novartis Additional SI

Project No.
LP2575

Co-ords:	518023 - 131733
Level:	56.85

Date
26/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

10

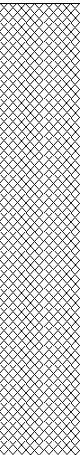
0.7

Scale
1:25

Logged
OA

Client: West Sussex County Council

Depth
1.60

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	1.40 1.40	ES	PID=0	1.50 1.60	55.35 55.25	 	Greyish brown MADE GROUND sandy gravel comprising subangular to subrounded fine to coarse crystalline rock, concrete, brick and occasional rebar, scrap metal, polythene and plastic. Grey clayey SILT. ----- End of pit at 1.60 m

Remarks:	Groundwater seepage encountered at 0.9m. Trial trench remained stable.
----------	--

Stability:

AGS

AGS



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The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
Tel: 01306 646510
www.leapenvironmental.com

Trial Pit Log

Trialpit No

TT212

Sheet 1 of 1

Project Name: Novartis Additional SI

Project No.
LP2575

Co-ords: 518020 - 131641
Level: 56.47

Date
26/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

10

Depth
2.00

0.7

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	1.40 1.40	ES	PID=0				Grey MADE GROUND comprising sandy gravel of coarse subangular to subrounded dark grey crystalline rock.	1
				1.90 2.00	54.57 54.47		Cables and wooden board encountered at 1.4m Grey clayey SILT. End of pit at 2.00 m	2
								3
								4
								5

Remarks: Groundwater seepage encountered at 0.65m. Trial trench remained stable.

Stability:

AGS

Project Name: Novartis Additional SI

Project No.
LP2575

Co-ords: 517827 - 131725

Level: 56.56

Date _____

25/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

10

Depth
2.20

2.0

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	1.50 1.50	ES	PID=0				Greyish brown sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of scrap metal, rebar, plastic and ceramic.
				2.00	54.56		Grey silty CLAY.
				2.20	54.36		End of pit at 2.20 m

Remarks: Groundwater seepage encountered at 1.7m.

Stability:



Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
Tel: 01306 646510
www.leapenvironmental.com

Trial Pit Log

Trialpit No

TT214

Sheet 1 of 1

Project Name: Novartis Additional SI

Project No.
LP2575

Co-ords: 517981 - 131480
Level: 57.32

Date
26/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

10

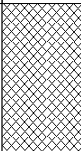
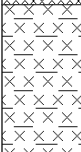
Depth
1.00

0.7

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.40 0.40	ES	PID=0	0.50	56.82		Red sandy gravel MADE GROUND fill with brick and concrete.	
				1.00	56.32		Yellowish grey clayey SILT.	
							End of pit at 1.00 m	1
								2
								3
								4
								5

Remarks: Trial pit remained dry and stable.

Stability:

AGS

APPENDIX E – GEOENVIRONMENTAL ANALYTICAL LABORATORY CERTIFICATES



Unit A2
Windmill Road
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St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-31660

Issue: 1

Date of Issue: 19/01/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

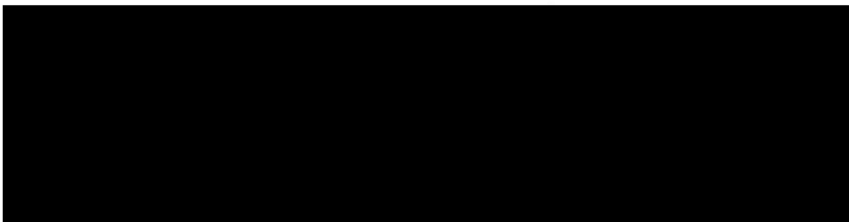
Order No: LPO-3136

Customer Reference: LP2441

Date Received: 13/01/2021

Date Approved: 19/01/2021

Details: Novartis - Horsham



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Sample Summary

Report No.: 21-31660, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
224614	BH106 0.20	11/01/2021	14/01/2021	Silty loam	
224615	BH106 0.45	11/01/2021	14/01/2021		
224616	BH105 0.10	11/01/2021	14/01/2021		
224617	BH105 0.50	11/01/2021	14/01/2021	Sandy loam	
224618	BH105 1.00	11/01/2021	14/01/2021		



Results Summary

2683

Report No.: 21-31660, issue number 1

ELAB Reference	224614	224617
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	BH106	BH105
Sample Depth (m)	0.20	0.50
Sampling Date	11/01/2021	11/01/2021

Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Material removed	N	%	0.1	51.5	53.3
Description of Inert material removed	N		0	Stones,concrete	Stones,concrete
Metals					
Arsenic	M	mg/kg	1	9.2	11.9
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	24.8	31.1
Copper	M	mg/kg	5	16.1	46.7
Lead	M	mg/kg	5	100	73.7
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	13.3	21.3
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	72.7	169
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Miscellaneous					
pH	M	pH units	0.1	11.0	11.5
Total Organic Carbon	N	%	0.01	0.73	0.46
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	0.2	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.8	0.4
Anthracene	M	mg/kg	0.1	0.3	< 0.1
Fluoranthene	M	mg/kg	0.1	1.5	0.8
Pyrene	M	mg/kg	0.1	1.3	0.7
Benzo(a)anthracene	M	mg/kg	0.1	0.8	0.3
Chrysene	M	mg/kg	0.1	1.0	0.5
Benzo(b)fluoranthene	M	mg/kg	0.1	1.0	0.9
Benzo(k)fluoranthene	M	mg/kg	0.1	0.9	0.8
Benzo(a)pyrene	M	mg/kg	0.1	0.8	0.6
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.6	0.3
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.2	0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.6	0.3
Total PAH(16)	M	mg/kg	0.4	10.2	6.0



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY

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Results Summary

Report No.: 21-31660, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
224614	0.20	BH106	Brown Sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
224617	0.50	BH105	Brown Sandy Soil,Stones,Grey Block	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-31660, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	18/01/2021	110	Colorimetry
pH	M	Air dried sample	18/01/2021	113	Electromeric
PAH (GC-FID)	M	As submitted sample	18/01/2021	133	GC-FID
Total organic carbon/Total sulphur	N	Air dried sample	19/01/2021	210	IR
Asbestos identification	U	Air dried sample	18/01/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	18/01/2021	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-31660, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-31660

Issue: 1

Date of Issue: 19/01/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3136

Customer Reference: LP2441

Date Received: 13/01/2021

Date Approved: 19/01/2021

Details: Novartis - Horsham

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-31660, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
224614	BH106 0.20	11/01/2021	14/01/2021	Silty loam	
224615	BH106 0.45	11/01/2021	14/01/2021		
224616	BH105 0.10	11/01/2021	14/01/2021		
224617	BH105 0.50	11/01/2021	14/01/2021	Sandy loam	
224618	BH105 1.00	11/01/2021	14/01/2021		



Results Summary

2683

Report No.: 21-31660, issue number 1

ELAB Reference	224614	224617
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	BH106	BH105
Sample Depth (m)	0.20	0.50
Sampling Date	11/01/2021	11/01/2021

Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Material removed	N	%	0.1	51.5	53.3
Description of Inert material removed	N		0	Stones,concrete	Stones,concrete
Metals					
Arsenic	M	mg/kg	1	9.2	11.9
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	24.8	31.1
Copper	M	mg/kg	5	16.1	46.7
Lead	M	mg/kg	5	100	73.7
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	13.3	21.3
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	72.7	169
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Miscellaneous					
pH	M	pH units	0.1	11.0	11.5
Total Organic Carbon	N	%	0.01	0.73	0.46
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	0.2	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.8	0.4
Anthracene	M	mg/kg	0.1	0.3	< 0.1
Fluoranthene	M	mg/kg	0.1	1.5	0.8
Pyrene	M	mg/kg	0.1	1.3	0.7
Benzo(a)anthracene	M	mg/kg	0.1	0.8	0.3
Chrysene	M	mg/kg	0.1	1.0	0.5
Benzo(b)fluoranthene	M	mg/kg	0.1	1.0	0.9
Benzo(k)fluoranthene	M	mg/kg	0.1	0.9	0.8
Benzo(a)pyrene	M	mg/kg	0.1	0.8	0.6
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.6	0.3
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.2	0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.6	0.3
Total PAH(16)	M	mg/kg	0.4	10.2	6.0



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY

Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 21-31660, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
224614	0.20	BH106	Brown Sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
224617	0.50	BH105	Brown Sandy Soil,Stones,Grey Block	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-31660, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	18/01/2021	110	Colorimetry
pH	M	Air dried sample	18/01/2021	113	Electromeric
PAH (GC-FID)	M	As submitted sample	18/01/2021	133	GC-FID
Total organic carbon/Total sulphur	N	Air dried sample	19/01/2021	210	IR
Asbestos identification	U	Air dried sample	18/01/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	18/01/2021	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-31660, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



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Ponswood Industrial Estate
St Leonards on Sea
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Telephone: (01424) 718618

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info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-31724

Issue: 1

Date of Issue: 25/01/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3137

Customer Reference: General Testing Quote

Date Received: 19/01/2021

Date Approved: 25/01/2021

Details: Novartis - Horsham

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Sample Summary

Report No.: 21-31724, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
224995	BH104 0.10	14/01/2021	20/01/2021		
224996	BH104 0.50	14/01/2021	20/01/2021	Loamy sand	
224997	TP101 0.15	18/01/2021	20/01/2021		
224998	TP102 0.10	18/01/2021	20/01/2021		
224999	TP104 0.15	18/01/2021	20/01/2021		
225000	TP106 0.10	18/01/2021	20/01/2021		
225001	TP110 0.10	18/01/2021	20/01/2021		
225002	TP110 0.35	18/01/2021	20/01/2021		
225003	TP123 0.15	18/01/2021	20/01/2021		
225004	TP123 0.40	18/01/2021	20/01/2021		
225005	TP124 0.10	18/01/2021	20/01/2021		
225006	TP124 0.90	18/01/2021	20/01/2021		



Results Summary

2683

Report No.: 21-31724, issue number 1

ELAB Reference	224996
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	BH104
Sample Depth (m)	0.50
Sampling Date	14/01/2021

Determinand	Codes	Units	LOD	
Soil sample preparation parameters				
Material removed	N	%	0.1	68.0
Description of Inert material removed	N		0	Stones
Metals				
Arsenic	M	mg/kg	1	9.8
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	32.8
Copper	M	mg/kg	5	33.7
Lead	M	mg/kg	5	61.6
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	17.9
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	98.2
Inorganics				
Hexavalent Chromium	N	mg/kg	0.8	< 0.8
Miscellaneous				
pH	M	pH units	0.1	10.9
Total Organic Carbon	N	%	0.01	0.69
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	0.1
Phenanthrene	M	mg/kg	0.1	0.3
Anthracene	M	mg/kg	0.1	0.4
Fluoranthene	M	mg/kg	0.1	5.6
Pyrene	M	mg/kg	0.1	3.9
Benzo(a)anthracene	M	mg/kg	0.1	6.1
Chrysene	M	mg/kg	0.1	7.4
Benzo(b)fluoranthene	M	mg/kg	0.1	7.1
Benzo(k)fluoranthene	M	mg/kg	0.1	7.1
Benzo(a)pyrene	M	mg/kg	0.1	6.3
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	5.3
Dibenzo(a,h)anthracene	M	mg/kg	0.1	1.8
Benzo[g,h,i]perylene	M	mg/kg	0.1	4.4
Total PAH(16)	M	mg/kg	0.4	55.9



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Results Summary

Report No.: 21-31724, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
224996	0.50	BH104	Brown Sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-31724, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	21/01/2021	110	Colorimetry
pH	M	Air dried sample	21/01/2021	113	Electromeric
PAH (GC-FID)	M	As submitted sample	21/01/2021	133	GC-FID
Total organic carbon/Total sulphur	N	Air dried sample	22/01/2021	210	IR
Asbestos identification	U	Air dried sample	22/01/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	21/01/2021	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-31724, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-31724

Issue: 2. Replaces Analytical Report number 21-31724; issue no.1

Date of Issue: 29/01/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3137

Customer Reference: General Testing Quote

Date Received: 19/01/2021

Date Approved: 29/01/2021

Details: Novartis - Horsham

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

This report may only be reproduced in full

Sample Summary

Report No.: 21-31724, issue number 2

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
224995	BH104 0.10	14/01/2021	20/01/2021		
224996	BH104 0.50	14/01/2021	20/01/2021	Loamy sand	
224997	TP101 0.15	18/01/2021	20/01/2021	Silty loam	
224998	TP102 0.10	18/01/2021	20/01/2021		
224999	TP104 0.15	18/01/2021	20/01/2021	Silty loam	
225000	TP106 0.10	18/01/2021	20/01/2021	Silty loam	
225001	TP110 0.10	18/01/2021	20/01/2021		
225002	TP110 0.35	18/01/2021	20/01/2021	Silty loam	
225003	TP123 0.15	18/01/2021	20/01/2021		
225004	TP123 0.40	18/01/2021	20/01/2021	Loamy sand	
225005	TP124 0.10	18/01/2021	20/01/2021	Sandy loam	
225006	TP124 0.90	18/01/2021	20/01/2021	Silty loam	

Results Summary

2683

Report No.: 21-31724, issue number 2

ELAB Reference	224996	224997	224999	225000	225002
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	BH104	TP101	TP104	TP106	TP110
Sample Depth (m)	0.50	0.15	0.15	0.10	0.35
Sampling Date	14/01/2021	18/01/2021	18/01/2021	18/01/2021	18/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	68.0	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	Stones	None	None	None	None
Metals								
Arsenic	M	mg/kg	1	9.8	7.4	7.4	9.6	11.5
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	32.8	14.2	14.0	18.7	23.4
Copper	M	mg/kg	5	33.7	19.7	18.8	18.9	18.7
Lead	M	mg/kg	5	61.6	74.2	52.0	49.4	31.6
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	17.9	8.3	7.8	10.2	15.2
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	98.2	42.4	47.4	47.0	73.4
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	10.9	6.4	6.4	6.9	7.7
Total Organic Carbon	N	%	0.01	0.69	1.4	2.0	1.5	0.60
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.3	0.2	0.2	0.1	< 0.1
Anthracene	M	mg/kg	0.1	0.4	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	5.6	1.6	0.6	0.4	< 0.1
Pyrene	M	mg/kg	0.1	3.9	0.7	0.5	0.3	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	6.1	0.5	0.4	0.2	< 0.1
Chrysene	M	mg/kg	0.1	7.4	0.8	0.4	0.2	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	7.1	0.5	0.6	0.4	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	7.1	0.7	0.7	0.4	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	6.3	0.5	0.4	0.3	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	5.3	0.3	0.3	0.2	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	1.8	0.1	0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	4.4	0.3	0.2	0.2	< 0.1
Total PAH(16)	M	mg/kg	0.4	55.9	6.5	4.6	2.7	< 0.4



Results Summary

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Report No.: 21-31724, issue number 2

ELAB Reference				224996	224997	224999	225000	225002
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				BH104	TP101	TP104	TP106	TP110
Sample Depth (m)				0.50	0.15	0.15	0.10	0.35
Sampling Date				14/01/2021	18/01/2021	18/01/2021	18/01/2021	18/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Toluene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Xylenes	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t

Results Summary

2683

Report No.: 21-31724, issue number 2

ELAB Reference	225004	225005	225006
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	TP123	TP124	TP124
Sample Depth (m)	0.40	0.10	0.90
Sampling Date	18/01/2021	18/01/2021	18/01/2021

Determinand	Codes	Units	LOD			
Soil sample preparation parameters						
Material removed	N	%	0.1	61.7	52.5	< 0.1
Description of Inert material removed	N		0	Stones	Stones	None
Metals						
Arsenic	M	mg/kg	1	12.0	12.2	7.4
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	27.1	32.4	22.2
Copper	M	mg/kg	5	22.8	43.5	52.1
Lead	M	mg/kg	5	90.3	65.6	48.3
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	17.4	20.0	10.2
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	146	117	74.1
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8
Miscellaneous						
pH	M	pH units	0.1	10.5	11.0	7.5
Total Organic Carbon	N	%	0.01	0.37	0.56	1.8
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.4	1.0	0.1
Pyrene	M	mg/kg	0.1	0.4	1.2	0.1
Benzo(a)anthracene	M	mg/kg	0.1	0.3	0.5	< 0.1
Chrysene	M	mg/kg	0.1	0.5	0.8	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	0.4	0.4	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	0.6	0.4	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	0.3	0.3	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.2	0.2	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.1	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.3	0.3	< 0.1
Total PAH(16)	M	mg/kg	0.4	3.9	5.4	0.5

Results Summary

2683

Report No.: 21-31724, issue number 2

ELAB Reference	225004	225005	225006
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	TP123	TP124	TP124
Sample Depth (m)	0.40	0.10	0.90
Sampling Date	18/01/2021	18/01/2021	18/01/2021

Determinand	Codes	Units	LOD			
BTEX						
Benzene	M	ug/kg	10	n/t	n/t	< 10.0
Toluene	M	ug/kg	10	n/t	n/t	< 10.0
Ethylbenzene	M	ug/kg	10	n/t	n/t	< 10.0
Xylenes	M	ug/kg	10	n/t	n/t	< 10.0
MTBE	N	ug/kg	10	n/t	n/t	< 10.0
TPH CWG						
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.5
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	< 1.5



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Results Summary

Report No.: 21-31724, issue number 2

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)
in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
224996	0.50	BH104	Brown Sandy Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
224997	0.15	TP101	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
224999	0.15	TP104	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
225000	0.10	TP106	Brown Soil, Stones, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
225002	0.35	TP110	Brown Soil, Stones, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
225004	0.40	TP123	Brown Soil, Stones, Clinker, Concrete,	No asbestos detected	n/t	n/t	n/t	n/t
225005	0.10	TP124	Brown Soil, Stones, Clinker, Concrete,	No asbestos detected	n/t	n/t	n/t	n/t
225006	0.90	TP124	Brown Soil, Stones, Clinker	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-31724, issue number 2

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	21/01/2021	110	Colorimetry
pH	M	Air dried sample	21/01/2021	113	Electromeric
PAH (GC-FID)	M	As submitted sample	21/01/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	29/01/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	29/01/2021	181	GC-MS
BTEX in solids	M	As submitted sample	29/01/2021	181A	GC-MS
Total organic carbon/Total sulphur	N	Air dried sample	22/01/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	27/01/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	29/01/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	27/01/2021	214	GC-FID
Asbestos identification	U	Air dried sample	22/01/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	21/01/2021	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-31724, issue number 2

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



Unit A2
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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-31724

Issue: 1

Date of Issue: 25/01/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3137

Customer Reference: General Testing Quote

Date Received: 19/01/2021

Date Approved: 25/01/2021

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-31724, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
224995	BH104 0.10	14/01/2021	20/01/2021		
224996	BH104 0.50	14/01/2021	20/01/2021	Loamy sand	
224997	TP101 0.15	18/01/2021	20/01/2021		
224998	TP102 0.10	18/01/2021	20/01/2021		
224999	TP104 0.15	18/01/2021	20/01/2021		
225000	TP106 0.10	18/01/2021	20/01/2021		
225001	TP110 0.10	18/01/2021	20/01/2021		
225002	TP110 0.35	18/01/2021	20/01/2021		
225003	TP123 0.15	18/01/2021	20/01/2021		
225004	TP123 0.40	18/01/2021	20/01/2021		
225005	TP124 0.10	18/01/2021	20/01/2021		
225006	TP124 0.90	18/01/2021	20/01/2021		

Results Summary

2683

Report No.: 21-31724, issue number 1

ELAB Reference	224996
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	BH104
Sample Depth (m)	0.50
Sampling Date	14/01/2021

Determinand	Codes	Units	LOD	
Soil sample preparation parameters				
Material removed	N	%	0.1	68.0
Description of Inert material removed	N		0	Stones
Metals				
Arsenic	M	mg/kg	1	9.8
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	32.8
Copper	M	mg/kg	5	33.7
Lead	M	mg/kg	5	61.6
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	17.9
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	98.2
Inorganics				
Hexavalent Chromium	N	mg/kg	0.8	< 0.8
Miscellaneous				
pH	M	pH units	0.1	10.9
Total Organic Carbon	N	%	0.01	0.69
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	0.1
Phenanthrene	M	mg/kg	0.1	0.3
Anthracene	M	mg/kg	0.1	0.4
Fluoranthene	M	mg/kg	0.1	5.6
Pyrene	M	mg/kg	0.1	3.9
Benzo(a)anthracene	M	mg/kg	0.1	6.1
Chrysene	M	mg/kg	0.1	7.4
Benzo(b)fluoranthene	M	mg/kg	0.1	7.1
Benzo(k)fluoranthene	M	mg/kg	0.1	7.1
Benzo(a)pyrene	M	mg/kg	0.1	6.3
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	5.3
Dibenzo(a,h)anthracene	M	mg/kg	0.1	1.8
Benzo[g,h,i]perylene	M	mg/kg	0.1	4.4
Total PAH(16)	M	mg/kg	0.4	55.9



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Results Summary

Report No.: 21-31724, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
224996	0.50	BH104	Brown Sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-31724, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	21/01/2021	110	Colorimetry
pH	M	Air dried sample	21/01/2021	113	Electromeric
PAH (GC-FID)	M	As submitted sample	21/01/2021	133	GC-FID
Total organic carbon/Total sulphur	N	Air dried sample	22/01/2021	210	IR
Asbestos identification	U	Air dried sample	22/01/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	21/01/2021	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-31724, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-31809

Issue: Preliminary Report

Date of Issue: 01/02/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3189

Customer Reference: LP2441

Date Received: 21/01/2021

Date Approved: 01/02/2021

Details: Novartis - Horsham

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-31809, issue number 0

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
225415	TP147 0.10	18/01/2021	25/01/2021	Loamy sand	
225416	TP147 0.70	18/01/2021	25/01/2021	Sandy loam	
225417	TP117 0.10	19/01/2021	25/01/2021		
225418	TP117 0.40	19/01/2021	25/01/2021		
225419	TP117 0.60	19/01/2021	25/01/2021	Sandy silty loam	
225420	TP117 0.90	19/01/2021	25/01/2021	Silty clayey loam	
225421	TP117 1.20	19/01/2021	25/01/2021		
225422	TP118 0.10	19/01/2021	25/01/2021		
225423	TP118 0.50	19/01/2021	25/01/2021	Loamy sand	
225424	TP118 0.90	19/01/2021	25/01/2021		
225425	TP118 1.50	19/01/2021	25/01/2021		
225426	TP120 0.10	19/01/2021	25/01/2021		
225427	TP120 0.25	19/01/2021	25/01/2021	Loamy sand	
225428	TP121 0.10	19/01/2021	25/01/2021	Loamy sand	
225429	TP121 0.30	19/01/2021	25/01/2021	Loamy sand	
225430	TP129 0.20	19/01/2021	25/01/2021	Loamy sand	
225431	TP129 0.50	19/01/2021	25/01/2021		
225432	TP129 0.80	19/01/2021	25/01/2021	Sandy loam	
225433	TP128 0.10	19/01/2021	25/01/2021	Loamy sand	
225434	TP128 0.50	19/01/2021	25/01/2021		
225435	TP128 0.90	19/01/2021	25/01/2021		
225436	TP128 1.30	19/01/2021	25/01/2021		
225437	TP128 1.90	19/01/2021	25/01/2021	Silty clayey loam	
225438	TP122 0.10	19/01/2021	25/01/2021		
225439	TP122 0.50	19/01/2021	25/01/2021	Sandy loam	
225440	TP122 0.90	19/01/2021	25/01/2021		
225441	TP122 1.40	19/01/2021	25/01/2021		
225442	TP150 0.10	19/01/2021	25/01/2021	Silty loam	
225443	TP150 0.30	19/01/2021	25/01/2021	Sand	
225444	TP130 0.10	20/01/2021	25/01/2021	Silty loam	
225445	TP151 0.20	20/01/2021	25/01/2021	Loamy sand	
225446	TP151 0.70	20/01/2021	25/01/2021	Loamy sand	
225447	TP132 0.10	20/01/2021	25/01/2021		
225448	TP132 0.40	20/01/2021	25/01/2021	Sandy loam	
225449	TP132 0.80	20/01/2021	25/01/2021		
225450	TP132 1.20	20/01/2021	25/01/2021		
225451	TP132 1.80	20/01/2021	25/01/2021	Sandy loam	
225452	TP135 0.10	20/01/2021	25/01/2021		
225453	TP135 0.40	20/01/2021	25/01/2021		
225454	TP133 0.10	20/01/2021	25/01/2021	Loamy sand	
225455	TP133 0.80	20/01/2021	25/01/2021		
225456	TP133 1.50	20/01/2021	25/01/2021		
225457	TP152 0.20	20/01/2021	25/01/2021		
225458	TP152 0.60	20/01/2021	25/01/2021	stones	
225459	TP138 0.10	20/01/2021	25/01/2021	Loamy sand	
225460	TP139 0.20	20/01/2021	25/01/2021	Sand	
225461	TP139 0.50	20/01/2021	25/01/2021		
225462	WS101 0.15	20/01/2021	25/01/2021		
225463	WS101 1.40	20/01/2021	25/01/2021		
225464	WS102 0.20	20/01/2021	25/01/2021	Loamy sand	
225465	WS104 0.40	20/01/2021	25/01/2021		
225466	WS107 0.40	20/01/2021	25/01/2021		
225467	WS108 0.50	20/01/2021	25/01/2021		
225468	WS108 1.00	20/01/2021	25/01/2021	Clayey loam	
225469	WS112 0.20	20/01/2021	25/01/2021		
225470	WS113 0.30	20/01/2021	25/01/2021		



Sample Summary

Report No.: 21-31809, issue number 0

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
225471	WS113 0.70	20/01/2021	25/01/2021	Sandy loam	

Results Summary

Report No.: 21-31809, issue number 0

ELAB Reference				225415	225416	225419	225420	225423
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP147	TP147	TP117	TP117	TP118
Sample Depth (m)				0.10	0.70	0.60	0.90	0.50
Sampling Date				18/01/2021	18/01/2021	19/01/2021	19/01/2021	19/01/2021
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	68.7	77.0	27.1	< 0.1	69.0
Description of Inert material removed	N		0	Stones	Stones	Stones,brick	None	Stones
Metals								
Arsenic	M	mg/kg	1	^ 11.1	^ 9.7	^ 14.0	^ 6.5	10.7
Cadmium	M	mg/kg	0.5	^ < 0.5	^ < 0.5	^ < 0.5	^ < 0.5	< 0.5
Chromium	M	mg/kg	5	^ 32.6	^ 28.2	^ 21.6	^ 19.7	62.1
Copper	M	mg/kg	5	^ 25.5	^ 27.6	^ 37.5	^ 19.1	31.1
Lead	M	mg/kg	5	^ 34.0	^ 40.5	^ 57.3	^ 30.2	46.5
Mercury	M	mg/kg	0.5	^ < 0.5	^ < 0.5	^ < 0.5	^ < 0.5	< 0.5
Nickel	M	mg/kg	5	^ 19.9	^ 21.6	^ 20.6	^ 10.4	41.9
Selenium	M	mg/kg	1	^ < 1.0	^ < 1.0	^ < 1.0	^ < 1.0	< 1.0
Zinc	M	mg/kg	5	^ 85.0	^ 99.2	^ 75.7	^ 44.2	130
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	^ 11.9	^ 11.6	^ 9.3	^ 7.5	11.9
Total Organic Carbon	N	%	0.01	0.29	0.28	1.0	0.96	0.27
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ < 0.1	^ < 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ < 0.1	^ < 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ < 0.1	^ < 0.1	< 0.1
Fluorene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ < 0.1	^ < 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ 0.4	^ < 0.1	< 0.1
Anthracene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ 0.1	^ < 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	^ 0.1	^ < 0.1	^ 1.3	^ < 0.1	0.2
Pyrene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ 1.1	^ < 0.1	0.1
Benzo(a)anthracene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ 0.7	^ < 0.1	< 0.1
Chrysene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ 0.8	^ < 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ 0.7	^ < 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ 1.1	^ < 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ 0.7	^ < 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ 0.6	^ < 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ 0.2	^ < 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ 0.5	^ < 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	^ 0.4	^ 0.4	^ 8.3	^ < 0.4	0.5

Results Summary

Report No.: 21-31809, issue number 0

ELAB Reference				225415	225416	225419	225420	225423
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP147	TP147	TP117	TP117	TP118
Sample Depth (m)				0.10	0.70	0.60	0.90	0.50
Sampling Date				18/01/2021	18/01/2021	19/01/2021	19/01/2021	19/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	^ < 10.0	^ < 10.0	n/t
Toluene	M	ug/kg	10	n/t	n/t	^ < 10.0	^ < 10.0	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	^ < 10.0	^ < 10.0	n/t
Xylenes	M	ug/kg	10	n/t	n/t	^ < 10.0	^ < 10.0	n/t
MTBE	N	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	42.8	< 1.0	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	70.3	< 1.0	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	1.2	< 1.0	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	106	< 1.0	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	166	< 1.0	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	387	< 1.0	n/t

Results Summary

Report No.: 21-31809, issue number 0

ELAB Reference				225427	225428	225429	225430	225432
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP120	TP121	TP121	TP129	TP129
Sample Depth (m)				0.25	0.10	0.30	0.20	0.80
Sampling Date				19/01/2021	19/01/2021	19/01/2021	19/01/2021	19/01/2021
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	62.9	66.2	61.1	59.2	99.7
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	All stones
Metals								
Arsenic	M	mg/kg	1	12.4	12.9	13.0	12.2	10.0
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	80.7	78.7	87.5	83.6	30.2
Copper	M	mg/kg	5	29.6	33.9	32.8	32.1	16.6
Lead	M	mg/kg	5	116	58.6	61.7	136	20.0
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	55.4	55.8	58.0	56.0	19.9
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	269	196	186	244	67.8
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	11.7	11.4	12.0	11.8	11.1
Total Organic Carbon	N	%	0.01	0.43	0.43	0.32	0.46	0.22
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	0.1	0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	0.5	< 0.4	< 0.4

Results Summary

Report No.: 21-31809, issue number 0

ELAB Reference				225427	225428	225429	225430	225432
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP120	TP121	TP121	TP129	TP129
Sample Depth (m)				0.25	0.10	0.30	0.20	0.80
Sampling Date				19/01/2021	19/01/2021	19/01/2021	19/01/2021	19/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Toluene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Xylenes	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 21-31809, issue number 0

ELAB Reference				225433	225437	225439	225442	225443
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP128	TP128	TP122	TP150	TP150
Sample Depth (m)				0.10	1.90	0.50	0.10	0.30
Sampling Date				19/01/2021	19/01/2021	19/01/2021	19/01/2021	19/01/2021
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	60.6	17.8	27.0	19.8	n/t
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	n/t
Metals								
Arsenic	M	mg/kg	1	^ 10.9	^ 5.3	^ 8.9	^ 8.6	n/t
Cadmium	M	mg/kg	0.5	^ < 0.5	^ < 0.5	^ < 0.5	^ < 0.5	n/t
Chromium	M	mg/kg	5	^ 69.6	^ 30.7	^ 32.1	^ 25.7	n/t
Copper	M	mg/kg	5	^ 29.8	^ 15.1	^ 16.2	^ 14.4	n/t
Lead	M	mg/kg	5	^ 547	^ 26.4	^ 35.6	^ 23.3	n/t
Mercury	M	mg/kg	0.5	^ < 0.5	^ < 0.5	^ < 0.5	^ < 0.5	n/t
Nickel	M	mg/kg	5	^ 47.7	^ 23.2	^ 21.0	^ 22.0	n/t
Selenium	M	mg/kg	1	^ < 1.0	^ < 1.0	^ < 1.0	^ < 1.0	n/t
Zinc	M	mg/kg	5	^ 156	^ 66.3	^ 79.1	^ 78.3	n/t
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	n/t
Miscellaneous								
pH	M	pH units	0.1	^ 11.8	^ 9.9	^ 11.5	^ 8.8	n/t
Total Organic Carbon	N	%	0.01	0.30	0.36	0.27	0.48	n/t
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ < 0.1	^ < 0.1	n/t
Acenaphthylene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ < 0.1	^ < 0.1	n/t
Acenaphthene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ < 0.1	^ < 0.1	n/t
Fluorene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ < 0.1	^ 0.1	n/t
Phenanthrene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ < 0.1	^ 0.9	n/t
Anthracene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ < 0.1	^ 0.4	n/t
Fluoranthene	M	mg/kg	0.1	^ 0.3	^ < 0.1	^ 0.5	^ 2.0	n/t
Pyrene	M	mg/kg	0.1	^ 0.3	^ < 0.1	^ 0.5	^ 1.5	n/t
Benzo(a)anthracene	M	mg/kg	0.1	^ 0.2	^ < 0.1	^ 0.4	^ 1.1	n/t
Chrysene	M	mg/kg	0.1	^ 0.2	^ < 0.1	^ 0.4	^ 1.0	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	^ 0.5	^ < 0.1	^ 0.6	^ 1.1	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	^ 0.5	^ < 0.1	^ 0.6	^ 1.2	n/t
Benzo(a)pyrene	M	mg/kg	0.1	^ 0.2	^ < 0.1	^ 0.4	^ 0.9	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	^ 0.1	^ < 0.1	^ 0.3	^ 0.6	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	^ 0.1	^ 0.2	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	^ 0.2	^ < 0.1	^ 0.3	^ 0.5	n/t
Total PAH(16)	M	mg/kg	0.4	^ 2.7	^ < 0.4	^ 4.4	^ 11.4	n/t

Results Summary

Report No.: 21-31809, issue number 0

ELAB Reference				225433	225437	225439	225442	225443
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP128	TP128	TP122	TP150	TP150
Sample Depth (m)				0.10	1.90	0.50	0.10	0.30
Sampling Date				19/01/2021	19/01/2021	19/01/2021	19/01/2021	19/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Toluene	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Ethylbenzene	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Xylenes	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	1.1
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	1.7
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	1.2
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	13.5
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	6.5
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	24.0

Results Summary

Report No.: 21-31809, issue number 0

ELAB Reference				225444	225445	225446	225448	225451
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP130	TP151	TP151	TP132	TP132
Sample Depth (m)				0.10	0.20	0.70	0.40	1.80
Sampling Date				20/01/2021	20/01/2021	20/01/2021	20/01/2021	20/01/2021
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	15.7	62.1	n/t	56.2	38.4
Description of Inert material removed	N		0	Stones	Stones	n/t	Stones	Stones
Metals								
Arsenic	M	mg/kg	1	^ 9.6	13.3	n/t	^ 8.8	^ 7.0
Cadmium	M	mg/kg	0.5	^ < 0.5	< 0.5	n/t	^ < 0.5	^ < 0.5
Chromium	M	mg/kg	5	^ 24.1	82.1	n/t	^ 35.2	^ 27.8
Copper	M	mg/kg	5	^ 15.3	37.5	n/t	^ 16.7	^ 14.3
Lead	M	mg/kg	5	^ 42.7	164	n/t	^ 61.4	^ 26.1
Mercury	M	mg/kg	0.5	^ < 0.5	< 0.5	n/t	^ < 0.5	^ < 0.5
Nickel	M	mg/kg	5	^ 16.6	51.4	n/t	^ 27.7	^ 21.0
Selenium	M	mg/kg	1	^ < 1.0	< 1.0	n/t	^ < 1.0	^ < 1.0
Zinc	M	mg/kg	5	^ 83.2	306	n/t	^ 197	^ 85.5
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	n/t	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	^ 8.9	11.6	n/t	^ 11.0	^ 11.1
Total Organic Carbon	N	%	0.01	1.7	0.53	n/t	0.40	0.36
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ < 0.1	^ < 0.1
Acenaphthylene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ < 0.1	^ < 0.1
Acenaphthene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ < 0.1	^ < 0.1
Fluorene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ < 0.1	^ < 0.1
Phenanthrene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ 0.4	^ < 0.1
Anthracene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ 0.1	^ < 0.1
Fluoranthene	M	mg/kg	0.1	^ 0.1	< 0.1	n/t	^ 0.9	^ < 0.1
Pyrene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ 0.8	^ < 0.1
Benzo(a)anthracene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ 0.4	^ < 0.1
Chrysene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ 0.5	^ < 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ 0.7	^ < 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ 0.8	^ < 0.1
Benzo(a)pyrene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ 0.4	^ < 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ 0.3	^ < 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ 0.1	^ < 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	^ < 0.1	< 0.1	n/t	^ 0.4	^ < 0.1
Total PAH(16)	M	mg/kg	0.4	^ < 0.4	< 0.4	n/t	^ 6.0	^ < 0.4

Results Summary

Report No.: 21-31809, issue number 0

ELAB Reference				225444	225445	225446	225448	225451
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP130	TP151	TP151	TP132	TP132
Sample Depth (m)				0.10	0.20	0.70	0.40	1.80
Sampling Date				20/01/2021	20/01/2021	20/01/2021	20/01/2021	20/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	< 10.0	^ < 10.0	n/t
Toluene	M	ug/kg	10	n/t	n/t	< 10.0	^ < 10.0	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	< 10.0	^ < 10.0	n/t
Xylenes	M	ug/kg	10	n/t	n/t	< 10.0	^ < 10.0	n/t
MTBE	N	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	1.5	< 1.0	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	2.1	< 1.0	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	16.7	< 1.0	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	9.2	< 1.0	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	1.2	< 1.0	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	1.7	< 1.0	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	9.7	< 1.0	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	5.0	< 1.0	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	47.1	< 1.0	n/t

Results Summary

Report No.: 21-31809, issue number 0

ELAB Reference				225454	225458	225459	225460	225464
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP133	TP152	TP138	TP139	WS102
Sample Depth (m)				0.10	0.60	0.10	0.20	0.20
Sampling Date				20/01/2021	20/01/2021	20/01/2021	20/01/2021	20/01/2021
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	66.9	93.4	99.8	50.8	52.5
Description of Inert material removed	N		0	Stones	Stones	All stones	Stones	Stones
Metals								
Arsenic	M	mg/kg	1	^ 9.7	^ 5.5	9.8	^ 5.4	^^ to follow
Cadmium	M	mg/kg	0.5	^ < 0.5	^ < 0.5	< 0.5	^ < 0.5	^^ to follow
Chromium	M	mg/kg	5	^ 34.6	^ 74.0	39.1	^ 13.5	^^ to follow
Copper	M	mg/kg	5	^ 18.2	^ 23.9	11.8	^ < 5.0	^^ to follow
Lead	M	mg/kg	5	^ 28.0	^ 15.8	38.3	^ 6.5	^^ to follow
Mercury	M	mg/kg	0.5	^ < 0.5	^ < 0.5	< 0.5	^ < 0.5	^^ to follow
Nickel	M	mg/kg	5	^ 16.8	^ 60.3	28.1	^ 22.4	^^ to follow
Selenium	M	mg/kg	1	^ < 1.0	^ < 1.0	< 1.0	^ < 1.0	^^ to follow
Zinc	M	mg/kg	5	^ 93.0	^ 79.7	66.1	^ 23.8	^^ to follow
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	^ 12.1	^ 11.6	11.1	^ 9.0	^ to follow
Total Organic Carbon	N	%	0.01	0.24	0.30	0.24	0.06	1.3
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Acenaphthylene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Acenaphthene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Fluorene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Phenanthrene	M	mg/kg	0.1	^ 0.5	^ < 0.1	< 0.1	^ < 0.1	^ 0.2
Anthracene	M	mg/kg	0.1	^ 0.1	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Fluoranthene	M	mg/kg	0.1	^ 0.8	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Pyrene	M	mg/kg	0.1	^ 0.7	^ < 0.1	< 0.1	^ < 0.1	^ 0.1
Benzo(a)anthracene	M	mg/kg	0.1	^ 0.3	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Chrysene	M	mg/kg	0.1	^ 0.4	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	^ 0.5	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	^ 0.5	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Benzo(a)pyrene	M	mg/kg	0.1	^ 0.3	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	^ 0.3	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	^ 0.3	^ < 0.1	< 0.1	^ < 0.1	^ < 0.1
Total PAH(16)	M	mg/kg	0.4	^ 4.9	^ < 0.4	< 0.4	^ < 0.4	^ 1.0

Results Summary

Report No.: 21-31809, issue number 0

ELAB Reference				225454	225458	225459	225460	225464
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP133	TP152	TP138	TP139	WS102
Sample Depth (m)				0.10	0.60	0.10	0.20	0.20
Sampling Date				20/01/2021	20/01/2021	20/01/2021	20/01/2021	20/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	^ < 10.0	< 10.0	n/t	^ < 10.0
Toluene	M	ug/kg	10	n/t	^ < 10.0	< 10.0	n/t	^ < 10.0
Ethylbenzene	M	ug/kg	10	n/t	^ < 10.0	< 10.0	n/t	^ < 10.0
Xylenes	M	ug/kg	10	n/t	^ < 10.0	< 10.0	n/t	^ < 10.0
MTBE	N	ug/kg	10	n/t	< 10.0	< 10.0	n/t	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	3.3
>C10-C12 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	4.8
>C12-C16 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	19.8
>C16-C21 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	38.1
>C21-C35 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	209
>C35-C40 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	178
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	2.0
>C10-C12 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	3.6
>C12-C16 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	26.4
>C16-C21 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	76.5
>C21-C35 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	297
>C35-C40 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	313
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	1170

Results Summary

Report No.: 21-31809, issue number 0

ELAB Reference	225468	225471
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	WS108	WS113
Sample Depth (m)	1.00	0.70
Sampling Date	20/01/2021	20/01/2021

Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Material removed	N	%	0.1	< 0.1	61.0
Description of Inert material removed	N		0	None	Stones
Metals					
Arsenic	M	mg/kg	1	*^ to follow	*^ to follow
Cadmium	M	mg/kg	0.5	*^ to follow	*^ to follow
Chromium	M	mg/kg	5	*^ to follow	*^ to follow
Copper	M	mg/kg	5	*^ to follow	*^ to follow
Lead	M	mg/kg	5	*^ to follow	*^ to follow
Mercury	M	mg/kg	0.5	*^ to follow	*^ to follow
Nickel	M	mg/kg	5	*^ to follow	*^ to follow
Selenium	M	mg/kg	1	*^ to follow	*^ to follow
Zinc	M	mg/kg	5	*^ to follow	*^ to follow
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Miscellaneous					
pH	M	pH units	0.1	^ to follow	^ to follow
Total Organic Carbon	N	%	0.01	0.83	1.1
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Acenaphthylene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Acenaphthene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Fluorene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Phenanthrene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Anthracene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Fluoranthene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Pyrene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Benzo(a)anthracene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Chrysene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Benzo(a)pyrene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	^ < 0.1	^ < 0.1
Total PAH(16)	M	mg/kg	0.4	^ < 0.4	^ < 0.4

Results Summary

Report No.: 21-31809, issue number 0

ELAB Reference	225468	225471
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	WS108	WS113
Sample Depth (m)	1.00	0.70
Sampling Date	20/01/2021	20/01/2021

Determinand	Codes	Units	LOD		
BTEX					
Benzene	M	ug/kg	10	n/t	n/t
Toluene	M	ug/kg	10	n/t	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t
Xylenes	M	ug/kg	10	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t
TPH CWG					
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t

Results Summary

Report No.: 21-31809, issue number 0

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
225415	0.10	TP147	Chalky Sandy Soil,Stones,Glass,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225416	0.70	TP147	Brown Sandy	No asbestos detected	n/t	n/t	n/t	n/t
225419	0.60	TP117	Brown sandy Soil,stones,Clinker,Brick	No asbestos detected	n/t	n/t	n/t	n/t
225420	0.90	TP117	Brown sandy Soil	No asbestos detected	n/t	n/t	n/t	n/t
225423	0.50	TP118	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225427	0.25	TP120	Brown sandy Soil,stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225428	0.10	TP121	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225429	0.30	TP121	Brown Sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225430	0.20	TP129	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225432	0.80	TP129	Brown sandy Soil,Stones,Concrete,Clinker	No asbestos detected	n/t	n/t	n/t	n/t
225433	0.10	TP128	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225437	1.90	TP128	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225439	0.50	TP122	Brown Soil,Stoners	No asbestos detected	n/t	n/t	n/t	n/t
225442	0.10	TP150	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225444	0.10	TP130	Brown sandy Soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
225445	0.20	TP151	Brown Sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225448	0.40	TP132	Brown sandy Soil,Stones,Plastic,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225451	1.80	TP132	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225454	0.10	TP133	Brown sandy Soil,Stones,Concrete	Chrysotile (Bitumen)	n/t	n/t	n/t	n/t
225458	0.60	TP152	Brown sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225459	0.10	TP138	Brown sandy soil, stones, concrete, brick	No asbestos detected	n/t	n/t	n/t	n/t
225460	0.20	TP139	Brown sandy soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
225464	0.20	WS102	Brown sandy Soil,Stones,Concrete,Tar	No asbestos detected	n/t	n/t	n/t	n/t
225468	1.00	WS108	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
225470	0.30	WS113	Brown Sandy Soil,Stones,Brick,concrete	No asbestos detected	n/t	n/t	n/t	n/t
225471	0.70	WS113	Brown Sandy Soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-31809, issue number 0

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	27/01/2021	110	Colorimetry
pH	M	Air dried sample	28/01/2021	113	Electromeric
PAH (GC-FID)	M	As submitted sample	27/01/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	29/01/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	29/01/2021	181	GC-MS
BTEX in solids	M	As submitted sample	29/01/2021	181A	GC-MS
Total organic carbon/Total sulphur	N	Air dried sample	28/01/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	27/01/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	29/01/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	27/01/2021	214	GC-FID
Asbestos identification	U	Air dried sample	28/01/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	27/01/2021	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-31809, issue number 0

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-31809

Issue: 1

Date of Issue: 03/02/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3189

Customer Reference: LP2441

Date Received: 21/01/2021

Date Approved: 03/02/2021

Details: Novartis - Horsham

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-31809, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
225415	TP147 0.10	18/01/2021	25/01/2021	Loamy sand	
225416	TP147 0.70	18/01/2021	25/01/2021	Sandy loam	
225417	TP117 0.10	19/01/2021	25/01/2021		
225418	TP117 0.40	19/01/2021	25/01/2021		
225419	TP117 0.60	19/01/2021	25/01/2021	Sandy silty loam	
225420	TP117 0.90	19/01/2021	25/01/2021	Silty clayey loam	
225421	TP117 1.20	19/01/2021	25/01/2021		
225422	TP118 0.10	19/01/2021	25/01/2021		
225423	TP118 0.50	19/01/2021	25/01/2021	Loamy sand	
225424	TP118 0.90	19/01/2021	25/01/2021		
225425	TP118 1.50	19/01/2021	25/01/2021		
225426	TP120 0.10	19/01/2021	25/01/2021		
225427	TP120 0.25	19/01/2021	25/01/2021	Loamy sand	
225428	TP121 0.10	19/01/2021	25/01/2021	Loamy sand	
225429	TP121 0.30	19/01/2021	25/01/2021	Loamy sand	
225430	TP129 0.20	19/01/2021	25/01/2021	Loamy sand	
225431	TP129 0.50	19/01/2021	25/01/2021		
225432	TP129 0.80	19/01/2021	25/01/2021	Sandy loam	
225433	TP128 0.10	19/01/2021	25/01/2021	Loamy sand	
225434	TP128 0.50	19/01/2021	25/01/2021		
225435	TP128 0.90	19/01/2021	25/01/2021		
225436	TP128 1.30	19/01/2021	25/01/2021		
225437	TP128 1.90	19/01/2021	25/01/2021	Silty clayey loam	
225438	TP122 0.10	19/01/2021	25/01/2021		
225439	TP122 0.50	19/01/2021	25/01/2021	Sandy loam	
225440	TP122 0.90	19/01/2021	25/01/2021		
225441	TP122 1.40	19/01/2021	25/01/2021		
225442	TP150 0.10	19/01/2021	25/01/2021	Silty loam	
225443	TP150 0.30	19/01/2021	25/01/2021	Sand	
225444	TP130 0.10	20/01/2021	25/01/2021	Silty loam	
225445	TP151 0.20	20/01/2021	25/01/2021	Loamy sand	
225446	TP151 0.70	20/01/2021	25/01/2021	Loamy sand	
225447	TP132 0.10	20/01/2021	25/01/2021		
225448	TP132 0.40	20/01/2021	25/01/2021	Sandy loam	
225449	TP132 0.80	20/01/2021	25/01/2021		
225450	TP132 1.20	20/01/2021	25/01/2021		
225451	TP132 1.80	20/01/2021	25/01/2021	Sandy loam	
225452	TP135 0.10	20/01/2021	25/01/2021		
225453	TP135 0.40	20/01/2021	25/01/2021		
225454	TP133 0.10	20/01/2021	25/01/2021	Loamy sand	
225455	TP133 0.80	20/01/2021	25/01/2021		
225456	TP133 1.50	20/01/2021	25/01/2021		
225457	TP152 0.20	20/01/2021	25/01/2021		
225458	TP152 0.60	20/01/2021	25/01/2021	stones	
225459	TP138 0.10	20/01/2021	25/01/2021	Loamy sand	
225460	TP139 0.20	20/01/2021	25/01/2021	Sand	
225461	TP139 0.50	20/01/2021	25/01/2021		
225462	WS101 0.15	20/01/2021	25/01/2021		
225463	WS101 1.40	20/01/2021	25/01/2021		
225464	WS102 0.20	20/01/2021	25/01/2021	Loamy sand	
225465	WS104 0.40	20/01/2021	25/01/2021		
225466	WS107 0.40	20/01/2021	25/01/2021		
225467	WS108 0.50	20/01/2021	25/01/2021		
225468	WS108 1.00	20/01/2021	25/01/2021	Clayey loam	
225469	WS112 0.20	20/01/2021	25/01/2021		
225470	WS113 0.30	20/01/2021	25/01/2021		



Sample Summary

Report No.: 21-31809, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
225471	WS113 0.70	20/01/2021	25/01/2021	Sandy loam	

Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225415	225416	225419	225420	225423
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP147	TP147	TP117	TP117	TP118
Sample Depth (m)	0.10	0.70	0.60	0.90	0.50
Sampling Date	18/01/2021	18/01/2021	19/01/2021	19/01/2021	19/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	68.7	77.0	27.1	< 0.1	69.0
Description of Inert material removed	N		0	Stones	Stones	Stones,brick	None	Stones
Metals								
Arsenic	M	mg/kg	1	11.1	9.7	14.0	6.5	10.7
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	32.6	28.2	21.6	19.7	62.1
Copper	M	mg/kg	5	25.5	27.6	37.5	19.1	31.1
Lead	M	mg/kg	5	34.0	40.5	57.3	30.2	46.5
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	19.9	21.6	20.6	10.4	41.9
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	85.0	99.2	75.7	44.2	130
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	11.9	11.6	9.3	7.5	11.9
Total Organic Carbon	N	%	0.01	0.29	0.28	1.0	0.96	0.27
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	0.4	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.1	< 0.1	1.3	< 0.1	0.2
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	1.1	< 0.1	0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	0.7	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	0.8	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	0.7	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	1.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.7	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.6	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	0.5	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	0.4	0.4	8.3	< 0.4	0.5



Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference				225415	225416	225419	225420	225423
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP147	TP147	TP117	TP117	TP118
Sample Depth (m)				0.10	0.70	0.60	0.90	0.50
Sampling Date				18/01/2021	18/01/2021	19/01/2021	19/01/2021	19/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
Toluene	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
Xylenes	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
MTBE	N	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	42.8	< 1.0	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	70.3	< 1.0	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	1.2	< 1.0	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	106	< 1.0	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	166	< 1.0	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	387	< 1.0	n/t

Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225427	225428	225429	225430	225432
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP120	TP121	TP121	TP129	TP129
Sample Depth (m)	0.25	0.10	0.30	0.20	0.80
Sampling Date	19/01/2021	19/01/2021	19/01/2021	19/01/2021	19/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	62.9	66.2	61.1	59.2	99.7
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	All stones
Metals								
Arsenic	M	mg/kg	1	12.4	12.9	13.0	12.2	10.0
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	80.7	78.7	87.5	83.6	30.2
Copper	M	mg/kg	5	29.6	33.9	32.8	32.1	16.6
Lead	M	mg/kg	5	116	58.6	61.7	136	20.0
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	55.4	55.8	58.0	56.0	19.9
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	269	196	186	244	67.8
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	11.7	11.4	12.0	11.8	11.1
Total Organic Carbon	N	%	0.01	0.43	0.43	0.32	0.46	0.22
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	0.1	0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	0.5	< 0.4	< 0.4



Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference				225427	225428	225429	225430	225432
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP120	TP121	TP121	TP129	TP129
Sample Depth (m)				0.25	0.10	0.30	0.20	0.80
Sampling Date				19/01/2021	19/01/2021	19/01/2021	19/01/2021	19/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Toluene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Xylenes	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t

Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225433	225437	225439	225442	225443
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP128	TP128	TP122	TP150	TP150
Sample Depth (m)	0.10	1.90	0.50	0.10	0.30
Sampling Date	19/01/2021	19/01/2021	19/01/2021	19/01/2021	19/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	60.6	17.8	27.0	19.8	n/t
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	n/t
Metals								
Arsenic	M	mg/kg	1	10.9	5.3	8.9	8.6	n/t
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t
Chromium	M	mg/kg	5	69.6	30.7	32.1	25.7	n/t
Copper	M	mg/kg	5	29.8	15.1	16.2	14.4	n/t
Lead	M	mg/kg	5	547	26.4	35.6	23.3	n/t
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t
Nickel	M	mg/kg	5	47.7	23.2	21.0	22.0	n/t
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	n/t
Zinc	M	mg/kg	5	156	66.3	79.1	78.3	n/t
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	n/t
Miscellaneous								
pH	M	pH units	0.1	11.8	9.9	11.5	8.8	n/t
Total Organic Carbon	N	%	0.01	0.30	0.36	0.27	0.48	n/t
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.1	n/t
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.9	n/t
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.4	n/t
Fluoranthene	M	mg/kg	0.1	0.3	< 0.1	0.5	2.0	n/t
Pyrene	M	mg/kg	0.1	0.3	< 0.1	0.5	1.5	n/t
Benzo(a)anthracene	M	mg/kg	0.1	0.2	< 0.1	0.4	1.1	n/t
Chrysene	M	mg/kg	0.1	0.2	< 0.1	0.4	1.0	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	0.5	< 0.1	0.6	1.1	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	0.5	< 0.1	0.6	1.2	n/t
Benzo(a)pyrene	M	mg/kg	0.1	0.2	< 0.1	0.4	0.9	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.1	< 0.1	0.3	0.6	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	0.1	0.2	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.2	< 0.1	0.3	0.5	n/t
Total PAH(16)	M	mg/kg	0.4	2.7	< 0.4	4.4	11.4	n/t



Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference				225433	225437	225439	225442	225443
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP128	TP128	TP122	TP150	TP150
Sample Depth (m)				0.10	1.90	0.50	0.10	0.30
Sampling Date				19/01/2021	19/01/2021	19/01/2021	19/01/2021	19/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Toluene	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Ethylbenzene	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Xylenes	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	1.1
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	1.7
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	1.2
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	13.5
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	6.5
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	24.0

Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225444	225445	225446	225448	225451
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP130	TP151	TP151	TP132	TP132
Sample Depth (m)	0.10	0.20	0.70	0.40	1.80
Sampling Date	20/01/2021	20/01/2021	20/01/2021	20/01/2021	20/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	15.7	62.1	n/t	56.2	38.4
Description of Inert material removed	N		0	Stones	Stones	n/t	Stones	Stones
Metals								
Arsenic	M	mg/kg	1	9.6	13.3	n/t	8.8	7.0
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	n/t	< 0.5	< 0.5
Chromium	M	mg/kg	5	24.1	82.1	n/t	35.2	27.8
Copper	M	mg/kg	5	15.3	37.5	n/t	16.7	14.3
Lead	M	mg/kg	5	42.7	164	n/t	61.4	26.1
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	n/t	< 0.5	< 0.5
Nickel	M	mg/kg	5	16.6	51.4	n/t	27.7	21.0
Selenium	M	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	< 1.0
Zinc	M	mg/kg	5	83.2	306	n/t	197	85.5
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	n/t	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	8.9	11.6	n/t	11.0	11.1
Total Organic Carbon	N	%	0.01	1.7	0.53	n/t	0.40	0.36
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.4	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.1	< 0.1	n/t	0.9	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.8	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.4	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.5	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.7	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.8	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.4	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.3	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.4	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	n/t	6.0	< 0.4



Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference				225444	225445	225446	225448	225451
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP130	TP151	TP151	TP132	TP132
Sample Depth (m)				0.10	0.20	0.70	0.40	1.80
Sampling Date				20/01/2021	20/01/2021	20/01/2021	20/01/2021	20/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
Toluene	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
Xylenes	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
MTBE	N	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	1.5	< 1.0	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	2.1	< 1.0	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	16.7	< 1.0	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	9.2	< 1.0	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	1.2	< 1.0	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	1.7	< 1.0	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	9.7	< 1.0	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	5.0	< 1.0	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	47.1	< 1.0	n/t

Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225454	225458	225459	225460	225464
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP133	TP152	TP138	TP139	WS102
Sample Depth (m)	0.10	0.60	0.10	0.20	0.20
Sampling Date	20/01/2021	20/01/2021	20/01/2021	20/01/2021	20/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	66.9	93.4	99.8	50.8	52.5
Description of Inert material removed	N		0	Stones	Stones	All stones	Stones	Stones
Metals								
Arsenic	M	mg/kg	1	9.7	^ 5.5	9.8	5.4	8.5
Cadmium	M	mg/kg	0.5	< 0.5	^ < 0.5	< 0.5	< 0.5	1.0
Chromium	M	mg/kg	5	34.6	^ 74.0	39.1	13.5	19.6
Copper	M	mg/kg	5	18.2	^ 23.9	11.8	< 5.0	7.8
Lead	M	mg/kg	5	28.0	^ 15.8	38.3	6.5	33.9
Mercury	M	mg/kg	0.5	< 0.5	^ < 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	16.8	^ 60.3	28.1	22.4	12.0
Selenium	M	mg/kg	1	< 1.0	^ < 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	93.0	^ 79.7	66.1	23.8	111
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	12.1	^ 11.6	11.1	9.0	9.0
Total Organic Carbon	N	%	0.01	0.24	0.30	0.24	0.06	1.3
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	^ < 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	^ < 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	^ < 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	^ < 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.5	^ < 0.1	< 0.1	< 0.1	0.2
Anthracene	M	mg/kg	0.1	0.1	^ < 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.8	^ < 0.1	< 0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	0.7	^ < 0.1	< 0.1	< 0.1	0.1
Benzo(a)anthracene	M	mg/kg	0.1	0.3	^ < 0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	0.4	^ < 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	0.5	^ < 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	0.5	^ < 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	0.3	^ < 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.3	^ < 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	^ < 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.3	^ < 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	4.9	^ < 0.4	< 0.4	< 0.4	1.0



Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference				225454	225458	225459	225460	225464
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP133	TP152	TP138	TP139	WS102
Sample Depth (m)				0.10	0.60	0.10	0.20	0.20
Sampling Date				20/01/2021	20/01/2021	20/01/2021	20/01/2021	20/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	^ < 10.0	< 10.0	n/t	< 10.0
Toluene	M	ug/kg	10	n/t	^ < 10.0	< 10.0	n/t	< 10.0
Ethylbenzene	M	ug/kg	10	n/t	^ < 10.0	< 10.0	n/t	< 10.0
Xylenes	M	ug/kg	10	n/t	^ < 10.0	< 10.0	n/t	< 10.0
MTBE	N	ug/kg	10	n/t	< 10.0	< 10.0	n/t	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	3.3
>C10-C12 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	4.8
>C12-C16 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	19.8
>C16-C21 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	38.1
>C21-C35 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	209
>C35-C40 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	178
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	2.0
>C10-C12 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	3.6
>C12-C16 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	26.4
>C16-C21 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	76.5
>C21-C35 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	297
>C35-C40 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	313
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	1170

Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225468	225471
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	WS108	WS113
Sample Depth (m)	1.00	0.70
Sampling Date	20/01/2021	20/01/2021

Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Material removed	N	%	0.1	< 0.1	61.0
Description of Inert material removed	N		0	None	Stones
Metals					
Arsenic	M	mg/kg	1	12.3	29.4
Cadmium	M	mg/kg	0.5	< 0.5	1.4
Chromium	M	mg/kg	5	30.7	14.4
Copper	M	mg/kg	5	139	19.3
Lead	M	mg/kg	5	28.6	320
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	15.0	12.4
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	85.4	327
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Miscellaneous					
pH	M	pH units	0.1	7.2	10.9
Total Organic Carbon	N	%	0.01	0.83	1.1
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4



Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225468	225471
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	WS108	WS113
Sample Depth (m)	1.00	0.70
Sampling Date	20/01/2021	20/01/2021

Determinand	Codes	Units	LOD		
BTEX					
Benzene	M	ug/kg	10	n/t	n/t
Toluene	M	ug/kg	10	n/t	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t
Xylenes	M	ug/kg	10	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t
TPH CWG					
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t

Results Summary

Report No.: 21-31809, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
225415	0.10	TP147	Chalky Sandy Soil,Stones,Glass,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225416	0.70	TP147	Brown Sandy	No asbestos detected	n/t	n/t	n/t	n/t
225419	0.60	TP117	Brown sandy Soil,stones,Clinker,Brick	No asbestos detected	n/t	n/t	n/t	n/t
225420	0.90	TP117	Brown sandy Soil	No asbestos detected	n/t	n/t	n/t	n/t
225423	0.50	TP118	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225427	0.25	TP120	Brown sandy Soil,stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225428	0.10	TP121	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225429	0.30	TP121	Brown Sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225430	0.20	TP129	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225432	0.80	TP129	Brown sandy Soil,Stones,Concrete,Clinker	No asbestos detected	n/t	n/t	n/t	n/t
225433	0.10	TP128	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225437	1.90	TP128	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225439	0.50	TP122	Brown Soil,Stoners	No asbestos detected	n/t	n/t	n/t	n/t
225442	0.10	TP150	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225444	0.10	TP130	Brown sandy Soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
225445	0.20	TP151	Brown Sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225448	0.40	TP132	Brown sandy Soil,Stones,Plastic,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225451	1.80	TP132	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225454	0.10	TP133	Brown sandy Soil,Stones,Concrete	Chrysotile (Bitumen)	n/t	n/t	n/t	n/t
225458	0.60	TP152	Brown sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225459	0.10	TP138	Brown sandy soil, stones, concrete, brick	No asbestos detected	n/t	n/t	n/t	n/t
225460	0.20	TP139	Brown sandy soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
225464	0.20	WS102	Brown sandy Soil,Stones,Concrete,Tar	No asbestos detected	n/t	n/t	n/t	n/t
225468	1.00	WS108	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
225470	0.30	WS113	Brown Sandy Soil,Stones,Brick,concrete	No asbestos detected	n/t	n/t	n/t	n/t
225471	0.70	WS113	Brown Sandy Soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-31809, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	27/01/2021	110	Colorimetry
pH	M	Air dried sample	28/01/2021	113	Electromeric
PAH (GC-FID)	M	As submitted sample	27/01/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	29/01/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	29/01/2021	181	GC-MS
BTEX in solids	M	As submitted sample	29/01/2021	181A	GC-MS
Total organic carbon/Total sulphur	N	Air dried sample	28/01/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	27/01/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	29/01/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	27/01/2021	214	GC-FID
Asbestos identification	U	Air dried sample	28/01/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	27/01/2021	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-31809, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-31809

Issue: 1

Date of Issue: 03/02/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3189

Customer Reference: LP2441

Date Received: 21/01/2021

Date Approved: 03/02/2021

Details: Novartis - Horsham

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-31809, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
225415	TP147 0.10	18/01/2021	25/01/2021	Loamy sand	
225416	TP147 0.70	18/01/2021	25/01/2021	Sandy loam	
225417	TP117 0.10	19/01/2021	25/01/2021		
225418	TP117 0.40	19/01/2021	25/01/2021		
225419	TP117 0.60	19/01/2021	25/01/2021	Sandy silty loam	
225420	TP117 0.90	19/01/2021	25/01/2021	Silty clayey loam	
225421	TP117 1.20	19/01/2021	25/01/2021		
225422	TP118 0.10	19/01/2021	25/01/2021		
225423	TP118 0.50	19/01/2021	25/01/2021	Loamy sand	
225424	TP118 0.90	19/01/2021	25/01/2021		
225425	TP118 1.50	19/01/2021	25/01/2021		
225426	TP120 0.10	19/01/2021	25/01/2021		
225427	TP120 0.25	19/01/2021	25/01/2021	Loamy sand	
225428	TP121 0.10	19/01/2021	25/01/2021	Loamy sand	
225429	TP121 0.30	19/01/2021	25/01/2021	Loamy sand	
225430	TP129 0.20	19/01/2021	25/01/2021	Loamy sand	
225431	TP129 0.50	19/01/2021	25/01/2021		
225432	TP129 0.80	19/01/2021	25/01/2021	Sandy loam	
225433	TP128 0.10	19/01/2021	25/01/2021	Loamy sand	
225434	TP128 0.50	19/01/2021	25/01/2021		
225435	TP128 0.90	19/01/2021	25/01/2021		
225436	TP128 1.30	19/01/2021	25/01/2021		
225437	TP128 1.90	19/01/2021	25/01/2021	Silty clayey loam	
225438	TP122 0.10	19/01/2021	25/01/2021		
225439	TP122 0.50	19/01/2021	25/01/2021	Sandy loam	
225440	TP122 0.90	19/01/2021	25/01/2021		
225441	TP122 1.40	19/01/2021	25/01/2021		
225442	TP150 0.10	19/01/2021	25/01/2021	Silty loam	
225443	TP150 0.30	19/01/2021	25/01/2021	Sand	
225444	TP130 0.10	20/01/2021	25/01/2021	Silty loam	
225445	TP151 0.20	20/01/2021	25/01/2021	Loamy sand	
225446	TP151 0.70	20/01/2021	25/01/2021	Loamy sand	
225447	TP132 0.10	20/01/2021	25/01/2021		
225448	TP132 0.40	20/01/2021	25/01/2021	Sandy loam	
225449	TP132 0.80	20/01/2021	25/01/2021		
225450	TP132 1.20	20/01/2021	25/01/2021		
225451	TP132 1.80	20/01/2021	25/01/2021	Sandy loam	
225452	TP135 0.10	20/01/2021	25/01/2021		
225453	TP135 0.40	20/01/2021	25/01/2021		
225454	TP133 0.10	20/01/2021	25/01/2021	Loamy sand	
225455	TP133 0.80	20/01/2021	25/01/2021		
225456	TP133 1.50	20/01/2021	25/01/2021		
225457	TP152 0.20	20/01/2021	25/01/2021		
225458	TP152 0.60	20/01/2021	25/01/2021	stones	
225459	TP138 0.10	20/01/2021	25/01/2021	Loamy sand	
225460	TP139 0.20	20/01/2021	25/01/2021	Sand	
225461	TP139 0.50	20/01/2021	25/01/2021		
225462	WS101 0.15	20/01/2021	25/01/2021		
225463	WS101 1.40	20/01/2021	25/01/2021		
225464	WS102 0.20	20/01/2021	25/01/2021	Loamy sand	
225465	WS104 0.40	20/01/2021	25/01/2021		
225466	WS107 0.40	20/01/2021	25/01/2021		
225467	WS108 0.50	20/01/2021	25/01/2021		
225468	WS108 1.00	20/01/2021	25/01/2021	Clayey loam	
225469	WS112 0.20	20/01/2021	25/01/2021		
225470	WS113 0.30	20/01/2021	25/01/2021		



Sample Summary

Report No.: 21-31809, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
225471	WS113 0.70	20/01/2021	25/01/2021	Sandy loam	

Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225415	225416	225419	225420	225423
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP147	TP147	TP117	TP117	TP118
Sample Depth (m)	0.10	0.70	0.60	0.90	0.50
Sampling Date	18/01/2021	18/01/2021	19/01/2021	19/01/2021	19/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	68.7	77.0	27.1	< 0.1	69.0
Description of Inert material removed	N		0	Stones	Stones	Stones,brick	None	Stones
Metals								
Arsenic	M	mg/kg	1	11.1	9.7	14.0	6.5	10.7
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	32.6	28.2	21.6	19.7	62.1
Copper	M	mg/kg	5	25.5	27.6	37.5	19.1	31.1
Lead	M	mg/kg	5	34.0	40.5	57.3	30.2	46.5
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	19.9	21.6	20.6	10.4	41.9
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	85.0	99.2	75.7	44.2	130
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	11.9	11.6	9.3	7.5	11.9
Total Organic Carbon	N	%	0.01	0.29	0.28	1.0	0.96	0.27
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	0.4	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.1	< 0.1	1.3	< 0.1	0.2
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	1.1	< 0.1	0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	0.7	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	0.8	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	0.7	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	1.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.7	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.6	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	0.5	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	0.4	0.4	8.3	< 0.4	0.5



Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference				225415	225416	225419	225420	225423
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP147	TP147	TP117	TP117	TP118
Sample Depth (m)				0.10	0.70	0.60	0.90	0.50
Sampling Date				18/01/2021	18/01/2021	19/01/2021	19/01/2021	19/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
Toluene	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
Xylenes	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
MTBE	N	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	42.8	< 1.0	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	70.3	< 1.0	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	1.2	< 1.0	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	106	< 1.0	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	166	< 1.0	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	387	< 1.0	n/t

Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225427	225428	225429	225430	225432
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP120	TP121	TP121	TP129	TP129
Sample Depth (m)	0.25	0.10	0.30	0.20	0.80
Sampling Date	19/01/2021	19/01/2021	19/01/2021	19/01/2021	19/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	62.9	66.2	61.1	59.2	99.7
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	All stones
Metals								
Arsenic	M	mg/kg	1	12.4	12.9	13.0	12.2	10.0
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	80.7	78.7	87.5	83.6	30.2
Copper	M	mg/kg	5	29.6	33.9	32.8	32.1	16.6
Lead	M	mg/kg	5	116	58.6	61.7	136	20.0
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	55.4	55.8	58.0	56.0	19.9
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	269	196	186	244	67.8
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	11.7	11.4	12.0	11.8	11.1
Total Organic Carbon	N	%	0.01	0.43	0.43	0.32	0.46	0.22
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	0.1	0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	0.5	< 0.4	< 0.4



Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference				225427	225428	225429	225430	225432
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP120	TP121	TP121	TP129	TP129
Sample Depth (m)				0.25	0.10	0.30	0.20	0.80
Sampling Date				19/01/2021	19/01/2021	19/01/2021	19/01/2021	19/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Toluene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Xylenes	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t

Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225433	225437	225439	225442	225443
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP128	TP128	TP122	TP150	TP150
Sample Depth (m)	0.10	1.90	0.50	0.10	0.30
Sampling Date	19/01/2021	19/01/2021	19/01/2021	19/01/2021	19/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	60.6	17.8	27.0	19.8	n/t
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	n/t
Metals								
Arsenic	M	mg/kg	1	10.9	5.3	8.9	8.6	n/t
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t
Chromium	M	mg/kg	5	69.6	30.7	32.1	25.7	n/t
Copper	M	mg/kg	5	29.8	15.1	16.2	14.4	n/t
Lead	M	mg/kg	5	547	26.4	35.6	23.3	n/t
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t
Nickel	M	mg/kg	5	47.7	23.2	21.0	22.0	n/t
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	n/t
Zinc	M	mg/kg	5	156	66.3	79.1	78.3	n/t
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	n/t
Miscellaneous								
pH	M	pH units	0.1	11.8	9.9	11.5	8.8	n/t
Total Organic Carbon	N	%	0.01	0.30	0.36	0.27	0.48	n/t
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.1	n/t
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.9	n/t
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.4	n/t
Fluoranthene	M	mg/kg	0.1	0.3	< 0.1	0.5	2.0	n/t
Pyrene	M	mg/kg	0.1	0.3	< 0.1	0.5	1.5	n/t
Benzo(a)anthracene	M	mg/kg	0.1	0.2	< 0.1	0.4	1.1	n/t
Chrysene	M	mg/kg	0.1	0.2	< 0.1	0.4	1.0	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	0.5	< 0.1	0.6	1.1	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	0.5	< 0.1	0.6	1.2	n/t
Benzo(a)pyrene	M	mg/kg	0.1	0.2	< 0.1	0.4	0.9	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.1	< 0.1	0.3	0.6	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	0.1	0.2	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.2	< 0.1	0.3	0.5	n/t
Total PAH(16)	M	mg/kg	0.4	2.7	< 0.4	4.4	11.4	n/t



Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference				225433	225437	225439	225442	225443
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP128	TP128	TP122	TP150	TP150
Sample Depth (m)				0.10	1.90	0.50	0.10	0.30
Sampling Date				19/01/2021	19/01/2021	19/01/2021	19/01/2021	19/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Toluene	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Ethylbenzene	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Xylenes	M	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	1.1
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	1.7
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	1.2
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	13.5
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	6.5
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	24.0

Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225444	225445	225446	225448	225451
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP130	TP151	TP151	TP132	TP132
Sample Depth (m)	0.10	0.20	0.70	0.40	1.80
Sampling Date	20/01/2021	20/01/2021	20/01/2021	20/01/2021	20/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	15.7	62.1	n/t	56.2	38.4
Description of Inert material removed	N		0	Stones	Stones	n/t	Stones	Stones
Metals								
Arsenic	M	mg/kg	1	9.6	13.3	n/t	8.8	7.0
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	n/t	< 0.5	< 0.5
Chromium	M	mg/kg	5	24.1	82.1	n/t	35.2	27.8
Copper	M	mg/kg	5	15.3	37.5	n/t	16.7	14.3
Lead	M	mg/kg	5	42.7	164	n/t	61.4	26.1
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	n/t	< 0.5	< 0.5
Nickel	M	mg/kg	5	16.6	51.4	n/t	27.7	21.0
Selenium	M	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	< 1.0
Zinc	M	mg/kg	5	83.2	306	n/t	197	85.5
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	n/t	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	8.9	11.6	n/t	11.0	11.1
Total Organic Carbon	N	%	0.01	1.7	0.53	n/t	0.40	0.36
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.4	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.1	< 0.1	n/t	0.9	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.8	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.4	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.5	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.7	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.8	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.4	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.3	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	n/t	0.4	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	n/t	6.0	< 0.4



Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference				225444	225445	225446	225448	225451
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP130	TP151	TP151	TP132	TP132
Sample Depth (m)				0.10	0.20	0.70	0.40	1.80
Sampling Date				20/01/2021	20/01/2021	20/01/2021	20/01/2021	20/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
Toluene	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
Xylenes	M	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
MTBE	N	ug/kg	10	n/t	n/t	< 10.0	< 10.0	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	1.5	< 1.0	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	2.1	< 1.0	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	16.7	< 1.0	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	9.2	< 1.0	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	< 1.0	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	1.2	< 1.0	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	1.7	< 1.0	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	9.7	< 1.0	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	5.0	< 1.0	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	47.1	< 1.0	n/t

Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225454	225458	225459	225460	225464
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP133	TP152	TP138	TP139	WS102
Sample Depth (m)	0.10	0.60	0.10	0.20	0.20
Sampling Date	20/01/2021	20/01/2021	20/01/2021	20/01/2021	20/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	66.9	93.4	99.8	50.8	52.5
Description of Inert material removed	N		0	Stones	Stones	All stones	Stones	Stones
Metals								
Arsenic	M	mg/kg	1	9.7	^ 5.5	9.8	5.4	8.5
Cadmium	M	mg/kg	0.5	< 0.5	^ < 0.5	< 0.5	< 0.5	1.0
Chromium	M	mg/kg	5	34.6	^ 74.0	39.1	13.5	19.6
Copper	M	mg/kg	5	18.2	^ 23.9	11.8	< 5.0	7.8
Lead	M	mg/kg	5	28.0	^ 15.8	38.3	6.5	33.9
Mercury	M	mg/kg	0.5	< 0.5	^ < 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	16.8	^ 60.3	28.1	22.4	12.0
Selenium	M	mg/kg	1	< 1.0	^ < 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	93.0	^ 79.7	66.1	23.8	111
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	12.1	^ 11.6	11.1	9.0	9.0
Total Organic Carbon	N	%	0.01	0.24	0.30	0.24	0.06	1.3
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	^ < 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	^ < 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	^ < 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	^ < 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.5	^ < 0.1	< 0.1	< 0.1	0.2
Anthracene	M	mg/kg	0.1	0.1	^ < 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.8	^ < 0.1	< 0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	0.7	^ < 0.1	< 0.1	< 0.1	0.1
Benzo(a)anthracene	M	mg/kg	0.1	0.3	^ < 0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	0.4	^ < 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	0.5	^ < 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	0.5	^ < 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	0.3	^ < 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.3	^ < 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	^ < 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.3	^ < 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	4.9	^ < 0.4	< 0.4	< 0.4	1.0

Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225454	225458	225459	225460	225464
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP133	TP152	TP138	TP139	WS102
Sample Depth (m)	0.10	0.60	0.10	0.20	0.20
Sampling Date	20/01/2021	20/01/2021	20/01/2021	20/01/2021	20/01/2021

Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	^ < 10.0	< 10.0	n/t	< 10.0
Toluene	M	ug/kg	10	n/t	^ < 10.0	< 10.0	n/t	< 10.0
Ethylbenzene	M	ug/kg	10	n/t	^ < 10.0	< 10.0	n/t	< 10.0
Xylenes	M	ug/kg	10	n/t	^ < 10.0	< 10.0	n/t	< 10.0
MTBE	N	ug/kg	10	n/t	< 10.0	< 10.0	n/t	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	3.3
>C10-C12 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	4.8
>C12-C16 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	19.8
>C16-C21 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	38.1
>C21-C35 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	209
>C35-C40 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	178
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	2.0
>C10-C12 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	3.6
>C12-C16 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	26.4
>C16-C21 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	76.5
>C21-C35 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	297
>C35-C40 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	313
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	1170

Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225468	225471
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	WS108	WS113
Sample Depth (m)	1.00	0.70
Sampling Date	20/01/2021	20/01/2021

Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Material removed	N	%	0.1	< 0.1	61.0
Description of Inert material removed	N		0	None	Stones
Metals					
Arsenic	M	mg/kg	1	12.3	29.4
Cadmium	M	mg/kg	0.5	< 0.5	1.4
Chromium	M	mg/kg	5	30.7	14.4
Copper	M	mg/kg	5	139	19.3
Lead	M	mg/kg	5	28.6	320
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	15.0	12.4
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	85.4	327
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Miscellaneous					
pH	M	pH units	0.1	7.2	10.9
Total Organic Carbon	N	%	0.01	0.83	1.1
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4



Results Summary

2683

Report No.: 21-31809, issue number 1

ELAB Reference	225468	225471
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	WS108	WS113
Sample Depth (m)	1.00	0.70
Sampling Date	20/01/2021	20/01/2021

Determinand	Codes	Units	LOD		
BTEX					
Benzene	M	ug/kg	10	n/t	n/t
Toluene	M	ug/kg	10	n/t	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t
Xylenes	M	ug/kg	10	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t
TPH CWG					
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t

Results Summary

Report No.: 21-31809, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
225415	0.10	TP147	Chalky Sandy Soil,Stones,Glass,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225416	0.70	TP147	Brown Sandy	No asbestos detected	n/t	n/t	n/t	n/t
225419	0.60	TP117	Brown sandy Soil,stones,Clinker,Brick	No asbestos detected	n/t	n/t	n/t	n/t
225420	0.90	TP117	Brown sandy Soil	No asbestos detected	n/t	n/t	n/t	n/t
225423	0.50	TP118	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225427	0.25	TP120	Brown sandy Soil,stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225428	0.10	TP121	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225429	0.30	TP121	Brown Sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225430	0.20	TP129	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225432	0.80	TP129	Brown sandy Soil,Stones,Concrete,Clinker	No asbestos detected	n/t	n/t	n/t	n/t
225433	0.10	TP128	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225437	1.90	TP128	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225439	0.50	TP122	Brown Soil,Stoners	No asbestos detected	n/t	n/t	n/t	n/t
225442	0.10	TP150	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225444	0.10	TP130	Brown sandy Soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
225445	0.20	TP151	Brown Sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225448	0.40	TP132	Brown sandy Soil,Stones,Plastic,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225451	1.80	TP132	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225454	0.10	TP133	Brown sandy Soil,Stones,Concrete	Chrysotile (Bitumen)	n/t	n/t	n/t	n/t
225458	0.60	TP152	Brown sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225459	0.10	TP138	Brown sandy soil, stones, concrete, brick	No asbestos detected	n/t	n/t	n/t	n/t
225460	0.20	TP139	Brown sandy soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
225464	0.20	WS102	Brown sandy Soil,Stones,Concrete,Tar	No asbestos detected	n/t	n/t	n/t	n/t
225468	1.00	WS108	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
225470	0.30	WS113	Brown Sandy Soil,Stones,Brick,concrete	No asbestos detected	n/t	n/t	n/t	n/t
225471	0.70	WS113	Brown Sandy Soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-31809, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	27/01/2021	110	Colorimetry
pH	M	Air dried sample	28/01/2021	113	Electromeric
PAH (GC-FID)	M	As submitted sample	27/01/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	29/01/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	29/01/2021	181	GC-MS
BTEX in solids	M	As submitted sample	29/01/2021	181A	GC-MS
Total organic carbon/Total sulphur	N	Air dried sample	28/01/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	27/01/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	29/01/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	27/01/2021	214	GC-FID
Asbestos identification	U	Air dried sample	28/01/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	27/01/2021	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-31809, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-31880

Issue: 1

Date of Issue: 04/02/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3237

Customer Reference: LP2441

Date Received: 26/01/2021

Date Approved: 04/02/2021

Details: Novartis - Horsham

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-31880, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
225910	TP107 0.10	22/01/2021	28/01/2021		
225911	TP107 0.55	22/01/2021	28/01/2021		
225912	TP108 0.10	22/01/2021	28/01/2021		
225913	TP108 0.50	22/01/2021	28/01/2021		
225914	TP108 1.00	22/01/2021	28/01/2021		
225915	TP108 1.50	22/01/2021	28/01/2021		
225916	TP108 2.00	22/01/2021	28/01/2021	Silty clayey loam	
225917	TP103 0.10	22/01/2021	28/01/2021		
225918	TP103 0.30	22/01/2021	28/01/2021		
225919	TP105 0.10	22/01/2021	28/01/2021		
225920	TP105 0.30	22/01/2021	28/01/2021		
225921	TP148 0.10	22/01/2021	28/01/2021		
225922	TP148 0.35	22/01/2021	28/01/2021	Sandy clayey loam	
225923	TP148 0.50	22/01/2021	28/01/2021		
225924	TP115 0.20	22/01/2021	28/01/2021		
225925	TP115 0.70	22/01/2021	28/01/2021		
225926	TP115 1.40	22/01/2021	28/01/2021	Silty loam	
225927	TP115 2.00	22/01/2021	28/01/2021	Silty clayey loam	
225928	TP113 0.10	22/01/2021	28/01/2021		
225929	TP113 0.40	22/01/2021	28/01/2021		
225930	TP113 1.00	22/01/2021	28/01/2021		
225931	TP112 0.10	22/01/2021	28/01/2021	stones	
225932	TP112 0.20	22/01/2021	28/01/2021		
225933	TP112 0.35	22/01/2021	28/01/2021	Loamy sand	
225934	TP111 0.15	22/01/2021	28/01/2021		
225935	TP111 0.40	22/01/2021	28/01/2021	Silty clayey loam	
225936	TP126A 0.10	25/01/2021	28/01/2021		
225937	TP126A 0.35	25/01/2021	28/01/2021		
225938	TP126A 0.70	25/01/2021	28/01/2021	Sandy loam	
225939	TP126A 1.00	25/01/2021	28/01/2021	Silty clayey loam	
225940	TP126A 1.40	25/01/2021	28/01/2021		
225941	TP144 0.10	25/01/2021	28/01/2021		
225942	TP144 0.40	25/01/2021	28/01/2021		
225943	TP145 0.15	25/01/2021	28/01/2021		
225944	TP145 0.40	25/01/2021	28/01/2021		
225945	B4 0.10	25/01/2021	28/01/2021		
225946	B4 0.30	25/01/2021	28/01/2021		
225947	B3 0.10	25/01/2021	28/01/2021		
225948	B3 0.50	25/01/2021	28/01/2021		
225949	TP143 0.10	25/01/2021	28/01/2021		
225950	TP143 0.40	25/01/2021	28/01/2021	Silty loam	
225951	TP131 0.20	25/01/2021	28/01/2021	Silty loam	
225952	TP131 0.40	25/01/2021	28/01/2021		
225953	TP131 0.80	25/01/2021	28/01/2021		
225954	B1 0.10	25/01/2021	28/01/2021		
225955	B1 0.30	25/01/2021	28/01/2021		
225956	B2 0.10	25/01/2021	28/01/2021		
225957	B2 0.30	25/01/2021	28/01/2021		
225958	TP127 0.20	25/01/2021	28/01/2021	Loamy sand	
225959	TP127 0.40	25/01/2021	28/01/2021		
225960	TP125 0.20	25/01/2021	28/01/2021	Loamy sand	
225961	TP125 0.60	25/01/2021	28/01/2021		
225962	TP125 1.20	25/01/2021	28/01/2021	stones	
225963	WS103 0.20	22/01/2021	28/01/2021		
225964	WS103 0.15	22/01/2021	28/01/2021		
225965	WS105 0.25	22/01/2021	28/01/2021	Loamy sand + stones	
225966	WS106 0.20	21/01/2021	28/01/2021		
225967	WS106 0.50	21/01/2021	28/01/2021		
225968	WS109 0.40	22/01/2021	28/01/2021		
225969	WS109 0.80	22/01/2021	28/01/2021	Loamy sand	
225970	WS110 0.10	21/01/2021	28/01/2021		
225971	WS110 0.80	21/01/2021	28/01/2021		
225972	WS111 0.20	21/01/2021	28/01/2021		
225973	WS115 0.15	21/01/2021	28/01/2021	Loamy sand	

Sample Summary

Report No.: 21-31880, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
225974	WS115 0.45	21/01/2021	28/01/2021		
225975	WS116 0.20	22/01/2021	28/01/2021	Loamy sand	
225976	WS117 0.05	21/01/2021	28/01/2021		
225977	TP116 1.40	21/01/2021	28/01/2021	Silty clayey loam	
225978	TP134 0.30	21/01/2021	28/01/2021	Loamy sand	
225979	TP136 2.00	21/01/2021	28/01/2021	Silty clayey loam	
225980	TP146 0.20	21/01/2021	28/01/2021	Loamy sand	
225981	TP140 0.10	21/01/2021	28/01/2021	Sandy loam	
225982	TP137 0.20	21/01/2021	28/01/2021	Sandy clayey loam	
225983	TP116 0.20	21/01/2021	28/01/2021		
225984	TP116 0.60	21/01/2021	28/01/2021		
225985	TP116 1.10	21/01/2021	28/01/2021		
225986	TP126B 0.10	21/01/2021	28/01/2021		
225987	TP126B 0.50	21/01/2021	28/01/2021		
225988	TP126B 0.80	21/01/2021	28/01/2021		
225989	TP126B 2.10	21/01/2021	28/01/2021		
225990	TP134 0.10	21/01/2021	28/01/2021		
225991	TP136 0.10	21/01/2021	28/01/2021		
225992	TP136 0.60	21/01/2021	28/01/2021		
225993	TP136 1.50	21/01/2021	28/01/2021		
225994	TP137 0.60	21/01/2021	28/01/2021		
225995	TP137 0.90	21/01/2021	28/01/2021		
225996	TP137 1.50	21/01/2021	28/01/2021		
225997	TP140 1.20	21/01/2021	28/01/2021		
225998	TP140 1.80	21/01/2021	28/01/2021		
225999	TP140 2.10	21/01/2021	28/01/2021		
226000	TP142 0.10	21/01/2021	28/01/2021		
226001	TP142 0.50	21/01/2021	28/01/2021		
226002	TP146 0.50	21/01/2021	28/01/2021		
226003	B3 0.95	25/01/2021	28/01/2021		



Results Summary

2683

Report No.: 21-31880, issue number 1

ELAB Reference				225916	225922	225926	225927	225931
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP108	TP148	TP115	TP115	TP112
Sample Depth (m)				2.00	0.35	1.40	2.00	0.10
Sampling Date				22/01/2021	22/01/2021	22/01/2021	22/01/2021	22/01/2021
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	< 0.1	37.8	< 0.1	< 0.1	n/t
Description of Inert material removed	N		0	None	Stones	None	None	n/t
Metals								
Arsenic	M	mg/kg	1	8.8	27.1	18.2	6.5	n/t
Cadmium	M	mg/kg	0.5	< 0.5	1.6	< 0.5	< 0.5	n/t
Chromium	M	mg/kg	5	22.7	20.7	25.6	12.5	n/t
Copper	M	mg/kg	5	17.1	20.1	31.9	6.1	n/t
Lead	M	mg/kg	5	22.0	84.8	89.2	19.2	n/t
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	n/t
Nickel	M	mg/kg	5	17.3	16.5	15.7	6.4	n/t
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	n/t
Zinc	M	mg/kg	5	64.6	313	87.5	25.5	n/t
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	n/t
Miscellaneous								
Acid Neutralisation Capacity	N	mol/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	3.82	2.71	6.47	n/t	n/t
pH	M	pH units	0.1	7.5	8.9	8.8	6.9	n/t
Total Organic Carbon	N	%	0.01	0.28	0.46	1.9	0.34	n/t
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Fluoranthene	M	mg/kg	0.1	0.1	< 0.1	0.4	< 0.1	n/t
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.3	< 0.1	n/t
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	< 0.1	n/t
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	< 0.1	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	< 0.1	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	0.1	< 0.1	0.3	< 0.1	n/t
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	< 0.1	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	< 0.1	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	0.1	< 0.1	n/t
Total PAH(16)	M	mg/kg	0.4	0.7	< 0.4	2.3	< 0.4	n/t
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	< 2	< 2	2	n/t	n/t



Results Summary

2683

Report No.: 21-31880, issue number 1

ELAB Reference				225916	225922	225926	225927	225931
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP108	TP148	TP115	TP115	TP112
Sample Depth (m)				2.00	0.35	1.40	2.00	0.10
Sampling Date				22/01/2021	22/01/2021	22/01/2021	22/01/2021	22/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	n/t	n/t	^ < 10.0
Toluene	M	ug/kg	10	n/t	n/t	n/t	n/t	^ < 10.0
Ethylbenzene	M	ug/kg	10	n/t	n/t	n/t	n/t	^ < 10.0
Xylenes	M	ug/kg	10	n/t	n/t	n/t	n/t	^ < 10.0
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Total BTEX	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	7.5
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	17.3
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	593
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	431
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	1050
Total Petroleum Hydrocarbons								
Mineral Oil	M	mg/kg	5	< 5	8	5	n/t	n/t
PCB (ICES 7 congeners)								
PCB (Total of 7 Congeners)	M	mg/kg	0.03	0.03	< 0.03	< 0.03	n/t	n/t

Results Summary

2683

Report No.: 21-31880, issue number 1

ELAB Reference	225933	225935	225938	225939	225950
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP112	TP111	TP126A	TP126A	TP143
Sample Depth (m)	0.35	0.40	0.70	1.00	0.40
Sampling Date	22/01/2021	22/01/2021	25/01/2021	25/01/2021	25/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	54.0	< 0.1	53.0	< 0.1	38.2
Description of Inert material removed	N		0	Stones,clinker	None	Stones	None	Stones
Metals								
Arsenic	M	mg/kg	1	63.2	9.8	17.3	6.6	11.7
Cadmium	M	mg/kg	0.5	1.8	< 0.5	1.1	< 0.5	< 0.5
Chromium	M	mg/kg	5	66.8	20.1	15.5	19.7	25.6
Copper	M	mg/kg	5	1550	47.2	23.9	20.2	27.8
Lead	M	mg/kg	5	1050	70.0	132	28.1	71.2
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	153	13.7	17.0	9.5	18.3
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	2850	112	253	58.1	131
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	< 0.1	n/t	< 0.1	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	4.97	n/t	4.48	n/t
pH	M	pH units	0.1	10.5	7.7	10.6	7.7	9.8
Total Organic Carbon	N	%	0.01	11	1.2	0.16	0.66	1.2
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	0.9	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	0.7	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	5.8	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	1.6	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	7.3	< 0.1	< 0.1	< 0.1	0.1
Pyrene	M	mg/kg	0.1	5.7	< 0.1	< 0.1	< 0.1	0.1
Benzo(a)anthracene	M	mg/kg	0.1	2.8	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	3.2	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	2.6	< 0.1	< 0.1	< 0.1	0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	2.5	< 0.1	< 0.1	< 0.1	0.1
Benzo(a)pyrene	M	mg/kg	0.1	2.5	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	1.8	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.4	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	1.6	< 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	39.7	0.5	< 0.4	< 0.4	1.0
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	n/t	< 2	n/t	< 2	n/t



Results Summary

2683

Report No.: 21-31880, issue number 1

ELAB Reference				225933	225935	225938	225939	225950
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP112	TP111	TP126A	TP126A	TP143
Sample Depth (m)				0.35	0.40	0.70	1.00	0.40
Sampling Date				22/01/2021	22/01/2021	25/01/2021	25/01/2021	25/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	< 10.0	< 10.0	n/t	< 10.0	n/t
Toluene	M	ug/kg	10	< 10.0	< 10.0	n/t	< 10.0	n/t
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	n/t	< 10.0	n/t
Xylenes	M	ug/kg	10	< 10.0	< 10.0	n/t	< 10.0	n/t
MTBE	N	ug/kg	10	< 10.0	< 10.0	n/t	< 10.0	n/t
Total BTEX	N	mg/kg	0.01	n/t	< 0.01	n/t	< 0.01	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	n/t	< 0.01	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	n/t	< 0.01	n/t
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	n/t
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	n/t
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	n/t
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	n/t
>C21-C35 Aliphatic	N	mg/kg	1	11.0	< 1.0	n/t	< 1.0	n/t
>C35-C40 Aliphatic	N	mg/kg	1	3.3	< 1.0	n/t	< 1.0	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	n/t	< 0.01	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	n/t	< 0.01	n/t
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	1.8	n/t	< 1.0	n/t
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	1.6	n/t	1.1	n/t
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	n/t
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	1.8	n/t	< 1.0	n/t
>C21-C35 Aromatic	N	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	n/t
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	< 1.0	n/t	< 1.0	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	14.3	5.1	n/t	1.1	n/t
Total Petroleum Hydrocarbons								
Mineral Oil	M	mg/kg	5	n/t	< 5	n/t	< 5	n/t
PCB (ICES 7 congeners)								
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	< 0.03	n/t	< 0.03	n/t

Results Summary

2683

Report No.: 21-31880, issue number 1

ELAB Reference	225951	225958	225960	225962	225965
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP131	TP127	TP125	TP125	WS105
Sample Depth (m)	0.20	0.20	0.20	1.20	0.25
Sampling Date	25/01/2021	25/01/2021	25/01/2021	25/01/2021	22/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	34.8	61.1	60.0	None	None
Description of Inert material removed	N		0	Stones	Stones	Stones	None	None
Metals								
Arsenic	M	mg/kg	1	12.8	10.4	10.6	^ 11.9	^ 9.4
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	^ < 0.5	^ < 0.5
Chromium	M	mg/kg	5	31.8	55.4	61.3	^ 87.1	^ 52.6
Copper	M	mg/kg	5	52.3	31.2	35.2	^ 30.4	^ 27.0
Lead	M	mg/kg	5	70.2	222	151	^ 44.2	^ 214
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	^ < 0.5	^ < 0.5
Nickel	M	mg/kg	5	24.0	36.6	43.0	^ 58.4	^ 22.6
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	^ < 1.0	^ < 1.0
Zinc	M	mg/kg	5	130	280	258	^ 153	^ 65.2
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
Acid Neutralisation Capacity	N	mol/kg	0.1	< 0.1	< 0.1	< 0.1	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	5.39	5.13	5.42	n/t	n/t
pH	M	pH units	0.1	9.0	10.6	11.2	^ 12.2	^ 10.6
Total Organic Carbon	N	%	0.01	1.6	0.68	0.51	0.43	7.9
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	^ < 0.1	^ 1.2
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	^ < 0.1	^ 3.3
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	^ < 0.1	^ 26.6
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	^ < 0.1	^ 27.5
Phenanthrene	M	mg/kg	0.1	0.1	< 0.1	< 0.1	^ < 0.1	^ 260
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	^ < 0.1	^ 71.0
Fluoranthene	M	mg/kg	0.1	0.5	< 0.1	0.2	^ < 0.1	^ 249
Pyrene	M	mg/kg	0.1	0.4	< 0.1	0.1	^ < 0.1	^ 199
Benzo(a)anthracene	M	mg/kg	0.1	0.3	< 0.1	< 0.1	^ < 0.1	^ 100
Chrysene	M	mg/kg	0.1	0.3	< 0.1	0.1	^ < 0.1	^ 98.6
Benzo(b)fluoranthene	M	mg/kg	0.1	0.4	< 0.1	< 0.1	^ < 0.1	^ 89.2
Benzo(k)fluoranthene	M	mg/kg	0.1	0.4	< 0.1	< 0.1	^ < 0.1	^ 80.1
Benzo(a)pyrene	M	mg/kg	0.1	0.4	< 0.1	< 0.1	^ < 0.1	^ 87.3
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.3	< 0.1	< 0.1	^ < 0.1	^ 64.7
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.1	< 0.1	< 0.1	^ < 0.1	^ 15.7
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.3	< 0.1	< 0.1	^ < 0.1	^ 49.9
Total PAH(16)	M	mg/kg	0.4	3.6	< 0.4	0.8	^ < 0.4	^ 1420
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	4	< 2	< 2	n/t	n/t



Results Summary

2683

Report No.: 21-31880, issue number 1

ELAB Reference				225951	225958	225960	225962	225965
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP131	TP127	TP125	TP125	WS105
Sample Depth (m)				0.20	0.20	0.20	1.20	0.25
Sampling Date				25/01/2021	25/01/2021	25/01/2021	25/01/2021	22/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	< 10.0	n/t	n/t	n/t	^ < 10.0
Toluene	M	ug/kg	10	< 10.0	n/t	n/t	n/t	^ < 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	n/t	n/t	n/t	^ < 10.0
Xylenes	M	ug/kg	10	< 10.0	n/t	n/t	n/t	^ < 10.0
MTBE	N	ug/kg	10	< 10.0	n/t	n/t	n/t	< 10.0
Total BTEX	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	9.3
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	1.2
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	25.4
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	106
>C21-C35 Aliphatic	N	mg/kg	1	26.6	n/t	n/t	n/t	356
>C35-C40 Aliphatic	N	mg/kg	1	9.2	n/t	n/t	n/t	116
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	2.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	1.6
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	56.6
>C16-C21 Aromatic	N	mg/kg	1	6.4	n/t	n/t	n/t	384
>C21-C35 Aromatic	N	mg/kg	1	106	n/t	n/t	n/t	976
>C35-C40 Aromatic	N	mg/kg	1	61.8	n/t	n/t	n/t	106
Total (>C5-C40) Ali/Aro	N	mg/kg	1	210	n/t	n/t	n/t	2140
Total Petroleum Hydrocarbons								
Mineral Oil	M	mg/kg	5	229	59	24	n/t	n/t
PCB (ICES 7 congeners)								
PCB (Total of 7 Congeners)	M	mg/kg	0.03	< 0.03	< 0.03	< 0.03	n/t	n/t



Results Summary

2683

Report No.: 21-31880, issue number 1

ELAB Reference	225969	225973	225975	225977	225978
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS109	WS115	WS116	TP116	TP134
Sample Depth (m)	0.80	0.15	0.20	1.40	0.30
Sampling Date	22/01/2021	21/01/2021	22/01/2021	21/01/2021	21/01/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	52.2	51.8	59.7	< 0.1	66.5
Description of Inert material removed	N		0	Stones	Stones	Stones	None	Stones
Metals								
Arsenic	M	mg/kg	1	12.2	8.5	10.0	6.1	6.9
Cadmium	M	mg/kg	0.5	3.5	< 0.5	< 0.5	< 0.5	0.7
Chromium	M	mg/kg	5	14.1	27.5	75.7	20.2	13.3
Copper	M	mg/kg	5	9.8	24.1	45.8	14.5	14.1
Lead	M	mg/kg	5	112	26.1	91.0	26.1	52.5
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	9.8	15.9	56.7	12.9	15.1
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	446	103	217	60.1	103
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	n/t	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	n/t	n/t	n/t	n/t
pH	M	pH units	0.1	11.0	11.4	11.4	8.3	9.2
Total Organic Carbon	N	%	0.01	1.7	0.21	0.43	1.0	0.68
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	0.5	< 0.4	< 0.4
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	n/t	n/t	n/t	n/t	n/t



Results Summary

2683

Report No.: 21-31880, issue number 1

ELAB Reference				225969	225973	225975	225977	225978
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				WS109	WS115	WS116	TP116	TP134
Sample Depth (m)				0.80	0.15	0.20	1.40	0.30
Sampling Date				22/01/2021	21/01/2021	22/01/2021	21/01/2021	21/01/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Toluene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Xylenes	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Total BTEX	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total Petroleum Hydrocarbons								
Mineral Oil	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
PCB (ICES 7 congeners)								
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	n/t	n/t	n/t	n/t

Results Summary

2683

Report No.: 21-31880, issue number 1

ELAB Reference	225979	225980	225981	225982
Customer Reference				
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	TP136	TP146	TP140	TP137
Sample Depth (m)	2.00	0.20	0.10	0.20
Sampling Date	21/01/2021	21/01/2021	21/01/2021	21/01/2021

Determinand	Codes	Units	LOD				
Soil sample preparation parameters							
Material removed	N	%	0.1	43.1	61.2	62.2	50.5
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones
Metals							
Arsenic	M	mg/kg	1	7.8	44.3	12.7	7.8
Cadmium	M	mg/kg	0.5	0.5	2.8	< 0.5	< 0.5
Chromium	M	mg/kg	5	17.9	16.4	35.3	27.0
Copper	M	mg/kg	5	10.4	10.6	29.7	20.5
Lead	M	mg/kg	5	25.0	159	352	39.3
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	15.0	12.1	19.1	17.0
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	102	439	158	81.6
Inorganics							
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous							
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	n/t	n/t	n/t
pH	M	pH units	0.1	9.9	11.2	10.8	11.9
Total Organic Carbon	N	%	0.01	0.22	1.2	0.57	0.13
Polyaromatic hydrocarbons							
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	0.4	0.8	< 0.4
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	n/t	n/t	n/t	n/t



Results Summary

2683

Report No.: 21-31880, issue number 1

ELAB Reference				225979	225980	225981	225982
Customer Reference							
Sample ID							
Sample Type				SOIL	SOIL	SOIL	SOIL
Sample Location				TP136	TP146	TP140	TP137
Sample Depth (m)				2.00	0.20	0.10	0.20
Sampling Date				21/01/2021	21/01/2021	21/01/2021	21/01/2021
Determinand	Codes	Units	LOD				
BTEX							
Benzene	M	ug/kg	10	n/t	n/t	n/t	n/t
Toluene	M	ug/kg	10	n/t	n/t	n/t	n/t
Ethylbenzene	M	ug/kg	10	n/t	n/t	n/t	n/t
Xylenes	M	ug/kg	10	n/t	n/t	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t
Total BTEX	N	mg/kg	0.01	n/t	n/t	n/t	n/t
TPH CWG							
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t
Total Petroleum Hydrocarbons							
Mineral Oil	M	mg/kg	5	n/t	n/t	n/t	n/t
PCB (ICES 7 congeners)							
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	n/t	n/t	n/t

Results Summary

2683

Report No.: 21-31880, issue number 1

ELAB Reference	225926	225939
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	TP115	TP126A
Sample Depth (m)	1.40	1.00
Sampling Date	22/01/2021	25/01/2021

Determinand	Codes	Units	LOD		
VOC					
Heptane	N	ug/kg	10	< 10.0	< 10.0
Octane	N	ug/kg	10	< 10.0	< 10.0
Nonane	N	ug/kg	10	< 10.0	< 10.0
Benzene	M	ug/kg	10	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0
m+p-xylene	M	ug/kg	10	< 10.0	< 10.0
o-xylene	M	ug/kg	10	< 10.0	< 10.0
cis-1,2-dichloroethane	N	ug/kg	10	< 10.0	< 10.0
1,1-Dichloroethane	M	ug/kg	10	< 10.0	< 10.0
Chloroform	M	ug/kg	10	< 10.0	< 10.0
Tetrachloromethane	M	ug/kg	10	< 10.0	< 10.0
1,1,1-Trichloroethane	M	ug/kg	10	< 10.0	< 10.0
Trichloroethylene	M	ug/kg	10	< 10.0	< 10.0
Tetrachloroethylene	M	ug/kg	10	< 10.0	< 10.0
1,1,1,2-Tetrachloroethane	M	ug/kg	10	< 10.0	< 10.0
1,1,2,2-Tetrachloroethane	M	ug/kg	10	< 10.0	< 10.0
Chlorobenzene	M	ug/kg	10	< 10.0	< 10.0
Bromobenzene	M	ug/kg	10	< 10.0	< 10.0
Bromodichloromethane	M	ug/kg	10	< 10.0	< 10.0
Methylethylbenzene	M	ug/kg	10	< 10.0	< 10.0
1,1-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0
Trans - 1-2 -dichloroethylene	N	ug/kg	10	< 10.0	< 10.0
2,2-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0
Bromochloromethane	N	ug/kg	10	< 10.0	< 10.0
1,2-Dichloroethane	M	ug/kg	10	< 10.0	< 10.0
Dibromomethane	M	ug/kg	10	< 10.0	< 10.0
1,2-Dichloropropane	M	ug/kg	10	< 10.0	< 10.0
cis-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0
trans-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0
1,1,2-Trichloroethane	N	ug/kg	10	< 10.0	< 10.0
Dibromochloromethane	N	ug/kg	10	< 10.0	< 10.0
1,3-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0
1,2-dibromoethane	N	ug/kg	10	< 10.0	< 10.0
Styrene	N	ug/kg	10	< 10.0	< 10.0
Propylbenzene	N	ug/kg	10	< 10.0	< 10.0
2-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0
1,2,4-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0
4-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0
t-butylbenzene	N	ug/kg	10	< 10.0	< 10.0
1,3,5-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0
1-methylpropylbenzene	N	ug/kg	10	< 10.0	< 10.0
p-cymene	N	ug/kg	10	< 10.0	< 10.0
1,3-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0
Butylbenzene	N	ug/kg	10	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	N	ug/kg	10	< 10.0	< 10.0
Hexachlorobutadiene	N	ug/kg	10	< 10.0	< 10.0
1-2-3 - Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0
Naphthalene	N	ug/kg	10	< 10.0	< 10.0
1-2-4 - Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0
1,4-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0
1,2-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0
Bromoform	N	ug/kg	10	< 10.0	< 10.0

Tests marked N are not UKAS accredited.
The Environmental Laboratory Ltd. Reg. No. 3882193



Results Summary

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Report No.: 21-31880, issue number 1

ELAB Reference	225926	225939
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	TP115	TP126A
Sample Depth (m)	1.40	1.00
Sampling Date	22/01/2021	25/01/2021

Determinand	Codes	Units	LOD		
SVOC					
Phenol	N	mg/kg	0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	0.05	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	0.02	0.01
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	0.01	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	0.03	< 0.01
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	0.03	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	0.02	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	0.01	< 0.01

Tests marked N are not UKAS accredited.

Results Summary

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Report No.: 21-31880, issue number 1

ELAB Reference	225926	225939
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	TP115	TP126A
Sample Depth (m)	1.40	1.00
Sampling Date	22/01/2021	25/01/2021

Determinand	Codes	Units	LOD		
SVOC					
Phenanthrene	N	mg/kg	0.01	0.44	0.02
Anthracene	N	mg/kg	0.01	0.07	< 0.01
Carbazole	N	mg/kg	0.01	0.04	< 0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	1.65	0.05
Pyrene	N	mg/kg	0.01	1.54	0.04
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.69	0.02
Chrysene	N	mg/kg	0.01	0.84	0.03
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.88	0.03
Benzo(k)fluoranthene	N	mg/kg	0.01	0.73	0.03
Benzo(a)pyrene	N	mg/kg	0.01	0.83	0.03
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.39	0.02
Dibenz(ah)anthracene	N	mg/kg	0.01	0.13	< 0.01
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.51	0.02

Results Summary

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Report No.: 21-31880, issue number 1

WAC Analysis

Elab Ref:	225960					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	25/01/2021					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	TP125							
Depth (m)	0.2							
Site:	Novartis - Horsham							
Determinand		Code	Units					
Total Organic Carbon		N	%		0.51	3	5	6
Loss on Ignition		M	%		5.4	—	—	10
Total BTEX		M	mg/kg		< 0.01	6	—	—
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	—	—
TPH Total WAC		M	mg/kg		24	500	—	—
Total (of 17) PAHs		N	mg/kg		< 2	100	—	—
pH		M			11.2	—	>6	—
Acid Neutralisation Capacity		N	mol/kg		< 0.1	—	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	0.008	0.08	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	0.021	0.21	0.5	10	70
Copper		N	0.006	0.06	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	53	527.00	1000	20000	50000
Total Dissolved Solids		N	182	1820.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	68.400	684.00	500	800	1000

Leach Test Information

pH		N	10.4				
Conductivity (uS/cm)		N	272				
Dry mass of test portion (g)			103.000				
Dry Matter (%)			86				
Moisture (%)			17				
Eluent Volume (ml)			997				

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

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

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Report No.: 21-31880, issue number 1

WAC Analysis

Elab Ref:	225958					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	25/01/2021					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	TP127							
Depth (m)	0.2							
Site:	Novartis - Horsham							
Determinand		Code	Units					
Total Organic Carbon		N	%		0.68	3	5	6
Loss on Ignition		M	%		5.1	—	—	10
Total BTEX		M	mg/kg		< 0.01	6	—	—
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	—	—
TPH Total WAC		M	mg/kg		59	500	—	—
Total (of 17) PAHs		N	mg/kg		< 2	100	—	—
pH		M			10.6	—	>6	—
Acid Neutralisation Capacity		N	mol/kg		< 0.1	—	To evaluate	To evaluate

Eluate Analysis

			mg/l		mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
Arsenic		N	0.005		0.05	0.5	2	25
Barium		N	0.008		0.08	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005		< 0.05	0.5	10	30
Nickel		N	< 0.001		< 0.05	0.4	10	40
Lead		N	< 0.001		< 0.05	0.5	10	50
Antimony		N	< 0.005		< 0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	< 0.005		< 0.05	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		< 10	10	150	500
Sulphate		N	29		294.00	1000	20000	50000
Total Dissolved Solids		N	110		1100.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	22.100		221.00	500	800	1000

Leach Test Information

pH	N	7.9				
Conductivity (uS/cm)	N	164				
Dry mass of test portion (g)		101.000				
Dry Matter (%)		87				
Moisture (%)		16				
Eluent Volume (ml)		968				

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

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

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Report No.: 21-31880, issue number 1

WAC Analysis

Elab Ref:	225951					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	25/01/2021					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	TP131							
Depth (m)	0.2							
Site:	Novartis - Horsham							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.60	3	5	6
Loss on Ignition		M	%		5.4	—	—	10
Total BTEX		M	mg/kg		< 0.01	6	—	—
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	—	—
TPH Total WAC		M	mg/kg		229	500	—	—
Total (of 17) PAHs		N	mg/kg		4.0	100	—	—
pH		M			9.0	—	>6	—
Acid Neutralisation Capacity		N	mol/kg		< 0.1	—	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	0.007	0.07	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	2	19.90	1000	20000	50000
Total Dissolved Solids		N	63	628.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	21.000	210.00	500	800	1000

Leach Test Information

pH		N	7.6				
Conductivity (uS/cm)		N	94				
Dry mass of test portion (g)			103.000				
Dry Matter (%)			88				
Moisture (%)			14				
Eluent Volume (ml)			987				

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

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

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Report No.: 21-31880, issue number 1

WAC Analysis

Elab Ref:	225939					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	25/01/2021					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	TP126A							
Depth (m)	1							
Site:	Novartis - Horsham							
Determinand		Code	Units					
Total Organic Carbon		N	%		0.66	3	5	6
Loss on Ignition		M	%		4.5	—	—	10
Total BTEX		M	mg/kg		< 0.01	6	—	—
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	—	—
TPH Total WAC		M	mg/kg		< 5	500	—	—
Total (of 17) PAHs		N	mg/kg		< 2	100	—	—
pH		M			7.7	—	>6	—
Acid Neutralisation Capacity		N	mol/kg		< 0.1	—	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	0.006	0.06	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	3	28.40	1000	20000	50000
Total Dissolved Solids		N	64	636.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	26.600	266.00	500	800	1000

Leach Test Information

pH		N	7.5				
Conductivity (uS/cm)		N	95				
Dry mass of test portion (g)			102.000				
Dry Matter (%)			83				
Moisture (%)			20				
Eluent Volume (ml)			974				

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

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

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Report No.: 21-31880, issue number 1

WAC Analysis

Elab Ref:	225935					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	22/01/2021					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	TP111							
Depth (m)	0.4							
Site:	Novartis - Horsham							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.20	3	5	6
Loss on Ignition		M	%		5.0	—	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC		M	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			7.7	—	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	—	To evaluate	To evaluate
Eluate Analysis			10:1		10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l		mg/kg			
Arsenic		N	< 0.005		< 0.05	0.5	2	25
Barium		N	< 0.005		< 0.05	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005		< 0.05	0.5	10	30
Nickel		N	< 0.001		< 0.05	0.4	10	40
Lead		N	< 0.001		< 0.05	0.5	10	50
Antimony		N	< 0.005		< 0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	< 0.005		< 0.05	4	50	200
Chloride		N	6		58.00	800	15000	25000
Fluoride		N	< 5		< 10	10	150	500
Sulphate		N	5		52.60	1000	20000	50000
Total Dissolved Solids		N	55		548.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	22.100		221.00	500	800	1000

Leach Test Information

pH		N	7.3				
Conductivity (uS/cm)		N	82				
Dry mass of test portion (g)			102.000				
Dry Matter (%)			81				
Moisture (%)			24				
Eluent Volume (ml)			959				

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

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

Report No.: 21-31880, issue number 1

WAC Analysis

Elab Ref:	225926					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	22/01/2021					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	TP115							
Depth (m)	1.4							
Site:	Novartis - Horsham							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.90	3	5	6
Loss on Ignition		M	%		6.5	—	—	10
Total BTEX		M	mg/kg		< 0.01	6	—	—
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	—	—
TPH Total WAC		M	mg/kg		5	500	—	—
Total (of 17) PAHs		N	mg/kg		2.0	100	—	—
pH		M			8.8	—	>6	—
Acid Neutralisation Capacity		N	mol/kg		< 0.1	—	To evaluate	To evaluate

Eluate Analysis

			mg/l		mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
Arsenic		N	< 0.005		< 0.05	0.5	2	25
Barium		N	< 0.005		< 0.05	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005		< 0.05	0.5	10	30
Nickel		N	< 0.001		< 0.05	0.4	10	40
Lead		N	0.002		< 0.05	0.5	10	50
Antimony		N	< 0.005		< 0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	< 0.005		< 0.05	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		< 10	10	150	500
Sulphate		N	3		33.60	1000	20000	50000
Total Dissolved Solids		N	30		299.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	18.700		187.00	500	800	1000

Leach Test Information

pH	N	7.3				
Conductivity (uS/cm)	N	< 50				
Dry mass of test portion (g)		101.000				
Dry Matter (%)		78				
Moisture (%)		28				
Eluent Volume (ml)		948				

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

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

2683

Report No.: 21-31880, issue number 1

WAC Analysis

Elab Ref:	225922					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	22/01/2021					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	TP148							
Depth (m)	0.35							
Site:	Novartis - Horsham							
Determinand		Code	Units					
Total Organic Carbon		N	%		0.46	3	5	6
Loss on Ignition		M	%		2.7	—	—	10
Total BTEX		M	mg/kg		< 0.01	6	—	—
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	—	—
TPH Total WAC		M	mg/kg		8	500	—	—
Total (of 17) PAHs		N	mg/kg		< 2	100	—	—
pH		M			8.9	—	>6	—
Acid Neutralisation Capacity		N	mol/kg		< 0.1	—	To evaluate	To evaluate

Eluate Analysis

			mg/l		mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
Arsenic		N	< 0.005		< 0.05	0.5	2	25
Barium		N	0.021		0.21	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005		< 0.05	0.5	10	30
Nickel		N	< 0.001		< 0.05	0.4	10	40
Lead		N	< 0.001		< 0.05	0.5	10	50
Antimony		N	< 0.005		< 0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	< 0.005		< 0.05	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		< 10	10	150	500
Sulphate		N	5		47.60	1000	20000	50000
Total Dissolved Solids		N	69		687.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	21.800		218.00	500	800	1000

Leach Test Information

pH	N	7.6				
Conductivity (uS/cm)	N	103				
Dry mass of test portion (g)		101.000				
Dry Matter (%)		90				
Moisture (%)		11				
Eluent Volume (ml)		967				

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

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

2683

Report No.: 21-31880, issue number 1

WAC Analysis

Elab Ref:	225916					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	22/01/2021					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	TP108							
Depth (m)	2							
Site:	Novartis - Horsham							
Determinand		Code	Units					
Total Organic Carbon		N	%		0.28	3	5	6
Loss on Ignition		M	%		3.8	—	—	10
Total BTEX		M	mg/kg		< 0.01	6	—	—
Total PCBs (7 congeners)		M	mg/kg		0.03	1	—	—
TPH Total WAC		M	mg/kg		< 5	500	—	—
Total (of 17) PAHs		N	mg/kg		< 2	100	—	—
pH		M			7.5	—	>6	—
Acid Neutralisation Capacity		N	mol/kg		< 0.1	—	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	< 0.005	< 0.05	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	0.007	0.07	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	0.002	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	0.008	0.08	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	16	156.00	1000	20000	50000
Total Dissolved Solids		N	86	857.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	27.700	277.00	500	800	1000

Leach Test Information

pH		N	7.5				
Conductivity (uS/cm)		N	128				
Dry mass of test portion (g)			102.000				
Dry Matter (%)			79				
Moisture (%)			26				
Eluent Volume (ml)			963				

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

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Results Summary

Report No.: 21-31880, issue number 1

Asbestos Results

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Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
225910	0.10	TP107	Brown sandy soil, stones (crushed concrete?)	No asbestos detected	n/t	n/t	n/t	n/t
225912	0.10	TP108	Brown sandy soil, stones (crushed concrete?)	No asbestos detected	n/t	n/t	n/t	n/t
225914	1.00	TP108	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
225916	2.00	TP108	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
225922	0.35	TP148	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
225924	0.20	TP115	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
225926	1.40	TP115	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
225927	2.00	TP115	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
225933	0.35	TP112	Brown sandy Soil,Stones,Glass,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225934	0.15	TP111	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225935	0.40	TP111	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
225936	0.10	TP126A	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225938	0.70	TP126A	Brown Sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225939	1.00	TP126A	Brown sandy Soil,Bone	No asbestos detected	n/t	n/t	n/t	n/t
225941	0.10	TP144	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225949	0.10	TP143	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225950	0.40	TP143	Brown sandy Soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
225951	0.20	TP131	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225958	0.20	TP127	Brown sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225960	0.20	TP125	Brown Sandy Soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225962	1.20	TP125	Brown sandy Soil<Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225965	0.25	WS105	Brown sandy Soil,Brick,Stones,Tar	No asbestos detected	n/t	n/t	n/t	n/t
225969	0.80	WS109	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
225973	0.15	WS115	Brown sandy soil,Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
225975	0.20	WS116	Brown sandy Soil,Stones,Concrete,Bitumen	No asbestos detected	n/t	n/t	n/t	n/t
225977	1.40	TP116	Brown Sandy Soil	No asbestos detected	n/t	n/t	n/t	n/t
225978	0.30	TP134	Brown soil with stones	No asbestos detected	n/t	n/t	n/t	n/t
225979	2.00	TP136	Brown soil with stones	No asbestos detected	n/t	n/t	n/t	n/t
225980	0.20	TP146	Brown soil with stones	No asbestos detected	n/t	n/t	n/t	n/t
225981	0.10	TP140	Brown soil with stones,brick,concrete	No asbestos detected	n/t	n/t	n/t	n/t
225982	0.20	TP137	Brown soil with stones,concrete	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-31880, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	01/02/2021	110	Colorimetry
PAH (GC-FID)	M	As submitted sample	01/02/2021	133	GC-FID
SVOC in solids	N	As submitted sample	01/02/2021	167	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	01/02/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	01/02/2021	181	GC-MS
VOC in solids	M	As submitted sample	01/02/2021	181	GC-MS
Aliphatic hydrocarbons in soil	N	As submitted sample	01/02/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	02/02/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	01/02/2021	214	GC-FID
Asbestos identification	U	Air dried sample	02/02/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/02/2021	300	ICPMS
Leachate					
Arsenic	N		03/02/2021	301	ICPMS
Cadmium	N		03/02/2021	301	ICPMS
Chromium	N		03/02/2021	301	ICPMS
Lead	N		03/02/2021	301	ICPMS
Nickel	N		03/02/2021	301	ICPMS
Copper	N		03/02/2021	301	ICPMS
Zinc	N		03/02/2021	301	ICPMS
Mercury	N		03/02/2021	301	ICPMS
Selenium	N		03/02/2021	301	ICPMS
Antimony	N		03/02/2021	301	ICPMS
Barium	N		03/02/2021	301	ICPMS
Molybdenum	N		03/02/2021	301	ICPMS
pH Value	N		03/02/2021	113	Electrometric
Electrical Conductivity	N		03/02/2021	136	Probe
Dissolved Organic Carbon	N		03/02/2021	102	TOC analyser
Chloride	N		03/02/2021	131	Ion Chromatography
Fluoride	N		03/02/2021	131	Ion Chromatography
Sulphate	N		03/02/2021	131	Ion Chromatography
Total Dissolved Solids	N		03/02/2021	144	Gravimetric
Phenol index	N		03/02/2021	121	HPLC
WAC Solids analysis					
pH Value	M	Air dried sample	03/02/2021	113	Electrometric
Total Organic Carbon	N	Air dried sample	02/02/2021	210	IR
Loss on Ignition	M	Air dried sample	02/02/2021	129	Gravimetric
Acid Neutralization Capacity to pH 7	N	Air dried sample	02/02/2021	NEN 737	Electrometric
Total BTEX	M	As submitted sample	01/02/2021	181	GCMS
Mineral Oil	M	As submitted sample	01/02/2021	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	01/02/2021	120	GCMS
Total PAH (17)	N	As submitted sample	02/02/2021	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-31880, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
 Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
 ELAB are unable to provide an interpretation or opinion on the content of this report.
 The results relate only to the sample received.
 PCB congener results may include any coeluting PCBs
 Uncertainty of measurement for the determinands tested are available upon request
 Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-31904

Issue: 1

Date of Issue: 05/02/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3237

Customer Reference: LP2441

Date Received: 29/01/2021

Date Approved: 05/02/2021

Details: Novartis

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-31904, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
226106	TP141 0.10	28/01/2021	29/01/2021	Sandy loam	
226107	TP149 0.10	28/01/2021	29/01/2021	Loamy sand	
226108	TP149 0.40	28/01/2021	29/01/2021		
226109	BH101 0.70	28/01/2021	29/01/2021	Stones, crushed concrete	
226110	WS118 0.25	28/01/2021	29/01/2021		

Results Summary

2683

Report No.: 21-31904, issue number 1

ELAB Reference	226106	226107
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	TP141	TP149
Sample Depth (m)	0.10	0.10
Sampling Date	28/01/2021	28/01/2021

Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Description of material	N		0	Stones,brick,clinker	Stones,brick,clinker
Metals					
Arsenic	M	mg/kg	1	16.6	10.8
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	25.7	25.9
Copper	M	mg/kg	5	43.3	23.0
Lead	M	mg/kg	5	613	73.3
Mercury	M	mg/kg	0.5	0.8	< 0.5
Nickel	M	mg/kg	5	23.0	18.8
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	293	113
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Miscellaneous					
pH	M	pH units	0.1	9.4	9.7
Total Organic Carbon	N	%	0.01	2.8	0.43
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	0.2	< 0.1
Acenaphthylene	M	mg/kg	0.1	0.7	< 0.1
Acenaphthene	M	mg/kg	0.1	0.6	< 0.1
Fluorene	M	mg/kg	0.1	0.5	< 0.1
Phenanthrene	M	mg/kg	0.1	3.6	0.2
Anthracene	M	mg/kg	0.1	2.0	< 0.1
Fluoranthene	M	mg/kg	0.1	13.9	0.6
Pyrene	M	mg/kg	0.1	13.9	0.7
Benzo(a)anthracene	M	mg/kg	0.1	11.5	0.5
Chrysene	M	mg/kg	0.1	11.2	0.5
Benzo(b)fluoranthene	M	mg/kg	0.1	13.1	0.5
Benzo(k)fluoranthene	M	mg/kg	0.1	11.6	0.5
Benzo(a)pyrene	M	mg/kg	0.1	14.0	0.6
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	11.7	0.6
Dibenzo(a,h)anthracene	M	mg/kg	0.1	2.6	0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	9.8	0.5
Total PAH(16)	M	mg/kg	0.4	121	5.4

Results Summary

Report No.: 21-31904, issue number 1

ELAB Reference	226109
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	BH101
Sample Depth (m)	0.70
Sampling Date	28/01/2021

Determinand	Codes	Units	LOD	
Soil sample preparation parameters				
Description of material	N		0	All stones, crushed concrete
Metals				
Arsenic	M	mg/kg	1	10.5
Cadmium	M	mg/kg	0.5	< 0.5
Chromium	M	mg/kg	5	36.8
Copper	M	mg/kg	5	33.2
Lead	M	mg/kg	5	27.3
Mercury	M	mg/kg	0.5	< 0.5
Nickel	M	mg/kg	5	23.5
Selenium	M	mg/kg	1	< 1.0
Zinc	M	mg/kg	5	105
Inorganics				
Hexavalent Chromium	N	mg/kg	0.8	< 0.8
Miscellaneous				
pH	M	pH units	0.1	11.9
Total Organic Carbon	N	%	0.01	0.34
Polyaromatic hydrocarbons				
Naphthalene	M	mg/kg	0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.2
Pyrene	M	mg/kg	0.1	0.1
Benzo(a)anthracene	M	mg/kg	0.1	0.1
Chrysene	M	mg/kg	0.1	0.2
Benzo(b)fluoranthene	M	mg/kg	0.1	0.2
Benzo(k)fluoranthene	M	mg/kg	0.1	0.2
Benzo(a)pyrene	M	mg/kg	0.1	0.3
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	1.5



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Results Summary

Report No.: 21-31904, issue number 1

Asbestos Results

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Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
226106	0.10	TP141	Brown sandy soil, stones, brick, road-	No asbestos detected	n/t	n/t	n/t	n/t
226107	0.10	TP149	Brown sandy soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
226109	0.70	BH101	Stones,Concrete	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-31904, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	02/02/2021	110	Colorimetry
pH	M	Air dried sample	03/02/2021	113	Electromeric
PAH (GC-FID)	M	As submitted sample	02/02/2021	133	GC-FID
Total organic carbon/Total sulphur	N	Air dried sample	03/02/2021	210	IR
Asbestos identification	U	Air dried sample	03/02/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	02/02/2021	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-31904, issue number 1

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The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-31949

Issue: 1

Date of Issue: 09/02/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3270

Customer Reference: LP2441

Date Received: 02/02/2021

Date Approved: 09/02/2021

Details: Novartis - Horsham

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Sample Summary

Report No.: 21-31949, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
226386	BH102 0.30	28/01/2021	03/02/2021	Sandy silty loam	
226387	BH103 0.50	28/01/2021	03/02/2021	Sandy silty loam	

Results Summary

2683

Report No.: 21-31949, issue number 1

ELAB Reference	226386	226387
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	BH102	BH103
Sample Depth (m)	0.30	0.50
Sampling Date	28/01/2021	28/01/2021

Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Material removed	N	%	0.1	43.5	61.8
Description of Inert material removed	N		0	Stones	Stones
Metals					
Arsenic	M	mg/kg	1	9.6	9.0
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	27.8	24.9
Copper	M	mg/kg	5	31.3	17.8
Lead	M	mg/kg	5	32.5	34.3
Mercury	M	mg/kg	0.5	0.6	< 0.5
Nickel	M	mg/kg	5	22.9	19.6
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	137	105
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Miscellaneous					
pH	M	pH units	0.1	9.5	10.2
Total Organic Carbon	N	%	0.01	0.69	0.23
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.3	< 0.1
Pyrene	M	mg/kg	0.1	0.2	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	0.2	< 0.1
Chrysene	M	mg/kg	0.1	0.2	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	0.2	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	0.2	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	0.2	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	1.8	< 0.4



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Results Summary

Report No.: 21-31949, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
226386	0.30	BH102	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
226387	0.50	BH103	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-31949, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	04/02/2021	110	Colorimetry
pH	M	Air dried sample	04/02/2021	113	Electromeric
PAH (GC-FID)	M	As submitted sample	04/02/2021	133	GC-FID
Total organic carbon/Total sulphur	N	Air dried sample	05/02/2021	210	IR
Asbestos identification	U	Air dried sample	05/02/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	04/02/2021	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-31949, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
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| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-32070

Issue: 1

Date of Issue: 16/02/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

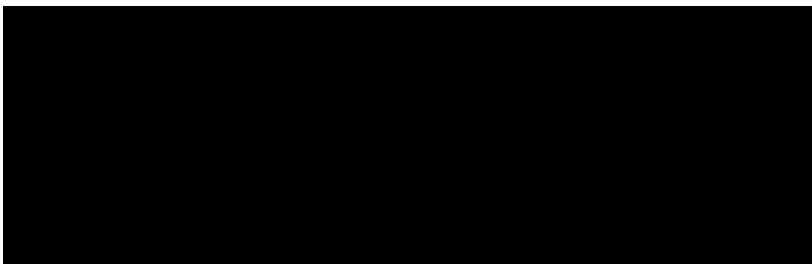
Order No: LPO-3320

Customer Reference: LP2441

Date Received: 10/02/2021

Date Approved: 16/02/2021

Details: Novartis - Horsham



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Sample Summary

Report No.: 21-32070, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
227233	BH101 8.50	08/02/2021	10/02/2021		
227234	BH102 16.00	08/02/2021	10/02/2021		
227235	BH103 17.00	08/02/2021	10/02/2021		
227236	BH104 12.00	08/02/2021	10/02/2021		
227237	BH105 13.00	09/02/2021	10/02/2021		
227238	BH106 18.00	09/02/2021	10/02/2021		

Results Summary

Report No.: 21-32070, issue number 1

ELAB Reference	227233	227234	227235	227236	227237	227238
Customer Reference						
Sample ID						
Sample Type	WATER	WATER	WATER	WATER	WATER	WATER
Sample Location	BH101	BH102	BH103	BH104	BH105	BH106
Sample Depth (m)	8.50	16.00	17.00	12.00	13.00	18.00
Sampling Date	08/02/2021	08/02/2021	08/02/2021	08/02/2021	09/02/2021	09/02/2021
Determinand	Codes	Units	LOD			
Dissolved Metals						
Arsenic	U	ug/l	5	< 5	< 5	< 5
Boron	N	ug/l	5	21	252	309
Calcium	U	ug/l	100	170000	6730	8370
Cadmium	U	ug/l	1	< 1	< 1	< 1
Chromium	U	ug/l	5	< 5	< 5	< 5
Copper	U	ug/l	5	7	< 5	< 5
Mercury	U	ug/l	0.1	0.1	< 0.1	< 0.1
Nickel	U	ug/l	5	11	< 5	< 5
Lead	U	ug/l	1	< 1	< 1	< 1
Selenium	U	ug/l	5	< 5	< 5	< 5
Zinc	U	ug/l	5	< 5	< 5	17
Anions						
Sulphate	U	mg/l	0.5	5.0	33.4	55.8
Inorganics						
Sulphide	N	mg/l	0.1	0.2	0.2	< 0.1
Total Cyanide	U	ug/l	5	< 5	< 5	< 5
Miscellaneous						
Oil and grease	N	mg/l	2	< 2	< 2	< 2
Electrical Conductivity	U	uS/cm	50	2270	482	463
pH	U	pH units	0.1	12.1	8.8	8.2
Organics						
>C8-C10 BCB	N	ug/l	5	< 5.0	< 5.0	< 5.0
>C10-C12 BCB	N	ug/l	5	< 5.0	< 5.0	< 5.0
>C12-C16 BCB	N	ug/l	5	< 5.0	< 5.0	< 5.0
>C16-C21 BCB	N	ug/l	5	< 5.0	< 5.0	< 5.0
Diesel Range Organics (>C8-C21)	N	ug/l	10	< 10	< 10	< 10
Petrol Range Organics (>C6-C10)	N	ug/l	5	< 5.0	< 5.0	< 5.0
Phenols						
Total Monohydric Phenols	N	ug/l	1	233	< 1	< 1
Total Petroleum Hydrocarbons						
Total TPH (C10-C40)	U	ug/l	100	< 100	< 100	< 100

Method Summary

Report No.: 21-32070, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Basic carbon banding in water	N		16/02/2021		GC-FID
Petrol range organics in water	N		16/02/2021		GC-MS
Phenols in waters	N		12/02/2021		HPLC
pH of waters	U		12/02/2021	113	Electromeric
Sulphide in water	N		12/02/2021	134	Colorimetry
Electrical conductivity of water	U		12/02/2021	136	Electromeric
Solvent Extractable Matter in waters	N		12/02/2021	137	Gravimetry
Total Petroleum Hydrocarbons in waters	U		15/02/2021	178	GC-FID
Cyanide in waters	U		12/02/2021	205	Colorimetry
Diesel range organics in water	N		16/02/2021	257	GC-FID
Anions	U		12/02/2021	270	Ion Chromatography
Dissolved metals by ICP in waters	U		12/02/2021	301	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-32070, issue number 1

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U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
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Sample Retention and Disposal

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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-32304

Issue: 1

Date of Issue: 03/03/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3375

Customer Reference: LP2441

Date Received: 24/02/2021

Date Approved: 03/03/2021

Details: Novartis - Horsham

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Sample Summary

Report No.: 21-32304, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
228492	BH101 11.00	22/02/2021	24/02/2021		
228493	BH102 14.10	22/02/2021	24/02/2021		
228494	BH103 17.50	22/02/2021	24/02/2021		
228495	BH104 12.50	22/02/2021	24/02/2021		
228496	BH105 13.00	22/02/2021	24/02/2021		
228497	BH106 17.20	22/02/2021	24/02/2021		

Results Summary

Report No.: 21-32304, issue number 1

ELAB Reference	228492	228493	228494	228495	228496	228497
Customer Reference						
Sample ID						
Sample Type	WATER	WATER	WATER	WATER	WATER	WATER
Sample Location	BH101	BH102	BH103	BH104	BH105	BH106
Sample Depth (m)	11.00	14.10	17.50	12.50	13.00	17.20
Sampling Date	22/02/2021	22/02/2021	22/02/2021	22/02/2021	22/02/2021	22/02/2021
Determinand	Codes	Units	LOD			
Dissolved Metals						
Arsenic	U	ug/l	5	< 5	< 5	< 5
Boron	N	ug/l	5	16	98	327
Calcium	U	ug/l	100	218000	45500	5360
Cadmium	U	ug/l	1	< 1	< 1	< 1
Chromium	U	ug/l	5	< 5	< 5	< 5
Copper	U	ug/l	5	< 5	< 5	< 5
Mercury	U	ug/l	0.1	< 0.1	< 0.1	< 0.1
Nickel	U	ug/l	5	13	6	< 5
Lead	U	ug/l	1	< 1	< 1	< 1
Selenium	U	ug/l	5	< 5	< 5	< 5
Zinc	U	ug/l	5	< 5	< 5	15
Anions						
Sulphate	U	mg/l	0.5	2.0	134	35.7
Inorganics						
Sulphide	N	mg/l	0.1	0.2	< 0.1	0.2
Total Cyanide	U	ug/l	5	< 5	< 5	< 5
Miscellaneous						
Oil and grease	N	mg/l	2	< 2	< 2	< 2
Electrical Conductivity	U	uS/cm	50	3350	599	4000
pH	U	pH units	0.1	12.4	7.2	7.7
Organics						
>C8-C10 BCB	N	ug/l	5	< 5.0	< 5.0	< 5.0
>C10-C12 BCB	N	ug/l	5	< 5.0	< 5.0	< 5.0
>C12-C16 BCB	N	ug/l	5	< 5.0	< 5.0	< 5.0
>C16-C21 BCB	N	ug/l	5	< 5.0	< 5.0	< 5.0
Diesel Range Organics (>C8-C21)	N	ug/l	10	< 10	< 10	< 10
Petrol Range Organics (>C6-C10)	N	ug/l	5	< 5.0	< 5.0	< 5.0
Phenols						
Total Monohydric Phenols	N	ug/l	1	305	< 1	< 1
Polyaromatic hydrocarbons						
Naphthalene GCMS	N	ug/l	0.01	0.22	0.03	< 0.01
Acenaphthylene GCMS	N	ug/l	0.01	0.02	0.01	< 0.01
Acenaphthene GCMS	N	ug/l	0.01	0.03	< 0.01	< 0.01
Fluorene GCMS	N	ug/l	0.01	0.02	< 0.01	< 0.01
Phenanthrene GCMS	N	ug/l	0.01	0.03	0.02	0.01
Anthracene GCMS	N	ug/l	0.01	< 0.01	< 0.01	< 0.01
Fluoranthene GCMS	N	ug/l	0.01	0.01	0.02	0.01
Pyrene GCMS	N	ug/l	0.01	0.01	0.01	< 0.01
Benzo (a) anthracene GCMS	N	ug/l	0.01	0.01	< 0.01	< 0.01
Chrysene GCMS	N	ug/l	0.01	0.02	< 0.01	< 0.01
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	0.02	< 0.01	< 0.01
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	0.02	< 0.01	< 0.01
Benzo (a) pyrene GCMS	N	ug/l	0.01	0.01	< 0.01	< 0.01
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene GCMS	N	ug/l	0.01	0.02	< 0.01	< 0.01
Total PAH(16) GCMS	N	ug/l	0.01	0.48	0.16	0.11



Results Summary

Report No.: 21-32304, issue number 1

ELAB Reference				228492	228493	228494	228495	228496	228497
Customer Reference									
Sample ID									
Sample Type				WATER	WATER	WATER	WATER	WATER	WATER
Sample Location				BH101	BH102	BH103	BH104	BH105	BH106
Sample Depth (m)				11.00	14.10	17.50	12.50	13.00	17.20
Sampling Date				22/02/2021	22/02/2021	22/02/2021	22/02/2021	22/02/2021	22/02/2021
Determinand	Codes	Units	LOD						
BTEX									
Benzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	N	ug/l	1	1.65	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	N	ug/l	1	7.77	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Xylenes	N	ug/l	1	72.4	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
MTBE	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TPH CWG									
>C5-C6 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C35-C40 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C5-C7 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C7-C8 Aromatic	N	ug/l	1	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aromatic	N	ug/l	5	77.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C35-C40 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aromatic	N	ug/l	5	79.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Ali/Aro	N	ug/l	5	79.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons									
Total TPH (C10-C40)	U	ug/l	100	< 100	< 100	< 100	< 100	< 100	< 100

Method Summary

Report No.: 21-32304, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		03/03/2021		GC-FID
Aromatic hydrocarbons in water	N		03/03/2021		GC-FID
Basic carbon banding in water	N		03/03/2021		GC-FID
Petrol range organics in water	N		03/03/2021		GC-MS
Phenols in waters	N		26/02/2021		HPLC
pH of waters	U		26/02/2021	113	Electromeric
Sulphide in water	N		02/03/2021	134	Colorimetry
PAHs and/or PCBs in waters	N		03/03/2021	135	GC-MS
Electrical conductivity of water	U		26/02/2021	136	Electromeric
Solvent Extractable Matter in waters	N		01/03/2021	137	Gravimetry
Total Petroleum Hydrocarbons in waters	U		03/03/2021	178	GC-FID
BTEX in waters	N		26/02/2021	200	GC-MS
Low range Aliphatic hydrocarbons water	N		26/02/2021	200	GC-MS
Low range Aromatic hydrocarbons water	N		26/02/2021	200	GC-MS
Cyanide in waters	U		25/02/2021	205	Colorimetry
Aliphatic hydrocarbons in water	N		03/03/2021	215	GC-FID
Aromatic hydrocarbons in water	N		03/03/2021	215	GC-FID
Diesel range organics in water	N		03/03/2021	257	GC-FID
Anions	U		26/02/2021	270	Ion Chromatography
Dissolved metals by ICP in waters	U		26/02/2021	301	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-32304, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-32584

Issue: 1

Date of Issue: 18/03/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3516

Customer Reference: LP2441

Date Received: 10/03/2021

Date Approved: 18/03/2021

Details: Novartis - Horsham

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-32584, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
230057	BH101 12.00	09/03/2021	11/03/2021		
230058	BH102 17.00	09/03/2021	11/03/2021		
230059	BH103 17.50	09/03/2021	11/03/2021		
230060	BH104 12.50	09/03/2021	11/03/2021		
230061	BH105 13.50	09/03/2021	11/03/2021		
230062	BH106 17.50	09/03/2021	11/03/2021		

Results Summary

Report No.: 21-32584, issue number 1

ELAB Reference				230057	230058	230059	230060	230061	230062
Customer Reference									
Sample ID									
Sample Type				WATER	WATER	WATER	WATER	WATER	WATER
Sample Location				BH101	BH102	BH103	BH104	BH105	BH106
Sample Depth (m)				12.00	17.00	17.50	12.50	13.50	17.50
Sampling Date				09/03/2021	09/03/2021	09/03/2021	09/03/2021	09/03/2021	09/03/2021
Determinand	Codes	Units	LOD						
Dissolved Metals									
Arsenic	U	ug/l	5	< 5	< 5	< 5	< 5	< 5	< 5
Boron	N	ug/l	5	16	102	314	45	50	162
Calcium	U	ug/l	100	279000	52100	4770	29000	< 100	33100
Cadmium	U	ug/l	1	< 1	< 1	< 1	< 1	< 1	< 1
Chromium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5	< 5
Copper	U	ug/l	5	< 5	< 5	< 5	< 5	13	< 5
Mercury	U	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	U	ug/l	5	13	6	< 5	17	9	28
Lead	U	ug/l	1	< 1	< 1	< 1	< 1	< 1	< 1
Selenium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5	< 5
Zinc	U	ug/l	5	< 5	13	< 5	21	< 5	13
Anions									
Sulphate	U	mg/l	0.5	3.0	122	31.8	96.3	132	61.4
Inorganics									
Sulphide	N	mg/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1
Total Cyanide	U	ug/l	5	< 5	< 5	< 5	< 5	12	< 5
Miscellaneous									
Oil and grease	N	mg/l	2	23	17	< 2	15	< 2	< 2
Electrical Conductivity	U	uS/cm	50	3950	587	386	475	927	486
pH	U	pH units	0.1	12.4	7.2	8.0	6.1	6.6	6.5
Organics									
>C8-C10 BCB	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 BCB	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 BCB	N	ug/l	5	9.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 BCB	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diesel Range Organics (>C8-C21)	N	ug/l	10	< 10	< 10	< 10	< 10	< 10	< 10
Petrol Range Organics (>C6-C10)	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Phenols									
Total Monohydric Phenols	N	ug/l	1	392	< 1	< 1	< 1	11	< 1
Polyaromatic hydrocarbons									
Naphthalene GCMS	N	ug/l	0.01	0.04	n/t	n/t	n/t	n/t	n/t
Acenaphthylene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Acenaphthene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Fluorene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Phenanthrene GCMS	N	ug/l	0.01	0.01	n/t	n/t	n/t	n/t	n/t
Anthracene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Fluoranthene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Pyrene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Benzo (a) anthracene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Chrysene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Benzo (a) pyrene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Benzo(ghi)perylene GCMS	N	ug/l	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Total PAH(16) GCMS	N	ug/l	0.01	0.10	n/t	n/t	n/t	n/t	n/t



Results Summary

Report No.: 21-32584, issue number 1

ELAB Reference				230057	230058	230059	230060	230061	230062
Customer Reference									
Sample ID									
Sample Type				WATER	WATER	WATER	WATER	WATER	WATER
Sample Location				BH101	BH102	BH103	BH104	BH105	BH106
Sample Depth (m)				12.00	17.00	17.50	12.50	13.50	17.50
Sampling Date				09/03/2021	09/03/2021	09/03/2021	09/03/2021	09/03/2021	09/03/2021
Determinand	Codes	Units	LOD						
BTEX									
Benzene	N	ug/l	1	< 1.00	n/t	n/t	n/t	n/t	n/t
Toluene	N	ug/l	1	1.53	n/t	n/t	n/t	n/t	n/t
Ethylbenzene	N	ug/l	1	7.85	n/t	n/t	n/t	n/t	n/t
Xylenes	N	ug/l	1	75.3	n/t	n/t	n/t	n/t	n/t
MTBE	N	ug/l	1	< 1.00	n/t	n/t	n/t	n/t	n/t
TPH CWG									
>C5-C6 Aliphatic	N	ug/l	1	< 1.0	n/t	n/t	n/t	n/t	n/t
>C6-C8 Aliphatic	N	ug/l	1	< 1.0	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aliphatic	N	ug/l	5	< 5.0	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aliphatic	N	ug/l	5	< 5.0	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aliphatic	N	ug/l	5	< 5.0	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aliphatic	N	ug/l	5	< 5.0	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aliphatic	N	ug/l	5	138	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aliphatic	N	ug/l	5	175	n/t	n/t	n/t	n/t	n/t
Total (>C5-C40) Aliphatic	N	ug/l	5	313	n/t	n/t	n/t	n/t	n/t
>C5-C7 Aromatic	N	ug/l	1	< 1.0	n/t	n/t	n/t	n/t	n/t
>C7-C8 Aromatic	N	ug/l	1	1.5	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aromatic	N	ug/l	5	< 5.0	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aromatic	N	ug/l	5	< 5.0	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aromatic	N	ug/l	5	12.7	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aromatic	N	ug/l	5	< 5.0	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aromatic	N	ug/l	5	< 5.0	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aromatic	N	ug/l	5	29.6	n/t	n/t	n/t	n/t	n/t
Total (>C5-C40) Aromatic	N	ug/l	5	43.9	n/t	n/t	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	ug/l	5	357	n/t	n/t	n/t	n/t	n/t
Total Petroleum Hydrocarbons									
Total TPH (C10-C40)	U	ug/l	100	< 100	< 100	< 100	113	< 100	< 100

Method Summary

Report No.: 21-32584, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		17/03/2021		GC-FID
Aromatic hydrocarbons in water	N		17/03/2021		GC-FID
Basic carbon banding in water	N		15/03/2021		GC-FID
Petrol range organics in water	N		15/03/2021		GC-MS
Phenols in waters	N		12/03/2021		HPLC
pH of waters	U		12/03/2021	113	Electromeric
Sulphide in water	N		12/03/2021	134	Colorimetry
PAHs and/or PCBs in waters	N		18/03/2021	135	GC-MS
Electrical conductivity of water	U		12/03/2021	136	Electromeric
Solvent Extractable Matter in waters	N		18/03/2021	137	Gravimetry
Total Petroleum Hydrocarbons in waters	U		18/03/2021	178	GC-FID
BTEX in waters	N		15/03/2021	200	GC-MS
Low range Aliphatic hydrocarbons water	N		15/03/2021	200	GC-MS
Low range Aromatic hydrocarbons water	N		15/03/2021	200	GC-MS
Cyanide in waters	U		17/03/2021	205	Colorimetry
Aliphatic hydrocarbons in water	N		12/03/2021	215	GC-FID
Aromatic hydrocarbons in water	N		12/03/2021	215	GC-FID
Diesel range organics in water	N		15/03/2021	257	GC-FID
Anions	U		12/03/2021	270	Ion Chromatography
Dissolved metals by ICP in waters	U		12/03/2021	301	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-32584, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
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I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



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TN38 9BY
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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-33079

Issue: 1

Date of Issue: 15/04/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3612

Customer Reference: LP2411

Date Received: 07/04/2021

Date Approved: 15/04/2021

Details: Novartis - Horsham

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-33079, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
232838	BH101 1.75	06/04/2021	08/04/2021		

Results Summary

Report No.: 21-33079, issue number 1

ELAB Reference	232838
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	BH101
Sample Depth (m)	1.75
Sampling Date	06/04/2021

Determinand	Codes	Units	LOD	
Dissolved Metals				
Arsenic	U	ug/l	5	< 5
Boron	N	ug/l	5	58
Calcium	U	ug/l	100	309000
Cadmium	U	ug/l	1	< 1
Chromium	U	ug/l	5	< 5
Copper	U	ug/l	5	13
Mercury	U	ug/l	0.1	0.3
Nickel	U	ug/l	5	46
Lead	U	ug/l	1	< 1
Selenium	U	ug/l	5	< 5
Zinc	U	ug/l	5	< 5
Anions				
Sulphate	U	mg/l	0.5	41.1
Inorganics				
Sulphide	N	mg/l	0.1	0.1
Total Cyanide	U	ug/l	5	18
Miscellaneous				
Oil and grease	N	mg/l	2	< 2
Electrical Conductivity	U	uS/cm	50	5390
pH	U	pH units	0.1	12.4
Organics				
>C8-C10 BCB	N	ug/l	5	< 5.0
>C10-C12 BCB	N	ug/l	5	< 5.0
>C12-C16 BCB	N	ug/l	5	< 5.0
>C16-C21 BCB	N	ug/l	5	< 5.0
Diesel Range Organics (>C8-C21)	N	ug/l	10	< 10
Petrol Range Organics (>C6-C10)	N	ug/l	5	< 5.0
Phenols				
Total Monohydric Phenols	N	ug/l	1	< 1
Polyaromatic hydrocarbons				
Naphthalene GCMS	N	ug/l	0.01	0.21
Acenaphthylene GCMS	N	ug/l	0.01	0.01
Acenaphthene GCMS	N	ug/l	0.01	0.02
Fluorene GCMS	N	ug/l	0.01	0.04
Phenanthrene GCMS	N	ug/l	0.01	0.07
Anthracene GCMS	N	ug/l	0.01	0.06
Fluoranthene GCMS	N	ug/l	0.01	0.04
Pyrene GCMS	N	ug/l	0.01	0.03
Benzo (a) anthracene GCMS	N	ug/l	0.01	0.03
Chrysene GCMS	N	ug/l	0.01	0.03
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	0.01
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	< 0.01
Benzo (a) pyrene GCMS	N	ug/l	0.01	0.01
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	0.01
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	< 0.01
Benzo(ghi)perylene GCMS	N	ug/l	0.01	0.02
Total PAH(16) GCMS	N	ug/l	0.01	0.62

Results Summary

Report No.: 21-33079, issue number 1

ELAB Reference	232838
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	BH101
Sample Depth (m)	1.75
Sampling Date	06/04/2021

Determinand	Codes	Units	LOD	
BTEX				
Benzene	N	ug/l	1	< 1.00
Toluene	N	ug/l	1	1.97
Ethylbenzene	N	ug/l	1	2.92
Xylenes	N	ug/l	1	28.0
MTBE	N	ug/l	1	< 1.00
TPH CWG				
>C5-C6 Aliphatic	N	ug/l	1	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	< 5.0
>C10-C12 Aliphatic	N	ug/l	5	< 5.0
>C12-C16 Aliphatic	N	ug/l	5	< 5.0
>C16-C21 Aliphatic	N	ug/l	5	< 5.0
>C21-C35 Aliphatic	N	ug/l	5	33.7
>C35-C40 Aliphatic	N	ug/l	5	16.7
Total (>C5-C40) Aliphatic	N	ug/l	5	50.4
>C5-C7 Aromatic	N	ug/l	1	< 1.0
>C7-C8 Aromatic	N	ug/l	1	2.0
>C8-C10 Aromatic	N	ug/l	5	23.0
>C10-C12 Aromatic	N	ug/l	5	< 5.0
>C12-C16 Aromatic	N	ug/l	5	< 5.0
>C16-C21 Aromatic	N	ug/l	5	< 5.0
>C21-C35 Aromatic	N	ug/l	5	37.6
>C35-C40 Aromatic	N	ug/l	5	13.2
Total (>C5-C40) Aromatic	N	ug/l	5	75.9
Total (>C5-C40) Ali/Aro	N	ug/l	5	126
Total Petroleum Hydrocarbons				
Total TPH (C10-C40)	U	ug/l	100	1640

Method Summary

Report No.: 21-33079, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		14/04/2021		GC-FID
Aromatic hydrocarbons in water	N		14/04/2021		GC-FID
Basic carbon banding in water	N		14/04/2021		GC-FID
Petrol range organics in water	N		14/04/2021		GC-MS
Phenols in waters	N		09/04/2021		HPLC
pH of waters	U		09/04/2021	113	Electromeric
Sulphide in water	N		12/04/2021	134	Colorimetry
PAHs and/or PCBs in waters	N		13/04/2021	135	GC-MS
Electrical conductivity of water	U		09/04/2021	136	Electromeric
Solvent Extractable Matter in waters	N		12/04/2021	137	Gravimetry
Total Petroleum Hydrocarbons in waters	U		12/04/2021	178	GC-FID
BTEX in waters	N		12/04/2021	200	GC-MS
Low range Aliphatic hydrocarbons water	N		12/04/2021	200	GC-MS
Low range Aromatic hydrocarbons water	N		12/04/2021	200	GC-MS
Cyanide in waters	U		12/04/2021	205	Colorimetry
Aliphatic hydrocarbons in water	N		13/04/2021	215	GC-FID
Aromatic hydrocarbons in water	N		13/04/2021	215	GC-FID
Diesel range organics in water	N		14/04/2021	257	GC-FID
Anions	U		09/04/2021	270	Ion Chromatography
Dissolved metals by ICP in waters	U		09/04/2021	301	ICPMS

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Report Information

Report No.: 21-33079, issue number 1

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I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-33992

Issue: 2. Replaces Analytical Report number 21-33992; issue no.1

Date of Issue: 07/06/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3859

Customer Reference: LP2575

Date Received: 27/05/2021

Date Approved: 07/06/2021

Details: Novartis - Horsham

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-33992, issue number 2

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
238974	TT201 0.70	25/05/2021	28/05/2021	Loamy sand + stones	
238975	TT202B 0.80	25/05/2021	28/05/2021	Sand + stones	
238976	TT203 1.50	25/05/2021	28/05/2021	Sand + stones	
238977	TT207 1.00	25/05/2021	28/05/2021	Sand + stones	
238978	TT208 0.50	25/05/2021	28/05/2021	Loamy sand	
238979	TT206 0.75	25/05/2021	28/05/2021	Sand + stones	
238980	TT205 1.10	25/05/2021	28/05/2021	Sandy loam	
238981	TP201 1.50	25/05/2021	28/05/2021	Sand + stones	
238982	TT213 1.50	25/05/2021	28/05/2021	Sandy loam	
238983	TT204 1.00	26/05/2021	28/05/2021	Loamy sand + stones	
238984	TP204 2.80	26/05/2021	28/05/2021	Sand + stones	
238985	TP203 1.40	26/05/2021	28/05/2021	Sand + stones	
238986	TT214 0.40	26/05/2021	28/05/2021	Sand + stones	
238987	TT212 1.40	26/05/2021	28/05/2021	Sand + stones	
238988	TP202 0.80	26/05/2021	28/05/2021	Stones	
238989	TT210 1.40	26/05/2021	28/05/2021	Loamy sand	
238990	TT209 1.20	26/05/2021	28/05/2021	Sand + stones	
238991	TT211 1.80	26/05/2021	28/05/2021	Sand + stones	
238992	LWS6 1.80	26/05/2021	28/05/2021		
238993	LWS3 1.80	26/05/2021	28/05/2021		
238994	LWS4 1.80	26/05/2021	28/05/2021		
238995	LWS5 1.80	26/05/2021	28/05/2021		
238996	LWS1 1.80	26/05/2021	28/05/2021		
238997	LWS7 1.80	26/05/2021	28/05/2021		



Results Summary

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Report No.: 21-33992, issue number 2

ELAB Reference	238974	238975	238976	238977	238978
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TT201	TT202B	TT203	TT207	TT208
Sample Depth (m)	0.70	0.80	1.50	1.00	0.50
Sampling Date	25/05/2021	25/05/2021	25/05/2021	25/05/2021	25/05/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	n/t	n/t	n/t	n/t	n/t
Description of Inert material removed	N		0	n/t	n/t	n/t	n/t	n/t
Metals								
Arsenic	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Cadmium	M	mg/kg	0.5	n/t	n/t	n/t	n/t	n/t
Chromium	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Copper	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Lead	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Mercury	M	mg/kg	0.5	n/t	n/t	n/t	n/t	n/t
Nickel	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Selenium	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Zinc	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	n/t	n/t	n/t	n/t	n/t
Miscellaneous								
pH	M	pH units	0.1	n/t	n/t	n/t	n/t	n/t
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t	n/t	n/t
Phenols								
Phenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
M,P-Cresol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
O-Cresol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
3,4-Dimethylphenol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
2,3-Dimethylphenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
2,3,5-trimethylphenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total Monohydric Phenols	N	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	n/t	n/t	n/t



Results Summary

Report No.: 21-33992, issue number 2

ELAB Reference				238974	238975	238976	238977	238978
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TT201	TT202B	TT203	TT207	TT208
Sample Depth (m)				0.70	0.80	1.50	1.00	0.50
Sampling Date				25/05/2021	25/05/2021	25/05/2021	25/05/2021	25/05/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0	< 10.0
Toluene	M	ug/kg	10	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0	< 10.0
Xylenes	M	ug/kg	10	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0	< 10.0
MTBE	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	1.2
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	1.2



Results Summary

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Report No.: 21-33992, issue number 2

ELAB Reference	238979	238980	238981	238982	238983
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TT206	TT205	TP201	TT213	TT204
Sample Depth (m)	0.75	1.10	1.50	1.50	1.00
Sampling Date	25/05/2021	25/05/2021	25/05/2021	25/05/2021	26/05/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	n/t	46.0	n/t	n/t	n/t
Description of Inert material removed	N		0	n/t	Stones	n/t	n/t	n/t
Metals								
Arsenic	M	mg/kg	1	n/t	7.4	n/t	n/t	n/t
Cadmium	M	mg/kg	0.5	n/t	< 0.5	n/t	n/t	n/t
Chromium	M	mg/kg	5	n/t	30.1	n/t	n/t	n/t
Copper	M	mg/kg	5	n/t	116	n/t	n/t	n/t
Lead	M	mg/kg	5	n/t	92.2	n/t	n/t	n/t
Mercury	M	mg/kg	0.5	n/t	< 0.5	n/t	n/t	n/t
Nickel	M	mg/kg	5	n/t	20.0	n/t	n/t	n/t
Selenium	M	mg/kg	1	n/t	< 1.0	n/t	n/t	n/t
Zinc	M	mg/kg	5	n/t	140	n/t	n/t	n/t
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	n/t	< 0.8	n/t	n/t	n/t
Miscellaneous								
pH	M	pH units	0.1	n/t	9.2	n/t	n/t	n/t
Total Organic Carbon	N	%	0.01	n/t	1.4	n/t	n/t	n/t
Phenols								
Phenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
M,P-Cresol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
O-Cresol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
3,4-Dimethylphenol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
2,3-Dimethylphenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
2,3,5-trimethylphenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total Monohydric Phenols	N	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	< 0.4	n/t	n/t	n/t



Results Summary

Report No.: 21-33992, issue number 2

ELAB Reference				238979	238980	238981	238982	238983
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TT206	TT205	TP201	TT213	TT204
Sample Depth (m)				0.75	1.10	1.50	1.50	1.00
Sampling Date				25/05/2021	25/05/2021	25/05/2021	25/05/2021	26/05/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	^ < 10.0	< 10.0	^ < 10.0	< 10.0	^ < 10.0
Toluene	M	ug/kg	10	^ < 10.0	< 10.0	^ < 10.0	< 10.0	^ < 10.0
Ethylbenzene	M	ug/kg	10	^ < 10.0	< 10.0	^ < 10.0	< 10.0	^ < 10.0
Xylenes	M	ug/kg	10	^ < 10.0	< 10.0	^ < 10.0	< 10.0	^ < 10.0
MTBE	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	1.3	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	9.5	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	6.8	< 1.0	9.2	115	8.4
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	2.5	76.7	1.4
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	2.1	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	12.9	4.8
>C21-C35 Aromatic	N	mg/kg	1	1.7	< 1.0	12.2	153	25.8
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	< 1.0	8.2	94.1	3.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	8.5	< 1.0	32.1	465	43.4

Results Summary

Report No.: 21-33992, issue number 2

ELAB Reference				238984	238985	238986	238987	238988
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP204	TP203	TT214	TT212	TP202
Sample Depth (m)				2.80	1.40	0.40	1.40	0.80
Sampling Date				26/05/2021	26/05/2021	26/05/2021	26/05/2021	26/05/2021
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	n/t	n/t	n/t	n/t	n/a
Description of Inert material removed	N		0	n/t	n/t	n/t	n/t	n/a
Metals								
Arsenic	M	mg/kg	1	n/t	n/t	n/t	n/t	^ 3.8
Cadmium	M	mg/kg	0.5	n/t	n/t	n/t	n/t	^ < 0.5
Chromium	M	mg/kg	5	n/t	n/t	n/t	n/t	^ 57.1
Copper	M	mg/kg	5	n/t	n/t	n/t	n/t	^ 25.6
Lead	M	mg/kg	5	n/t	n/t	n/t	n/t	^ 15.2
Mercury	M	mg/kg	0.5	n/t	n/t	n/t	n/t	^ < 0.5
Nickel	M	mg/kg	5	n/t	n/t	n/t	n/t	^ 41.2
Selenium	M	mg/kg	1	n/t	n/t	n/t	n/t	^ < 1.0
Zinc	M	mg/kg	5	n/t	n/t	n/t	n/t	^ 193
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	n/t	n/t	n/t	n/t	< 0.8
Miscellaneous								
pH	M	pH units	0.1	n/t	n/t	n/t	n/t	^ 8.9
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t	n/t	0.20
Phenols								
Phenol	M	mg/kg	1	^ < 1	^ < 1	n/t	n/t	n/t
M,P-Cresol	N	mg/kg	1	< 1	< 1	n/t	n/t	n/t
O-Cresol	N	mg/kg	1	< 1	< 1	n/t	n/t	n/t
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	n/t	n/t	n/t
2,3-Dimethylphenol	M	mg/kg	1	^ < 1	^ < 1	n/t	n/t	n/t
2,3,5-trimethylphenol	M	mg/kg	1	^ < 1	^ < 1	n/t	n/t	n/t
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	n/t	n/t	n/t
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Acenaphthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ 0.1
Fluorene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Phenanthrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Chrysene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	n/t	n/t	^ < 0.4



Results Summary

Report No.: 21-33992, issue number 2

ELAB Reference				238984	238985	238986	238987	238988
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP204	TP203	TT214	TT212	TP202
Sample Depth (m)				2.80	1.40	0.40	1.40	0.80
Sampling Date				26/05/2021	26/05/2021	26/05/2021	26/05/2021	26/05/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0
Toluene	M	ug/kg	10	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0
Ethylbenzene	M	ug/kg	10	^ 37.2	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0
Xylenes	M	ug/kg	10	^ 268	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0
MTBE	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	1.3	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	2.7	1.1	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	6.7	4.1	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	214	61.4	5.6	4.8	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	186	37.4	< 1.0	1.0	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	1.6	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	4.8	2.8	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	198	42.5	7.6	3.3	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	220	18.5	2.5	< 1.0	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	833	169	15.7	9.2	< 1.0

Results Summary

2683

Report No.: 21-33992, issue number 2

ELAB Reference	238989	238990	238991
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	TT210	TT209	TT211
Sample Depth (m)	1.40	1.20	1.80
Sampling Date	26/05/2021	26/05/2021	26/05/2021

Determinand	Codes	Units	LOD			
Soil sample preparation parameters						
Material removed	N	%	0.1	n/t	n/t	n/t
Description of Inert material removed	N		0	n/t	n/t	n/t
Metals						
Arsenic	M	mg/kg	1	n/t	n/t	n/t
Cadmium	M	mg/kg	0.5	n/t	n/t	n/t
Chromium	M	mg/kg	5	n/t	n/t	n/t
Copper	M	mg/kg	5	n/t	n/t	n/t
Lead	M	mg/kg	5	n/t	n/t	n/t
Mercury	M	mg/kg	0.5	n/t	n/t	n/t
Nickel	M	mg/kg	5	n/t	n/t	n/t
Selenium	M	mg/kg	1	n/t	n/t	n/t
Zinc	M	mg/kg	5	n/t	n/t	n/t
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	n/t	n/t	n/t
Miscellaneous						
pH	M	pH units	0.1	n/t	n/t	n/t
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t
Phenols						
Phenol	M	mg/kg	1	n/t	n/t	n/t
M,P-Cresol	N	mg/kg	1	n/t	n/t	n/t
O-Cresol	N	mg/kg	1	n/t	n/t	n/t
3,4-Dimethylphenol	N	mg/kg	1	n/t	n/t	n/t
2,3-Dimethylphenol	M	mg/kg	1	n/t	n/t	n/t
2,3,5-trimethylphenol	M	mg/kg	1	n/t	n/t	n/t
Total Monohydric Phenols	N	mg/kg	5	n/t	n/t	n/t
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	n/t

Results Summary

Report No.: 21-33992, issue number 2

ELAB Reference	238989	238990	238991
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	TT210	TT209	TT211
Sample Depth (m)	1.40	1.20	1.80
Sampling Date	26/05/2021	26/05/2021	26/05/2021

Determinand	Codes	Units	LOD			
BTEX						
Benzene	M	ug/kg	10	< 10.0	^ < 10.0	^ < 10.0
Toluene	M	ug/kg	10	< 10.0	^ < 10.0	^ < 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	^ < 10.0	^ < 10.0
Xylenes	M	ug/kg	10	< 10.0	^ < 10.0	^ < 10.0
MTBE	N	ug/kg	10	< 10.0	< 10.0	< 10.0
TPH CWG						
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	1.7	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0	83.7	7.9
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	2.1	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	< 1.0	28.8	6.1
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	7.1	3.4
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0	124	17.4

Results Summary

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Report No.: 21-33992, issue number 2

ELAB Reference	238992	238993	238994	238995	238996
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	LWS6	LWS3	LWS4	LWS5	LWS1
Sample Depth (m)					
Sampling Date	26/05/2021	26/05/2021	26/05/2021	26/05/2021	26/05/2021
Determinand	Codes	Units	LOD		
Dissolved Metals					
Arsenic	U	ug/l	5	< 5	< 5
Cadmium	U	ug/l	1	< 1	< 1
Chromium	U	ug/l	5	< 5	40
Copper	U	ug/l	0.5	< 5	9
Mercury	U	ug/l	0.1	< 0.1	< 0.1
Nickel	U	ug/l	5	5	< 5
Lead	U	ug/l	1	< 1	< 1
Selenium	U	ug/l	5	< 5	< 5
Zinc	U	ug/l	5	46	< 5
Inorganics					
Hexavalent Chromium	U	ug/l	100	< 100	< 100
Miscellaneous					
Dissolved organic carbon	N	mg/l	1.5	< 1.5	3.8
pH	U	pH units	0.1	7.4	10.1
Phenols					
Phenol	N	ug/l	1	< 1	< 1
M,P-Cresol	N	ug/l	1	< 1	< 1
O-Cresol	N	ug/l	1	< 1	< 1
3,4-Dimethylphenol	N	ug/l	1	< 1	< 1
2,3-Dimethylphenol	N	ug/l	1	< 1	< 1
2,3,5-trimethylphenol	N	ug/l	1	< 1	< 1
Total Monohydric Phenols	N	ug/l	1	< 1	< 1
Polyaromatic hydrocarbons					
Naphthalene GCMS	N	ug/l	0.01	< 0.01	0.04
Acenaphthylene GCMS	N	ug/l	0.01	< 0.01	0.03
Acenaphthene GCMS	N	ug/l	0.01	< 0.01	0.03
Fluorene GCMS	N	ug/l	0.01	< 0.01	0.02
Phenanthrene GCMS	N	ug/l	0.01	< 0.01	0.15
Anthracene GCMS	N	ug/l	0.01	< 0.01	0.05
Fluoranthene GCMS	N	ug/l	0.01	< 0.01	0.43
Pyrene GCMS	N	ug/l	0.01	< 0.01	0.39
Benzo (a) anthracene GCMS	N	ug/l	0.01	< 0.01	0.18
Chrysene GCMS	N	ug/l	0.01	< 0.01	0.24
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	< 0.01	0.25
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	< 0.01	0.23
Benzo (a) pyrene GCMS	N	ug/l	0.01	< 0.01	0.22
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	< 0.01	0.15
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	< 0.01	0.05
Benzo(ghi)perylene GCMS	N	ug/l	0.01	< 0.01	0.19
Total PAH(16) GCMS	N	ug/l	0.01	0.08	2.65

Results Summary

Report No.: 21-33992, issue number 2

ELAB Reference				238992	238993	238994	238995	238996
Customer Reference								
Sample ID								
Sample Type				WATER	WATER	WATER	WATER	WATER
Sample Location				LWS6	LWS3	LWS4	LWS5	LWS1
Sample Depth (m)								
Sampling Date				26/05/2021	26/05/2021	26/05/2021	26/05/2021	26/05/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Xylenes	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
MTBE	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TPH CWG								
>C5-C6 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C35-C40 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C5-C7 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C7-C8 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aromatic	N	ug/l	5	< 5.0	< 5.0	5.7	< 5.0	< 5.0
>C21-C35 Aromatic	N	ug/l	5	< 5.0	< 5.0	81.8	< 5.0	29.6
>C35-C40 Aromatic	N	ug/l	5	< 5.0	< 5.0	40.6	< 5.0	< 5.0
Total (>C5-C40) Aromatic	N	ug/l	5	< 5.0	< 5.0	128	< 5.0	29.6
Total (>C5-C40) Ali/Aro	N	ug/l	5	< 5.0	< 5.0	128	< 5.0	29.6



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Results Summary

Report No.: 21-33992, issue number 2

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
238980	1.10	TT205	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
238988	0.80	TP202	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-33992, issue number 2

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	01/06/2021	110	Colorimetry
pH	M	Air dried sample	02/06/2021	113	Electromeric
Phenols in solids	M	As submitted sample	01/06/2021	121	HPLC
PAH (GC-FID)	M	As submitted sample	01/06/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	01/06/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	01/06/2021	181	GC-MS
BTEX in solids	M	As submitted sample	01/06/2021	181A	GC-MS
Total organic carbon/Total sulphur	N	Air dried sample	02/06/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	01/06/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	02/06/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	02/06/2021	214	GC-FID
Asbestos identification	U	Air dried sample	04/06/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/06/2021	300	ICPMS
Water					
Aliphatic/Aromatic hydrocarbons in water	N		07/06/2021		GC-FID
Aromatic hydrocarbons in water	N		07/06/2021		GC-FID
Phenols in waters	N		01/06/2021		HPLC
Dissolved organic carbon	N		02/06/2021	102	IR
pH of waters	U		01/06/2021	113	Electromeric
Chromium Hexavalent in waters	U		03/06/2021	123	Colorimetry
PAHs and/or PCBs in waters	N		03/06/2021	135	GC-MS
BTEX in waters	N		01/06/2021	200	GC-MS
Low range Aliphatic hydrocarbons water	N		01/06/2021	200	GC-MS
Low range Aromatic hydrocarbons water	N		01/06/2021	200	GC-MS
Aliphatic hydrocarbons in water	N		03/06/2021	215	GC-FID
Aromatic hydrocarbons in water	N		03/06/2021	215	GC-FID
Dissolved metals by ICP in waters	U		01/06/2021	301	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-33992, issue number 2

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-34500

Issue: 2. Replaces Analytical Report number 21-34500; issue no.1

Date of Issue: 29/06/2021

Contact: Martin Weil

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

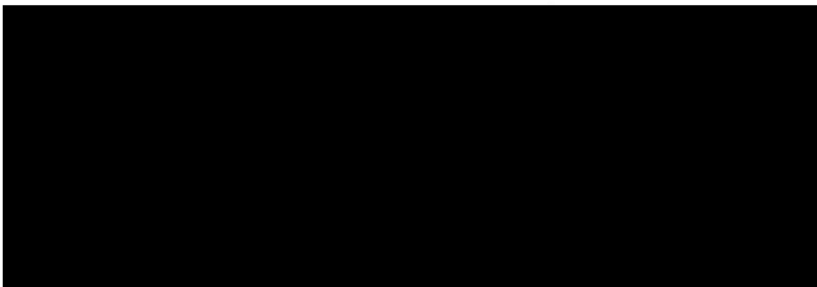
Order No: LPO-3973

Customer Reference: LP2575

Date Received: 25/06/2021

Date Approved: 29/06/2021

Details: Novartis - Horsham



Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-34500, issue number 2

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
242039	LWS7	24/06/2021	25/06/2021		
242040	LWS8	24/06/2021	25/06/2021		
242041	LWS10	24/06/2021	25/06/2021		
242042	LWS11	24/06/2021	25/06/2021		
242043	SW7	24/06/2021	25/06/2021		
242044	LWS2	24/06/2021	25/06/2021		

Results Summary

Report No.: 21-34500, issue number 2

ELAB Reference	242039	242040	242041	242042	242044
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	LWS7	LWS8	LWS10	LWS11	LWS2
Sample Depth (m)					
Sampling Date	24/06/2021	24/06/2021	24/06/2021	24/06/2021	24/06/2021
Determinand	Codes	Units	LOD		
Dissolved Metals					
Arsenic	U	ug/l	5	< 5	< 5
Calcium	U	ug/l	100	102000	n/t
Cadmium	U	ug/l	1	< 1	< 1
Chromium	U	ug/l	5	< 5	< 5
Copper	U	ug/l	0.5	2.7	3.1
Mercury	U	ug/l	0.1	< 0.1	< 0.1
Nickel	U	ug/l	5	< 5	< 5
Lead	U	ug/l	1	< 1	< 1
Selenium	U	ug/l	5	< 5	< 5
Zinc	U	ug/l	5	12	7
Inorganics					
Hexavalent Chromium	U	ug/l	100	< 100	< 100
Miscellaneous					
Dissolved organic carbon	N	mg/l	1.5	12	9.9
pH	U	pH units	0.1	6.9	7.5
Polyaromatic hydrocarbons					
Naphthalene GCMS	N	ug/l	0.01	0.02	< 0.01
Acenaphthylene GCMS	N	ug/l	0.01	< 0.01	< 0.01
Acenaphthene GCMS	N	ug/l	0.01	< 0.01	< 0.01
Fluorene GCMS	N	ug/l	0.01	< 0.01	< 0.01
Phenanthrene GCMS	N	ug/l	0.01	0.03	0.02
Anthracene GCMS	N	ug/l	0.01	0.01	< 0.01
Fluoranthene GCMS	N	ug/l	0.01	0.07	0.01
Pyrene GCMS	N	ug/l	0.01	0.07	0.02
Benzo (a) anthracene GCMS	N	ug/l	0.01	0.02	< 0.01
Chrysene GCMS	N	ug/l	0.01	0.04	< 0.01
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	0.03	< 0.01
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	0.04	< 0.01
Benzo (a) pyrene GCMS	N	ug/l	0.01	0.02	< 0.01
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	0.02	< 0.01
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	< 0.01	< 0.01
Benzo(ghi)perylene GCMS	N	ug/l	0.01	0.02	< 0.01
Total PAH(16) GCMS	N	ug/l	0.01	0.40	0.09

Results Summary

Report No.: 21-34500, issue number 2

ELAB Reference				242039	242040	242041	242042	242044
Customer Reference								
Sample ID								
Sample Type				WATER	WATER	WATER	WATER	WATER
Sample Location				LWS7	LWS8	LWS10	LWS11	LWS2
Sample Depth (m)								
Sampling Date				24/06/2021	24/06/2021	24/06/2021	24/06/2021	24/06/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Xylenes	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
MTBE	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TPH CWG								
>C5-C6 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	38.9	12.2
>C12-C16 Aliphatic	N	ug/l	5	8.2	< 5.0	< 5.0	172	31.3
>C16-C21 Aliphatic	N	ug/l	5	< 5.0	5.1	< 5.0	235	56.8
>C21-C35 Aliphatic	N	ug/l	5	< 5.0	87.7	15.6	712	481
>C35-C40 Aliphatic	N	ug/l	5	< 5.0	13.2	< 5.0	124	55.2
Total (>C5-C40) Aliphatic	N	ug/l	5	8.2	106	15.6	1280	636
>C5-C7 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C7-C8 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	23.9	13.7
>C12-C16 Aromatic	N	ug/l	5	7.1	< 5.0	< 5.0	126	28.1
>C16-C21 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	228	62.4
>C21-C35 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	765	656
>C35-C40 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	224	199
Total (>C5-C40) Aromatic	N	ug/l	5	7.1	< 5.0	< 5.0	1370	958
Total (>C5-C40) Ali/Aro	N	ug/l	5	15.3	106	15.6	2650	1590

Method Summary

Report No.: 21-34500, issue number 2

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		29/06/2021		GC-FID
Aromatic hydrocarbons in water	N		29/06/2021		GC-FID
Dissolved organic carbon	N		29/06/2021	102	IR
pH of waters	U		28/06/2021	113	Electromeric
Chromium Hexavalent in waters	U		28/06/2021	123	Colorimetry
PAHs and/or PCBs in waters	N		29/06/2021	135	GC-MS
BTEX in waters	N		28/06/2021	200	GC-MS
Low range Aliphatic hydrocarbons water	N		28/06/2021	200	GC-MS
Low range Aromatic hydrocarbons water	N		28/06/2021	200	GC-MS
Aliphatic hydrocarbons in water	N		29/06/2021	215	GC-FID
Aromatic hydrocarbons in water	N		29/06/2021	215	GC-FID
Dissolved metals by ICP in waters	U		28/06/2021	301	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-34500, issue number 2

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-34612

Issue: 1

Date of Issue: 02/07/2021

Contact: Martin Weil

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3990

Customer Reference: LP2575

Date Received: 01/07/2021

Date Approved: 02/07/2021

Details: Novartis - Horsham

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-34612, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
242856	LWS9	30/06/2021	01/07/2021		

Results Summary

Report No.: 21-34612, issue number 1

ELAB Reference	242856
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	LWS9
Sample Depth (m)	
Sampling Date	30/06/2021

Determinand	Codes	Units	LOD	
Dissolved Metals				
Arsenic	U	ug/l	5	< 5
Cadmium	U	ug/l	1	< 1
Chromium	U	ug/l	5	< 5
Copper	U	ug/l	0.5	2.5
Mercury	U	ug/l	0.1	< 0.1
Nickel	U	ug/l	5	< 5
Lead	U	ug/l	1	< 1
Selenium	U	ug/l	5	< 5
Zinc	U	ug/l	5	8
Inorganics				
Hexavalent Chromium	U	ug/l	100	< 100
Miscellaneous				
Dissolved organic carbon	N	mg/l	1.5	6.9
pH	U	pH units	0.1	7.2
Polyaromatic hydrocarbons				
Naphthalene GCMS	N	ug/l	0.01	0.13
Acenaphthylene GCMS	N	ug/l	0.01	< 0.01
Acenaphthene GCMS	N	ug/l	0.01	< 0.01
Fluorene GCMS	N	ug/l	0.01	< 0.01
Phenanthrene GCMS	N	ug/l	0.01	0.02
Anthracene GCMS	N	ug/l	0.01	0.01
Fluoranthene GCMS	N	ug/l	0.01	0.03
Pyrene GCMS	N	ug/l	0.01	0.03
Benzo (a) anthracene GCMS	N	ug/l	0.01	0.01
Chrysene GCMS	N	ug/l	0.01	0.02
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	0.01
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	0.01
Benzo (a) pyrene GCMS	N	ug/l	0.01	< 0.01
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	< 0.01
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	< 0.01
Benzo(ghi)perylene GCMS	N	ug/l	0.01	< 0.01
Total PAH(16) GCMS	N	ug/l	0.01	0.34



2683

Results Summary

Report No.: 21-34612, issue number 1

ELAB Reference	242856
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	LWS9
Sample Depth (m)	
Sampling Date	30/06/2021

Determinand	Codes	Units	LOD	
BTEX				
Benzene	N	ug/l	1	< 1.00
Toluene	N	ug/l	1	1.31
Ethylbenzene	N	ug/l	1	< 1.00
Xylenes	N	ug/l	1	1.36
MTBE	N	ug/l	1	< 1.00
TPH CWG				
>C5-C6 Aliphatic	N	ug/l	1	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	< 5.0
>C10-C12 Aliphatic	N	ug/l	5	< 5.0
>C12-C16 Aliphatic	N	ug/l	5	< 5.0
>C16-C21 Aliphatic	N	ug/l	5	< 5.0
>C21-C35 Aliphatic	N	ug/l	5	< 5.0
>C35-C40 Aliphatic	N	ug/l	5	< 5.0
Total (>C5-C40) Aliphatic	N	ug/l	5	< 5.0
>C5-C7 Aromatic	N	ug/l	1	< 1.0
>C7-C8 Aromatic	N	ug/l	1	1.3
>C8-C10 Aromatic	N	ug/l	5	< 5.0
>C10-C12 Aromatic	N	ug/l	5	< 5.0
>C12-C16 Aromatic	N	ug/l	5	< 5.0
>C16-C21 Aromatic	N	ug/l	5	5.1
>C21-C35 Aromatic	N	ug/l	5	< 5.0
>C35-C40 Aromatic	N	ug/l	5	< 5.0
Total (>C5-C40) Aromatic	N	ug/l	5	6.4
Total (>C5-C40) Ali/Aro	N	ug/l	5	6.4

Method Summary

Report No.: 21-34612, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		02/07/2021		GC-FID
Aromatic hydrocarbons in water	N		02/07/2021		GC-FID
Dissolved organic carbon	N		02/07/2021	102	IR
pH of waters	U		02/07/2021	113	Electromeric
Chromium Hexavalent in waters	U		02/07/2021	123	Colorimetry
PAHs and/or PCBs in waters	N		02/07/2021	135	GC-MS
BTEX in waters	N		02/07/2021	200	GC-MS
Low range Aliphatic hydrocarbons water	N		02/07/2021	200	GC-MS
Low range Aromatic hydrocarbons water	N		02/07/2021	200	GC-MS
Aliphatic hydrocarbons in water	N		02/07/2021	215	GC-FID
Aromatic hydrocarbons in water	N		02/07/2021	215	GC-FID
Dissolved metals by ICP in waters	U		02/07/2021	301	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-34612, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
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I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
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LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



Unit 7-8 Hawarden Business Park

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Hawarden

Deeside

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email: hawardencustomerservices@alsglobal.com

Website: www.alsenvironmental.co.uk

Leap Environmental
Premier House
46 Victoria Road
Burgess Hill
RG15 9LR

Attention: Martin Weil

CERTIFICATE OF ANALYSIS

Date of report Generation:	21 May 2021
Customer:	Leap Environmental
Sample Delivery Group (SDG):	210514-80
Your Reference:	LP2575
Location:	NoramtisNoramtis
Report No:	598950

We received 2 samples on Friday May 14, 2021 and 2 of these samples were scheduled for analysis which was completed on Wednesday May 19, 2021. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S)

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory





CERTIFICATE OF ANALYSIS

Validated

SDG:	210514-80	Client Reference:	LP2575	Report Number:	598950
Location:	NoramtisNoramtis	Order Number:	LPO-3751	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
24268123	BH106			12/05/2021
24268122	WS106			12/05/2021

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80 **Client Reference:** LP2575 **Report Number:** 598950
Location: NoramtisNoramtis **Order Number:** LPO-3751 **Superseded Report:**

Results Legend

X Test
N No Determination Possible

Sample Types -

S - Soil/Solid
 UNS - Unspecified Solid
 GW - Ground Water
 SW - Surface Water
 LE - Land Leachate
 PL - Prepared Leachate
 PR - Process Water
 SA - Saline Water
 TE - Trade Effluent
 TS - Treated Sewage
 US - Untreated Sewage
 RE - Recreational Water
 DW - Drinking Water Non-regulatory
 UNL - Unspecified Liquid
 SL - Sludge
 G - Gas
 OTH - Other

Lab Sample No(s)

24268123
24268122

Customer Sample Reference

BH106
S106

AGS Reference

Depth (m)

Container

Gas Canister
Gas Canister

Sample Type

G
G

Bulk Gas	All	NDPs: 0 Tests: 2	X	X
Helium	All	NDPs: 0 Tests: 2	X	X
Odourant Gas Analysis (G)	All	NDPs: 0 Te t 2	X	X
TPH in Gas samples	All	NDPs: 0 Tests: 2	X	X
VOC's	All	NDPs: 0 Tests: 2	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtiNoramtiClient Reference: LP2575
Order Number: LPO-3751Report Number: 598950
Superseded Report:

Sample Number 24268122

Sample ID WS106

Depth

Sampled Date 12/05/2021 00:00:00

Method TM335 Determination of TPH in atmospheric, sub-slab and soil gas samples

Canister No. 0118 Sample Volume (ml) 30 Initial pressure (psia) 12.26 Final pressure (psia) 20.05 Dilution 1.6353996737

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
1634-04-4	MTBE	<8.18	20.5	ppbv	<29.4	73.9	ug/m ³
71-43-2	Benzene	<7.09	28.4	ppbv	<22.6	90.6	ug/m ³
108-88-3	Toluene	<8.18	277	ppbv	<30.8	1040	ug/m ³
100-41-4	Ethyl Benzene	<8.18	29.9	ppbv	<35.5	130	ug/m ³
108-38-3 & 106-42-3	m/p-Xylene	<8.18	108	ppbv	<35.5	469	ug/m ³
95-47-6	o-Xylene	<8.18	36.3	ppbv	<35.5	157	ug/m ³
91-20-3	Naphthalene	<12.5	<12.5	ppbv	<65.4	<65.6	ug/m ³
-	TPH (C4-C6)	<54.5	729	ppbv	<159	2130	ug/m ³
-	TPH (C6-C8)	<54.5	815	ppbv	<201	3000	ug/m ³
-	TPH (C8-C10)	<74.7	385	ppbv	<353	1820	ug/m ³
-	TPH (C10-C12)	<116	<116	ppbv	<672	<670	ug/m ³
-	TPH (C4-C12)	<300	1930	ppbv	<1390	6950	ug/m ³
-	Aliphatic (C4-C6)	<54.5	729	ppbv	<159	2130	ug/m ³
-	Aliphatic (C6-C8)	<39.2	510	ppbv	<148	1870	ug/m ³
-	Aliphatic (C8-C10)	<20.2	96.7	ppbv	<103	498	ug/m ³
-	Aliphatic (C10-C12)	<61.5	<61.5	ppbv	<245	<245	ug/m ³
-	Aromatic (EC5-EC7)	<7.09	28.4	ppbv	<22.6	90.6	ug/m ³
-	Aromatic (EC7-EC8)	<8.18	277	ppbv	<30.8	1040	ug/m ³
-	Aromatic (EC8-EC10)	<54.5	288	ppbv	<250	1320	ug/m ³
-	Aromatic (EC10-EC12)	<54.5	<54.5	ppbv	<427	<427	ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtiNoramtiClient Reference: LP2575
Order Number: LPO-3751Report Number: 598950
Superseded Report:

Sample Number 24268123

Sample ID BH106

Depth

Sampled Date 12/05/2021 00:00:00

Method TM335 Determination of TPH in atmospheric, sub-slab and soil gas samples

Canister No. 0117 Sample Volume (ml) 50 Initial pressure (psia) 12.71 Final pressure (psia) 19.67 Dilution 1.5476003147

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
1634-04-4	MTBE	<4.64	15.3	ppbv	<16.7	55.2	ug/m ³
71-43-2	Benzene	<4.02	21.1	ppbv	<12.8	67.4	ug/m ³
108-88-3	Toluene	<4.64	264	ppbv	<17.5	994	ug/m ³
100-41-4	Ethyl Benzene	<4.64	30.3	ppbv	<20.1	132	ug/m ³
108-38-3 & 106-42-3	m/p-Xylene	<4.64	112	ppbv	<20.1	484	ug/m ³
95-47-6	o-Xylene	<4.64	37.0	ppbv	<20.1	160	ug/m ³
91-20-3	Naphthalene	<7.12	<7.12	ppbv	<37.3	<37.3	ug/m ³
-	TPH (C4-C6)	<31.0	610	ppbv	<90.4	1780	ug/m ³
-	TPH (C6-C8)	<31.0	703	ppbv	<114	2590	ug/m ³
-	TPH (C8-C10)	<42.4	422	ppbv	<200	2000	ug/m ³
-	TPH (C10-C12)	<65.6	<65.6	ppbv	<380	<380	ug/m ³
-	TPH (C4-C12)	<170	1740	ppbv	<784	6370	ug/m ³
-	Aliphatic (C4-C6)	<31.0	610	ppbv	<90.4	1780	ug/m ³
-	Aliphatic (C6-C8)	<22.3	418	ppbv	<83.7	1530	ug/m ³
-	Aliphatic (C8-C10)	<11.4	130	ppbv	<58.0	656	ug/m ³
-	Aliphatic (C10-C12)	<34.6	<34.6	ppbv	<137	<137	ug/m ³
-	Aromatic (EC5-EC7)	<4.02	21.1	ppbv	<12.8	67.4	ug/m ³
-	Aromatic (EC7-EC8)	<4.64	264	ppbv	<17.5	994	ug/m ³
-	Aromatic (EC8-EC10)	<31.0	292	ppbv	<142	1340	ug/m ³
-	Aromatic (EC10-EC12)	<31.0	<31.0	ppbv	<243	<242	ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtiNoramti

Client Reference: LP2575
Order Number: LPO-3751

Report Number: 598950
Superseded Report:

Sample Number 24268122

Sample ID WS106

Depth

Sampled Date 12/05/2021 00:00:00

Method TM330 Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 0118

Sample Volume (ml) 30 **Dispatch pressure (psia)** -0.10 **Initial pressure (psia)** 12.26 **Final pressure (psia)** 20.05 **Dilution** 1.6353996737

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
71-55-6	1,1,1-Trichloroethane	<8.18	<8.18	ppbv	<44.5	<44.5	ug/m ³
79-34-5	1,1,2,2-Tetrachloroethane	<8.18	<8.18	ppbv	<56.2	<56.2	ug/m ³
79-00-5	1,1,2-Trichloroethane	<8.18	<8.18	ppbv	<44.5	<44.5	ug/m ³
75-34-3	1,1-Dichloroethane	<8.18	<8.18	ppbv	<33.1	<33.1	ug/m ³
75 35 4	1,1 Dichloroethene	8.18	8.18	ppbv	32.5	32.4	ug/m
526-73-8	1,2,3-Trimethylbenzene	<8.18	<8.18	ppbv	<40.1	<40.1	ug/m ³
120-82-1	1,2,4-Trichlorobenzene	<8.18	35.7	ppbv	<60.6	264	ug/m ³
95-63-6	1,2,4-Trimethylbenzene	<8.18	<8.18	ppbv	<40.1	<40.1	ug/m ³
106-93-4	1,2-Dibromoethane	<8.18	<8.18	ppbv	<62.9	<62.9	ug/m ³
95-50-1	1,2-Dichlorobenzene	<8.18	<8.18	ppbv	<49.2	<49.2	ug/m ³
107-06-2	1,2-Dichloroethane	<8.18	<8.18	ppbv	<33.1	<33.1	ug/m ³
78-87-5	1,2-Dichloropropane	<8.18	<8.18	ppbv	<37.8	<37.8	ug/m ³
76-14-2	1,2-Dichlorotetrafluoroethane	<8.18	<8.18	ppbv	<57.2	<57.2	ug/m ³
108-67-8	1,3,5-Trimethylbenzene	<8.18	9.91	ppbv	<40.1	48.6	ug/m ³
106-99-0	1,3-Butadiene	<8.18	<8.18	ppbv	<18.1	<18.1	ug/m ³
106-46-7	1,4-Dichlorobenzene	<8.18	<8.18	ppbv	<49.2	<49.2	ug/m ³
123-91-1	1,4-Dioxane	<8.18	<8.18	ppbv	<29.4	<29.4	ug/m ³
71-23-8	1-Propanol	<8.18	<8.18	ppbv	<20.1	<20.1	ug/m ³
78-93-3	2-Butanone (MEK)	<8.18	12.4	ppbv	<24.1	36.4	ug/m ³
591-78-6	2-Hexanone	<8.18	<8.18	ppbv	<33.5	<33.4	ug/m ³
107-87-9	2-Pentanone	<8.18	<8.18	ppbv	<28.8	<28.8	ug/m ³
589-38-8	3-Hexanone	<8.18	<8.18	ppbv	<33.5	<33.4	ug/m ³
96-22-0	3-Pentanone	<8.18	<8.18	ppbv	<28.8	<28.8	ug/m ³
108-10-1	4-Methyl-2-pentanone	<8.18	<8.18	ppbv	<33.5	<33.4	ug/m ³
67-64-1 & 123-38-6	Acetone + Propanal	<16.4	34.8	ppbv	<38.9	82.6	ug/m ³
75-05-8	Acetonitrile	<8.18	<8.18	ppbv	<13.7	<13.7	ug/m ³
107-02-8	Acrolein	<8.18	<8.18	ppbv	<18.7	<18.7	ug/m ³
71-43-2	Benzene	<7.09	28.0	ppbv	<22.6	89.3	ug/m ³
100-44-7	Benzyl Chloride	<8.18	<8.18	ppbv	<42.5	<42.5	ug/m ³
75-27-4	Bromodichloromethane	<8.18	<8.18	ppbv	<54.9	<54.8	ug/m ³
75-25-2	Bromoform	<8.18	<8.18	ppbv	<84.6	<84.6	ug/m ³
74-83-9	Bromomethane	<8.18	<8.18	ppbv	<31.8	<31.8	ug/m ³
123-72-8	Butanal	<8.18	<8.18	ppbv	<24.1	<24.1	ug/m ³
75-15-0	Carbon Disulfide	<8.18	<8.18	ppbv	<25.4	<25.4	ug/m ³
56-23-5	Carbon Tetrachloride	<8.18	<8.18	ppbv	<51.5	<51.5	ug/m ³
108-90-7	Chlorobenzene	<8.18	<8.18	ppbv	<37.8	<37.8	ug/m ³
75-00-3	Chloroethane	<8.18	<8.18	ppbv	<21.7	<21.7	ug/m ³
67-66-3	Chloroform	<8.18	<8.18	ppbv	<39.8	<39.8	ug/m ³
74-87-3	Chloromethane	<8.18	<8.18	ppbv	<16.7	<16.7	ug/m ³
156-59-2	cis-1,2-Dichloroethene	<8.18	<8.18	ppbv	<32.5	<32.4	ug/m ³
10061-01-5	cis-1,3-Dichloropropene	<8.18	<8.18	ppbv	<37.1	<37.1	ug/m ³
110-82-7	Cyclohexane	<8.18	13.6	ppbv	<28.1	46.6	ug/m ³
75-71-8	Dichlorodifluoromethane	<8.18	<8.18	ppbv	<40.5	<40.5	ug/m ³
75-45-6	Difluorochloromethane	<8.18	<8.18	ppbv	<28.8	<28.8	ug/m ³
100-41-4	Ethylbenzene	<8.18	43.3	ppbv	<35.5	188	ug/m ³
87-68-3	Hexachlorobutadiene	<8.18	<8.18	ppbv	<87.0	<87.0	ug/m ³
66-25-1	Hexanal	<8.18	<8.18	ppbv	<33.5	<33.4	ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtisNoramtis

Client Reference: LP2575
Order Number: LPO-3751

Report Number: 598950
Superseded Report:

Sample Number 24268122

Sample ID WS106

Depth

Sampled Date 12/05/2021 00:00:00

Method TM330 Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 0118

Sample Volume (ml) 30 Dispatch pressure (psia) -0.10 Initial pressure (psia) 12.26 Final pressure (psia) 20.05 Dilution 1.6353996737

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
110-54-3	Hexane	<8.18	172	ppbv	<28.8	604	ug/m ³
74-88-4	Iodomethane	<8.18	<8.18	ppbv	<47.5	<47.5	ug/m ³
115-11-7	Isobutene	<8.18	85.7	ppbv	<18.7	196	ug/m ³
78-79-5	Isoprene	<8.18	<8.18	ppbv	<22.8	<22.7	ug/m ³
108 38 3 & 106 42 3	m/p Xylene	16.4	155	ppbv	71.1	672	ug/m
78-85-3	Methylacrolein	<8.18	<8.18	ppbv	<23.4	<23.4	ug/m ³
75-09-2	Methylene Chloride	<8.18	<8.18	ppbv	<28.4	<28.4	ug/m ³
1634-04-4	MTBE	<8.18	24.2	ppbv	<29.4	87.2	ug/m ³
91-20-3	Naphthalene	<8.18	<8.18	ppbv	<42.8	<42.8	ug/m ³
95-47-6	o-Xylene	<8.18	52.6	ppbv	<35.5	228	ug/m ³
110-62-3	Pentanal	<8.18	<8.18	ppbv	<28.8	<28.8	ug/m ³
109-66-0	Pentane	<8.18	39.9	ppbv	<24.1	117	ug/m ³
100-42-5	Styrene	<8.18	<8.18	ppbv	<34.8	<34.8	ug/m ³
127-18-4	Tetrachloroethene	<8.18	<8.18	ppbv	<55.5	<55.5	ug/m ³
108-88-3	Toluene	<8.18	347	ppbv	<30.8	1310	ug/m ³
156-60-5	trans-1,2-Dichloroethene	<8.18	<8.18	ppbv	<32.5	<32.4	ug/m ³
1006-02-6	trans-1,3-Dichloropropene	<8.18	<8.18	ppbv	<37.1	<37.1	ug/m ³
79-01-6	Trichloroethene	<8.18	<8.18	ppbv	<43.8	<43.8	ug/m ³
75-69-4	Trichlorofluoromethane	<8.18	78.9	ppbv	<45.8	442	ug/m ³
26523-64-8	Trichlorotrifluoroethane	<8.18	<8.18	ppbv	<62.6	<62.5	ug/m ³
108-05-4	Vinyl Acetate	<8.18	<8.18	ppbv	<28.8	<28.8	ug/m ³
75-01-4	Vinyl Chloride	<8.18	<8.18	ppbv	<20.7	<20.7	ug/m ³
	TIC's					See Attached	



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtiNoramtiClient Reference: LP2575
Order Number: LPO-3751Report Number: 598950
Superseded Report:

Sample Number 24268123

Sample ID BH106

Depth

Sampled Date 12/05/2021 00:00:00

Method TM330 Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 0117

Sample Volume (ml) 50 Dispatch pressure (psia) -0.02 Initial pressure (psia) 12.71 Final pressure (psia) 19.67 Dilution 1.5476003147

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
71-55-6	1,1,1-Trichloroethane	<4.64	<4.64	ppbv	<25.2	<25.3	ug/m ³
79-34-5	1,1,2,2-Tetrachloroethane	<4.64	<4.64	ppbv	<31.9	<31.9	ug/m ³
79-00-5	1,1,2-Trichloroethane	<4.64	<4.64	ppbv	<25.2	<25.3	ug/m ³
75-34-3	1,1-Dichloroethane	<4.64	<4.64	ppbv	<18.8	<18.8	ug/m ³
75 35 4	1,1 Dichloroethene	4.64	4.64	ppbv	18.4	18.4	ug/m
526-73-8	1,2,3-Trimethylbenzene	<4.64	6.20	ppbv	<22.8	30.4	ug/m ³
120-82-1	1,2,4-Trichlorobenzene	<4.64	34.5	ppbv	<34.3	256	ug/m ³
95-63-6	1,2,4-Trimethylbenzene	<4.64	<4.64	ppbv	<22.8	<22.8	ug/m ³
106-93-4	1,2-Dibromoethane	<4.64	<4.64	ppbv	<35.7	<35.7	ug/m ³
95-50-1	1,2-Dichlorobenzene	<4.64	<4.64	ppbv	<27.9	<27.9	ug/m ³
107-06-2	1,2-Dichloroethane	<4.64	<4.64	ppbv	<18.8	<18.8	ug/m ³
78-87-5	1,2-Dichloropropane	<4.64	<4.64	ppbv	<21.4	<21.5	ug/m ³
76-14-2	1,2-Dichlorotetrafluoroethane	<4.64	<4.64	ppbv	<32.5	<32.5	ug/m ³
108-67-8	1,3,5-Trimethylbenzene	<4.64	8.72	ppbv	<22.8	42.8	ug/m ³
106-99-0	1,3-Butadiene	<4.64	<4.64	ppbv	<10.2	<10.3	ug/m ³
106-46-7	1,4-Dichlorobenzene	<4.64	<4.64	ppbv	<27.9	<27.9	ug/m ³
123-91-1	1,4-Dioxane	<4.64	<4.64	ppbv	<16.7	<16.7	ug/m ³
71-23-8	1-Propanol	<4.64	<4.64	ppbv	<11.4	<11.4	ug/m ³
78-93-3	2-Butanone (MEK)	<4.64	12.2	ppbv	<13.7	36.0	ug/m ³
591-78-6	2-Hexanone	<4.64	<4.64	ppbv	<19.0	<19.0	ug/m ³
107-87-9	2-Pentanone	<4.64	<4.64	ppbv	<16.3	<16.3	ug/m ³
589-38-8	3-Hexanone	<4.64	<4.64	ppbv	<19.0	<19.0	ug/m ³
96-22-0	3-Pentanone	<4.64	<4.64	ppbv	<16.3	<16.3	ug/m ³
108-10-1	4-Methyl-2-pentanone	<4.64	<4.64	ppbv	<19.0	<19.0	ug/m ³
67-64-1 & 123-38-6	Acetone + Propanal	<9.29	46.9	ppbv	<22.0	111	ug/m ³
75-05-8	Acetonitrile	<4.64	<4.64	ppbv	<7.78	<7.79	ug/m ³
107-02-8	Acrolein	<4.64	<4.64	ppbv	<10.6	<10.6	ug/m ³
71-43-2	Benzene	<4.02	20.8	ppbv	<12.8	66.5	ug/m ³
100-44-7	Benzyl Chloride	<4.64	<4.64	ppbv	<24.1	<24.1	ug/m ³
75-27-4	Bromodichloromethane	<4.64	<4.64	ppbv	<31.1	<31.1	ug/m ³
75-25-2	Bromoform	<4.64	<4.64	ppbv	<48.0	<48.0	ug/m ³
74-83-9	Bromomethane	<4.64	<4.64	ppbv	<18.0	<18.0	ug/m ³
123-72-8	Butanal	<4.64	<4.64	ppbv	<13.7	<13.7	ug/m ³
75-15-0	Carbon Disulfide	<4.64	25.8	ppbv	<14.4	80.2	ug/m ³
56-23-5	Carbon Tetrachloride	<4.64	<4.64	ppbv	<29.2	<29.2	ug/m ³
108-90-7	Chlorobenzene	<4.64	<4.64	ppbv	<21.4	<21.5	ug/m ³
75-00-3	Chloroethane	<4.64	<4.64	ppbv	<12.3	<12.3	ug/m ³
67-66-3	Chloroform	<4.64	<4.64	ppbv	<22.6	<22.6	ug/m ³
74-87-3	Chloromethane	<4.64	<4.64	ppbv	<9.49	<9.49	ug/m ³
156-59-2	cis-1,2-Dichloroethene	<4.64	<4.64	ppbv	<18.4	<18.4	ug/m ³
10061-01-5	cis-1,3-Dichloropropene	<4.64	<4.64	ppbv	<21.1	<21.1	ug/m ³
110-82-7	Cyclohexane	<4.64	16.9	ppbv	<15.9	58.2	ug/m ³
75-71-8	Dichlorodifluoromethane	<4.64	<4.64	ppbv	<23.0	<23.0	ug/m ³
75-45-6	Difluorochloromethane	<4.64	<4.64	ppbv	<16.3	<16.3	ug/m ³
100-41-4	Ethylbenzene	<4.64	40.4	ppbv	<20.1	175	ug/m ³
87-68-3	Hexachlorobutadiene	<4.64	<4.64	ppbv	<49.3	<49.4	ug/m ³
66-25-1	Hexanal	<4.64	<4.64	ppbv	<19.0	<19.0	ug/m ³
110-54-3	Hexane	<4.64	56.9	ppbv	<16.3	200	ug/m ³

13:45:30 21/05/2021



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtisNoramtis

Client Reference: LP2575
Order Number: LPO-3751

Report Number: 598950
Superseded Report:

Sample Number 24268123

Sample ID BH106

Depth

Sampled Date 12/05/2021 00:00:00

Method TM330 Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 0117

Sample Volume (ml) 50 Dispatch pressure (psia) -0.02 Initial pressure (psia) 12.71 Final pressure (psia) 19.67 Dilution 1.5476003147

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
74 88 4	Iodomethane	4.64	4.64	ppbv	26.9	27.0	ug/m
115-11-7	Isobutene	<4.64	24.4	ppbv	<10.6	55.9	ug/m ³
78-79-5	Isoprene	<4.64	<4.64	ppbv	<12.9	<12.9	ug/m ³
108-38-3 & 106-42-3	m/p-Xylene	<9.29	148	ppbv	<40.3	640	ug/m ³
78-85-3	Methylacrolein	<4.64	<4.64	ppbv	<13.3	<13.3	ug/m ³
75-09-2	Methylene Chloride	<4.64	<4.64	ppbv	<16.1	<16.1	ug/m ³
1634-04-4	MTBE	<4.64	17.9	ppbv	<16.7	64.6	ug/m ³
91-20-3	Naphthalene	<4.64	<4.64	ppbv	<24.3	<24.3	ug/m ³
95-47-6	o-Xylene	<4.64	49.4	ppbv	<20.1	214	ug/m ³
110-62-3	Pentanal	<4.64	<4.64	ppbv	<16.3	<16.3	ug/m ³
109-66-0	Pentane	<4.64	105	ppbv	<13.7	309	ug/m ³
100-42-5	Styrene	<4.64	<4.64	ppbv	<19.7	<19.7	ug/m ³
127-18-4	Tetrachloroethene	<4.64	<4.64	ppbv	<31.5	<31.5	ug/m ³
108-88-3	Toluene	<4.64	303	ppbv	<17.5	1140	ug/m ³
156-60-5	trans-1,2-Dichloroethene	<4.64	<4.64	ppbv	<18.4	<18.4	ug/m ³
1006-02-6	trans-1,3-Dichloropropene	<4.64	<4.64	ppbv	<21.1	<21.1	ug/m ³
79-01-6	Trichloroethene	<4.64	<4.64	ppbv	<24.9	<24.9	ug/m ³
75-69-4	Trichlorofluoromethane	<4.64	5.30	ppbv	<26.0	29.7	ug/m ³
26523-64-8	Trichlorotrifluoroethane	<4.64	<4.64	ppbv	<35.5	<35.5	ug/m ³
108-05-4	Vinyl Acetate	<4.64	<4.64	ppbv	<16.3	<16.3	ug/m ³
75-01-4	Vinyl Chloride	<4.64	<4.64	ppbv	<11.8	<11.8	ug/m ³
	TIC's					See Attached	



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80 **Client Reference:** LP2575 **Report Number:** 598950
Location: NoramtisNoramtis **Order Number:** LPO-3751 **Superseded Report:**

Table of Results - Appendix

Method No	Reference	Description
TM053	MEWAM Methane & Hydrocarbon gases HMSO 1988	Determination of Bulk Gas Composition
TM216	The Determination of Sulphur Gases in Natural Gas with Pulsed Flame Photometric Detector", Varian application note number 60, Norman Kirshen	The Determination of Odourant Compounds in Gases by Gas Chromatography with PFPD Detection
TM330	EPA/625/R-96/010b (based on)	Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)
TM330H		
TM335		TPH in atmospheric, sub-slab and soil gas samples

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtisNoramtis

Client Reference: LP2575
Order Number: LPO-3751

Report Number: 598950
Superseded Report:

Test Completion Dates

Lab Sample No(s)	24268123	24268122
Customer Sample Ref.	BH106	WS106
AGS Ref.		
Depth		
Type	Gas (G)	Gas (G)
Bulk Ga	17-May-2021	17-May-2021
Helium	19-May-2021	19-May-2021
Odourant Gas Analysis (G)	17-May-2021	17-May-2021
TPH in Gas samples	19-May-2021	19-May-2021
VOC's	19-May-2021	19-May-2021



VOC TENTATIVELY IDENTIFIED COMPOUNDS REPORT

JOB NUMBER:	210514-80
SAMPLE IDENTITY:	BH106
DATE REPORTED:	18/05/2021
ANALYST:	Gosia Polomska

TENTATIVE COMPOUND IDENTIFICATION		RESULT (ppbv)	RESULT (µg/m3)
1	Propane	5324	9594
2	Mixed Hydrocarbons - IS1	5180	
3	Silanol, trimethyl-	970	3573
4	Pentane, methyl-	3207	11294
5	Cyclopentane, methyl-	1199	4123
6	Hexane, methyl-	30	122
7	Octane	624	2912
8	Cyclotrisiloxane, hexamethyl-	689	6257
9	Benzene, ethylmethyl-	725	3561
10	Mixed Hydrocarbons - IS4	577.6	

Tentatively Identified Compounds (TICs) are non-target peaks in the VOC air analysis. All non-target peaks detected with a concentration above the LoD of 10ppbv are subjected to a mass spectral library search. Non-target peaks with a **Library Search Confidence of >75%** are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as **"Mixed Hydrocarbons"**. Non-target compounds identified from the scan data are semi-quantified relative to one of the internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as a Tentatively Identified Compound (TIC). TICs are outside the scope of our UKAS accreditation.



VOC TENTATIVELY IDENTIFIED COMPOUNDS REPORT

JOB NUMBER:	210514-80
SAMPLE IDENTITY:	WS106
DATE REPORTED:	19/05/2021
ANALYST:	Gosia Polomska

TENTATIVE COMPOUND IDENTIFICATION		RESULT (ppbv)	RESULT (µg/m3)
1	Propane	686	1237
2	Ethyl alcohol	330	621
3	Butane, methyl-	782	2305
4	Silanol, trimethyl-	1229	4526
5	Pentane, methyl-	2203	7758
6	Cyclopentane, methyl-	1557	5356
7	Hexane, methyl-	1095	4482
8	Heptane	153	626
9	Octane	349	1630
10	Cyclotrisiloxane, hexamethyl-	790.2	7177.1

Tentatively Identified Compounds (TICs) are non-target peaks in the VOC air analysis. All non-target peaks detected with a concentration above the LoD of 10ppbv are subjected to a mass spectral library search. Non-target peaks with a **Library Search Confidence of >75%** are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as **"Mixed Hydrocarbons"**. Non-target compounds identified from the scan data are semi-quantified relative to one of the internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as a Tentatively Identified Compound (TIC). TICs are outside the scope of our UKAS accreditation.



CERTIFICATE OF ANALYSIS

SDG:	210514-80	Client Reference:	LP2575	Report Number:	598950
Location:	NoramtisNoramtis	Order Number:	LPO-3751	Superseded Report:	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

19. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.
Standing Committee of Analysts, *The Quantification of Asbestos in Soil* (2017).

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

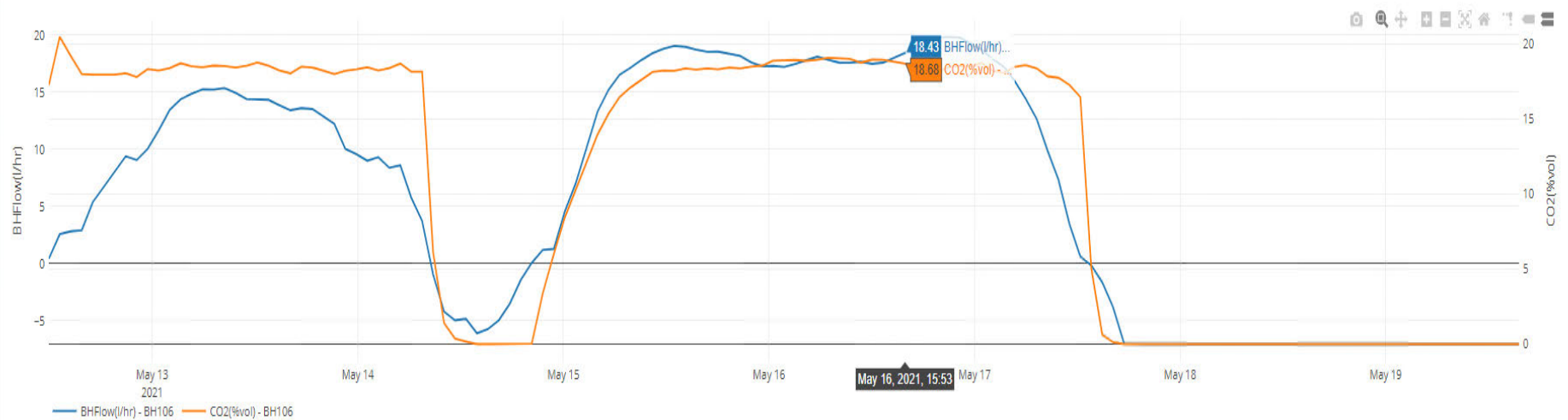
The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



Horsham Enterprise Park

Time Series

Wells (1)



APPENDIX F – GAC SCREENING TABLES

PC241 Monitors

Soil Analytical Results and Human Health QRA - Residential with Homegrown Produce

2

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* Assuming 0.5% DOM for organic compounds
H - Soil Organic Matter = Total Organic Carbon x 1.72

NAD = No asbestos detected
PSG = Placed Ground
n/s = not tested
n.s. = not soluble
n.v. = no published value available

P2441 Novartis																					
Soil Analytical Results and Human Health QRA - Residential with Homegrown Produce																					
										NOTES											
										Sample Location:	TT207	TT208	TT206	TT205	TP204	TP203	TT214	TT212	TT210	TT209	TT211
										Depth (m):	1	0.5	0.75	1.1	2.8	1.4	0.4	1.4	1.4	1.2	1.8
										Matrix:											
					N	Av	Min	Max		Date Sampled:											
										Source											
Determinand	Units	LOD	Screening Value*																		
Miscellaneous																					
pH	pH units	0.1	n.v.							n.a.				9.2							
Total Organic Carbon	%	0.1	n.v.							n.a.				1.4							
Soil Organic Matter (calculated)**	%	-	n.v.							n.a.											
Metals																					
Arsenic	mg/kg	2	37	1	7.40	7.4	7.4		C4SL					7.4							
Cadmium	mg/kg	0.1	22	1	0.50	0.5	0.5		C4SL					<0.5							
Chromium	mg/kg	0.5	910	1	30.10	30.1	30.1		S4UL					30.1							
Chromium VI	mg/kg	1	21	1	0.80	0.8	0.8		C4SL					<0.8							
Copper	mg/kg	2	2,400	1	116.00	116	116		S4UL					116							
Lead	mg/kg	2	200	1	92.20	92.2	92.2		C4SL					92.2							
Mercury	mg/kg	1	40	1	0.50	0.5	0.5		S4UL					<0.5							
Nickel	mg/kg	0.5	130	1	20.00	20	20		S4UL					20							
Selenium	mg/kg	3	250	1	1.00	1	1		S4UL					<1							
Zinc	mg/kg	2	3,700	1	140.00	140	140		S4UL					140							
Asbestos																					
Asbestos Identification	-	-	Presence							n.a.				NAD							
Asbestos Quantification	%	0.001	Presence							n.a.											
Phenols																					
Phenol	mg/kg	1		2	1.00	1	1							<1	<1						
M,Pcresol	mg/kg	1		2	1.00	1	1							<1	<1						
Ocreso	mg/kg	1		2	1.00	1	1							<1	<1						
3,4-Dimethylphenol	mg/kg	1		2	1.00	1	1							<1	<1						
2,3-Dimethylphenol	mg/kg	1		2	1.00	1	1							<1	<1						
2,3,5-Trimethylphenol	mg/kg	1		2	1.00	1	1							<1	<1						
Total monohydric phenol	mg/kg	5		2	5.00	5	5							<5	<5						
Polycyclic Aromatic Hydrocarbons (USEPA 16)																					
Benzo(a)pyrene	mg/kg	0.1	5.0	1	0.10	0.1	0.1		C4SL					<0.1							
Naphthalene	mg/kg	0.1	5.3	1	0.10	0.1	0.1		S4UL					<0.1							
Acenaphthylene	mg/kg	0.1	n.v.						n.a.					<0.1							
Acenaphthene	mg/kg	0.1	n.v.						n.a.					<0.1							
Fluorene	mg/kg	0.1	n.v.						n.a.					<0.1							
Phenanthrene	mg/kg	0.1	n.v.						n.a.					<0.1							
Anthracene	mg/kg	0.1	n.v.						n.a.					<0.1							
Fluoranthene	mg/kg	0.1	n.v.						n.a.					<0.1							
Pyrene	mg/kg	0.1	n.v.						n.a.					<0.1							
Benzo(a)anthracene	mg/kg	0.1	n.v.						n.a.					<0.1							
Chrysene	mg/kg	0.1	n.v.						n.a.					<0.1							
Benzo(b)fluoranthene	mg/kg	0.1	n.v.						n.a.					<0.1							
Benzo(k)fluoranthene	mg/kg	0.1	n.v.						n.a.					<0.1							
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	n.v.						n.a.					<0.1							
Dibenzo(ah)anthracene	mg/kg	0.1	n.v.						n.a.					<0.1							
Benzo(ghi)perylene	mg/kg	0.1	n.v.						n.a.					<0.1							
Total PAH (16)	mg/kg	0.1	n.v.						n.a.					<0.4							
Petroleum Hydrocarbons																					
Benzene	µg/kg	0.01	410	11	10.00	10	10		C4SL	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	µg/kg	0.01	290,000	11	10.00	10	10		S4UL	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	µg/kg	0.01	110,000	11	12.47	10	37.2		S4UL	<10	<10	<10	<10	<10	37.2	<10	<10	<10	<10	<10	<10
Xylenes	µg/kg	0.01	130,000	11	33.45	10	268		S4UL	<10	<10	<10	<10	<10	268	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	µg/kg	0.01	n.v.	11	10.00	10	10		n.a.	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C5-C6 Aliphatic	mg/kg	0.01	78	11	0.01	0.01	0.01		S4UL	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
>C6-C8 Aliphatic	mg/kg	0.01	230	11	0.01	0.01	0.01		S4UL	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
>C8-C10 Aliphatic	mg/kg	1	65	11	1.03	1	1.3		S4UL	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1
>C10-C12 Aliphatic	mg/kg	1	330	11	1.00	1	1		S4UL	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
>C12-C16 Aliphatic	mg/kg	1	2,400	11	1.16	1	2.7		S4UL	<1	<1	<1	<1	<1	2.7	1.1	<1	<1	<1	<1	<1
>C16-C21 Aliphatic	mg/kg	1		11	1.88	1	6.7		S4UL	<1	1.2	<1	<1	<1	6.7	4.1	<1	<1	<1	1.7	<1
>C21-C35 Aliphatic	mg/kg	1	92,000	11	35.29	1	214		S4UL	<1	<1	6.8	<1	<1	214	61.4	5.6	4.8	<1	83.7	7.9
>C35-C40 Aliphatic	mg/kg	1	92,000	11	21.23	1	186		S4UL	<1	<1	<1	<1	<1	186	37.4	<1	1	<1	2.1	<1
>C5-C7 Aromatic	mg/kg	0.01	140	11	0.01	0.01	0.01		S4UL	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
>C7-C8 Aromatic	mg/kg	0.01	290	11	0.01	0.01	0.01		S4UL	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
>C8-C10 Aromatic	mg/kg	1	83	11	1.00	1	1		S4UL	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
>C10-C12 Aromatic	mg/kg	1	180	11	1.00	1	1		S4UL	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
>C12-C16 Aromatic	mg/kg	1	330	11	1.05	1	1.6		S4UL	<1	<1	<1	<1	<1	1.6	<1	<1	<1	<1	<1	<1
>C16-C21 Aromatic	mg/kg	1	540	11	1.51	1	4.8		S4UL	<1	<1	<1	<1	<1	4.8	2.8	<1	<1	<1	<1	<1
>C21-C35 Aromatic	mg/kg	1	1,500	11	26.55	1	198		S4UL	<1	<1	1.7	<1	<1	198	42.5	7.6	3.3	<1	28.8	6.1
>C35-C40 Aromatic	mg/kg	1	1,500	11	23.41	1	220		S4UL	<1	<1	<1	<1	<1	220	18.5	2.5	<1	<1	7.1	3.4
Total (>C5-C40) Ali/Aro	mg/kg	1	n.v.	11	107.36	1	833		-	<1	1.2	8.5	<1	<1	833	169	15.7	9.2	<1	124	17.4

* Assuming 2.5% SOM for organic compounds
 ** - Soil Organic Matter = Total Organic Carbon x 1.72

NAD = No asbestos detected
 MG = Made Ground
 - = not tested
 n.a = not applicable
 n.v = no published value available
 NIV = Netherlands Intervention Value

LP2441 - Horsham Enterprise Park - Groundwater Results

			Sample Location:	Sample Location:	LWS1	LWS2	LWS3	LWS4	LWS5	LWS6	LWS7	LWS8	LWS9	LWS10	LWS11			
			Depth (m):	Depth (m):	Offsite upgradient	Chamber south of SW2					Eastern Railway embankment	Ditch	Collyers Playing Field South	South of skate park	Chamber north of Horsham pond	Horsham Pond		
			Date Sampled:	Date Sampled:	26-May-21	24-Jun-21	26-May-21	26-May-21	26-May-21	26-May-21	24-Jun-21	24-Jun-21	01-Jul-21	24-Jun-21	24-Jun-21			
			Screening Values	Screening Values														
Determinand	Units	LOD	Human health GW vapour	Source	Surface Water	Source	max											
Miscellaneous																		
pH	pH units	0.1			6 to 9	EQS	11.30	7.7	9.4	10.1	11.3	8.9	7.4	6.9	7.5	7.2	6.6	7.1
Metals																		
Arsenic	µg/l	5			50	EQS	6.00	<5	6	<5	<5	<5	<5	<5	<5	<5	<5	<5
Calcium							102000.00		n/t				102000	n/t		n/t		61000
Cadmium	µg/l	1			0.25	EQS	0.00	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	µg/l	5			3.4	EQS	40.00	11	31	40	23	<5	<5	<5	<5	<5	<5	<5
Hexavalent chromium	µg/l	100					0.00	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Copper	µg/l	5			47	EQS	11.00	8	5	9	11	<5	<5	2.7	3.1	2.5	2.4	<0.5
Mercury	µg/l	0.1			0.07	EQS	0.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	µg/l	5			25.37	EQS	5.00	<5	<5	<5	<5	<5	5	<5	<5	<5	<5	<5
Lead	µg/l	1			1.2	EQS	0.00	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Selenium	µg/l	5					0.00	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Zinc	µg/l	5			39	EQS	46.00	10	<5	<5	<5	12	46	12	7	8	14	5
Miscellaneous																		
Dissolved organic carbon	mg/l	1.5					12.00	6.6	9.4	3.8	6.9	3	<1.5	12	9.9	6.9	7.6	11
Phenols																		
Phenol	ug/l	1			7.7	EQS	0.00	<1		<1	<1	<1	<1					
M,P-cresol	ug/l	1						<1		<1	<1	<1	<1					
O-creso	ug/l	1						<1		<1	<1	<1	<1					
3,4-Dimethylphenol	ug/l	1						<1		<1	<1	<1	<1					
2,3-Dimethylphenol	ug/l	1						<1		<1	<1	<1	<1					
2,3,5-Trimethylphenol	ug/l	1						<1		<1	<1	<1	<1					
Total monohydric phenol	ug/l	1			7.7	EQS		<1		<1	<1	<1	<1					
Polycyclic Aromatic Hydrocarbons (USEPA 16)																		
Naphthalene	ug/l	0.01	220	SOBRA	2	EQS	0.13	0.01	0.09	0.04	0.06	<0.01	<0.01	0.02	<0.01	0.13	0.02	0.13
Acenaphthylene	ug/l	0.01	220000	SOBRA			0.23	0.05	0.23	0.03	0.14	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.23
Acenaphthene	ug/l	0.01	170000	SOBRA			3.00	<0.01	0.19	3	0.07	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.11
Fluorene	ug/l	0.01	210000	SOBRA			0.17	0.01	0.17	0.02	0.04	0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.14
Phenanthrene	ug/l	0.01					1.87	0.11	1.87	0.15	0.39	0.03	<0.01	0.03	0.02	0.02	0.03	1.36
Anthracene	ug/l	0.01					0.56	0.06	0.56	0.05	0.19	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.47
Fluoranthene	ug/l	0.01					5.71	0.52	5.71	0.43	1.59	0.03	<0.01	0.07	0.01	0.03	0.01	5.15
Pyrene	ug/l	0.01					5.03	0.5	5.03	0.39	1.6	0.03	<0.01	0.07	0.02	0.03	<0.01	4.69
Benzo(a)anthracene	ug/l	0.01					2.81	0.29	2.78	0.18	0.87	0.01	<0.01	0.02	<0.01	0.01	<0.01	2.81
Chrysene	ug/l	0.01					3.18	0.38	3.13	0.24	0.98	0.02	<0.01	0.04	<0.01	0.02	<0.01	3.18
Benzo(b)fluoranthene	ug/l	0.01					3.72	0.49	3.72	0.25	1.35	0.02	<0.01	0.03	<0.01	0.01	<0.01	3.17
Benzo(k)fluoranthene	ug/l	0.01					3.19	0.49	3.19	0.23	1.19	0.02	<0.01	0.04	<0.01	0.01	<0.01	3.14
Benzo(a)pyrene	ug/l	0.01			0.00017	EQS	3.02	0.44	3.02	0.22	1.36	0.02	<0.01	0.02	<0.01	<0.01	<0.01	2.58
Indeno(1,2,3-cd)pyrene	ug/l	0.01					2.49	0.35	2.49	0.15	0.94	0.01	<0.01	0.02	<0.01	<0.01	<0.01	2.13
Dibenzo(ah)anthracene	ug/l	0.01					0.78	0.08	0.78	0.05	0.23	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.72
Benzo(ghi)perylene	ug/l	0.01					2.89	0.42	2.89	0.19	1.17	0.02	<0.01	0.02	<0.01	<0.01	<0.01	2.54
PAH (total)	ug/l	0.01					35.80	4.21	35.8	2.65	12.2	0.26	0.08	0.4	0.09	0.34	0.1	32.6
Petroleum Hydrocarbons																		
Benzene	ug/l	1	210		10	EQS	0.00	<1	<1	<1	<1	<1	<1	<1	<1	<1.00	<1	<1
Toluene	ug/l	1	230000		74	EQS	1.31	<1	<1	<1	<1	<1	<1	<1	<1	1.31	<1	<1
Ethylbenzene	ug/l	1	10000		300	EQS	0.00	<1	<1	<1	<1	<1	<1	<1	<1	<1.00	<1	<1
Xylenes	ug/l	1	9500		30	EQS	1.36	<1	<1	<1	<1	<1	<1	<1	<1	1.36	<1	<1
Methyl tert-Butyl Ether	ug/l	1					0.00	<1	<1	<1	<1	<1	<1	<1	<1	<1.00	<1	<1
>C5-C6 Aliphatic	ug/l	1	1900				0.00	<1	<1.0	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0
>C6-C8 Aliphatic	ug/l	1	1500				0.00	<1	<1.0	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0
>C8-C10 Aliphatic	ug/l	5	57				0.00	<5	<5.0	<5	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	<5.0
>C10-C12 Aliphatic	ug/l	5	37				38.90	<5	12.2	<5	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	38.9
>C12-C16 Aliphatic	ug/l	5					172.00	<5	31.3	<5	<5	<5	<5	8.2	<5.0	<5.0	<5.0	172
>C16-C21 Aliphatic	ug/l	5					235.00	<5	56.8	<5	<5	<5	<5	<5.0	5.1	<5.0	<5.0	235
>C21-C35 Aliphatic	ug/l	5					712.00	<5	481	<5	<5	<5	<5	<5.0	87.7	<5.0	15.6	712
>C35-C40 Aliphatic	ug/l	5					124.00	<5	55.2	<5	<5	<5	<5	<5.0	13.2	<5.0	<5.0	124
Total (>C5-C40) Aliphatic	ug/l	5					1280.00	<5	636	<5	<5	<5	<5	8.2	106	<5.0	15.6	1280
>C5-C7 Aromatic	ug/l	1	210,000				0.00	<1	<1.0	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0
>C7-C8 Aromatic	ug/l	1	220,000				1.30	<1	<1.0	<1	<1	<1	<1	<1.0	1.3	<1.0	<1.0	<1.0
>C8-C10 Aromatic	ug/l	5	1,900				0.00	<5	<5.0	<5	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	<5.0
>C10-C12 Aromatic	ug/l	5	6,800				23.90	<5	13.7	<5	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	23.9
>C12-C16 Aromatic	ug/l	5	39000				126.00	<5	28.1	<5	<5	<5	<5	7.1	<5.0	<5.0	<5.0	126
>C16-C21 Aromatic	ug/l	5					228.00	<5	62.4	<5	5.7	<5	<5	<5.0	<5.0	5.1	<5.0	228
>C21-C35 Aromatic	ug/l	5					765.00	29.6	656	<5	81.8	<5	<5	<5.0	<5.0	<5.0	<5.0	765
>C35-C40 Aromatic	ug/l	5					224.00	<5	199	<5	40.6	<5	<5	<5.0	<5.0	<5.0	<5.0	224
Total (>C5-C40) Aromatic	ug/l	5					1370.00	29.6	958	<5	128	<5	<5	7.1	<5.0	6.4	<5.0	1370
Total (>C5-C40) Ali/Aro	ug/l	5					2650.00	29.6	1590	<5	128	<5	<5	15.3	106	6.4	15.6	2650

APPENDIX G – MONITORING RESULTS

Continuous Gas Monitoring Record								
Date	08/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	-2					
Site	Novartis	Ambient Pressure	1002					
WS106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	H ² S (ppm)	
		00:00	0.0	0.0	0.0	16.0	0	0
		00:15	0.0	0.0	0.0	16.0	0	0
		00:30	0.0	0.0	0.0	16.2	0	0
VOC peak (ppm)	0	01:00		0.0	0.0	21.2	0	0
VOC steady (ppm)	0	01:30		0.1	0.9	21.2	0	0
		02:00		0.1	0.9	21.2	0	0
Borehole Depth (mbgl)	1.85	02:30		0.1	0.9	21.2	0	0
		03:00		0.1	0.9	21.2	0	0
Water level (mbgl)	1.4	03:30		0.1	0.9	21.2	0	0
		04:00		0.1	0.9	21.2	0	0
Borehole Pressure (mb)	1009	04:30		0.1	0.9	21.2	0	0
		05:00		0.1	0.9	21.2	0	0
WS108 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	H ² S (ppm)	
		00:00	-5.1	0.0	0.0	20.6	0	0
		00:15	-4.6	0.0	0.9	20.5	0	0
		00:30	-2.8	0.0	0.9	20.2	11	0
VOC peak (ppm)	1.8	01:00	-1.7	0.1	0.9	20.0	11	0
VOC steady (ppm)	1.7	01:30	-0.6	0.1	0.9	20.0	10	0
		02:00	0.0	0.1	0.9	20.0	10	0
Borehole Depth (mbgl)	2.9	02:30		0.1	0.9	20.0	9	0
		03:00		0.1	0.9	20.0	9	0
Water level (mbgl)	0.85	03:30		0.1	0.9	20.0	9	0
		04:00		0.1	0.9	20.0	9	0
Borehole Pressure (mb)	997	04:30		0.1	0.9	20.0	9	0
		05:00		0.1	0.9	20.0	9	0

Continuous Gas Monitoring Record								
Date	08/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	-2					
Site	Novartis	Ambient Pressure	1002					
WS111 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.0	16.2	0	0
		00:15	0.4	0.0	0.0	15.3	0	0
		00:30	0.2	0.0	0.0	15.0	0	0
VOC peak (ppm)	0.8	01:00	0.0	0.0	0.0	14.9	0	0
VOC steady (ppm)	0.7	01:30		0.0	0.0	14.9	0	0
		02:00		0.0	0.0	14.9	0	0
Borehole Depth (mbgl)	0.9	02:30		0.0	0.0	14.8	0	0
		03:00		0.0	0.0	14.8	0	0
Water level (mbgl)	0.7	03:30		0.0	0.0	14.8	0	0
		04:00		0.0	0.0	14.8	0	0
Borehole Pressure (mb)	1001	04:30		0.0	0.0	14.8	0	0
		05:00		0.0	0.0	14.8	0	0
WS113 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.4	0	0
		00:15	0.8	0.0	0.0	21.0	2	0
		00:30	0.2	0.1	0.0	20.6	3	0
VOC peak (ppm)	3.1	01:00	0.0	0.0	0.0	20.5	2	0
VOC steady (ppm)	2.2	01:30		0.0	0.0	20.5	3	0
		02:00		0.0	0.0	20.5	3	0
Borehole Depth (mbgl)	1.95	02:30		0.0	0.0	20.5	2	0
		03:00		0.0	0.0	20.5	3	0
Water level (mbgl)	0.95	03:30		0.0	0.0	20.5	2	0
		04:00		0.0	0.0	20.5	2	0
Borehole Pressure (mb)	1000	04:30		0.1	0.0	20.5	3	0
		05:00		0.1	0.0	20.5	0	0

Continuous Gas Monitoring Record								
Date	08/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	-2					
Site	Novartis	Ambient Pressure	1002					
WS115 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	17.7	0.0	0.0	21.0	0	0
		00:15	15.4	0.0	0.0	16.3	0	0
		00:30	13.6	0.0	0.0	16.3	0	0
VOC peak (ppm)	0.8	01:00	10.5	0.0	0.0	16.2	0	0
VOC steady (ppm)	0.7	01:30	8.2	0.0	0.0	16.2	0	0
		02:00	7.0	0.0	0.0	16.2	0	0
Borehole Depth (mbgl)	1.9	02:30	5.1	0.0	0.0	16.3	0	0
		03:00	3.2	0.0	0.0	16.3	0	0
Water level (mbgl)	0.7	03:30	1.5	0.0	0.0	16.3	0	0
		04:00	0.0	0.0	0.0	16.3	0	0
Borehole Pressure (mb)	1001	04:30	0.0	0.0	0.0	16.3	0	0
		05:00		0.0	0.0	16.3	0	0
WS116 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	-1.1	0.0	0.0	20.1	0	0
		00:15	0.0	0.0	0.7	16.2	0	0
		00:30		0.0	0.0	16.1	0	0
VOC peak (ppm)	0.1	01:00		0.0	0.0	16.1	0	0
VOC steady (ppm)	0	01:30		0.0	0.0	16.1	0	0
		02:00		0.0	0.0	16.1	0	0
Borehole Depth (mbgl)	1.55	02:30		0.0	0.0	16.1	0	0
		03:00		0.0	0.0	16.1	0	0
Water level (mbgl)	0.3	03:30		0.0	0.0	16.1	0	0
		04:00		0.0	0.0	16.2	0	0
Borehole Pressure (mb)	995	04:30		0.0	0.0	16.2	0	0
		05:00		0.0	0.0	16.2	0	0

Continuous Gas Monitoring Record								
Date	08/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	-2					
Site	Novartis	Ambient Pressure	1002					
WS118 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	66.6	0.0	0.0	16.7	0	0
		00:15	28.3	0.0	0.1	3.0	0	0
		00:30	19.6	0.0	0.0	2.6	0	0
VOC peak (ppm)	0.8	01:00	1.5	0.0	0.0	2.6	0	0
VOC steady (ppm)	0.7	01:30	1.5	0.0	0.0	2.6	0	0
		02:00	steady	0.0	0.0	2.6	0	0
Borehole Depth (mbgl)	1.6	02:30		0.0	0.0	2.6	0	0
		03:00		0.0	0.0	2.6	0	0
Water level (mbgl)	0.5	03:30		0.0	0.0	2.6	0	0
		04:00						
Borehole Pressure (mb)	996	04:30	Water uptake - gas monitoring terminated					
		05:00						
BH101 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	0.0	0.0	0.0	16.3	0	0
		00:15	0.3	0.0	0.0	16.2	0	0
		00:30	0.1	0.0	0.0	16.2	0	0
VOC peak (ppm)	3.1	01:00	0.0	0.0	0.0	16.2	0	0
VOC steady (ppm)	2.2	01:30		0.0	0.0	16.2	0	0
		02:00		0.0	0.0	16.2	0	0
Borehole Depth (mbgl)	1.95	02:30		0.0	0.0	16.3	0	0
		03:00		0.0	0.0	16.2	0	0
Water level (mbgl)	0.95	03:30		0.0	0.0	16.2	0	0
		04:00		0.0	0.0	16.2	0	0
Borehole Pressure (mb)	1000	04:30						
		05:00						
BH103 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	-0.1	0.0	0.0	16.0	0	0
		00:15	0.0	0.0	0.0	16.0	0	0
		00:30	0.0	0.0	0.0	16.2	0	0
VOC peak (ppm)	1.2	01:00	0.0	0.0	0.0	16.2	0	0
VOC steady (ppm)	1.1	01:30		0.1	0.1	21.2	0	0
		02:00		0.1	0.1	21.2	0	0
Borehole Depth (mbgl)	2.2	02:30		0.1	0.1	21.2	0	0
		03:00		0.1	0.1	21.2	0	0
Water level (mbgl)	1.05	03:30		0.1	0.1	21.2	0	0
		04:00		0.1	0.1	21.2	0	0
Borehole Pressure (mb)	996	04:30		0.1	0.1	21.2	0	0
		05:00		0.1	0.1	21.2	0	0

Continuous Gas Monitoring Record								
Date	22/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	10					
Site	Novartis	Ambient Pressure	1014					
WS105 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	-2.7	0.1	0.1	20.0	0	0
		00:15	-2.6	0.1	0.2	19.7	3	0
		00:30	-1.6	0.1	6.8	18.7	3	0
VOC peak (ppm)	3.9	01:00	-0.6	0.1	7.9	18.6	3	0
VOC steady (ppm)	3.5	01:30	0.0	0.1	8.5	18.5	4	0
		02:00		0.1	8.5	18.3	4	0
Borehole Depth (mbgl)	1.95	02:30		0.1	8.5	18.3	4	0
		03:00		0.1	8.6	18.3	3	0
Water level (mbgl)	0.9	03:30		0.1	7.9	18.4	2	0
		04:00		0.1	7.7	18.5	2	0
Borehole Pressure (mb)	1014	04:30		0.1	7.5	18.5	1	0
		05:00		0.1	7.5	18.5	1	0
WS106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	19.5	0	0
		00:15	-5.7	0.1	0.0	19.9	0	0
		00:30	-2.5	0.5	0.5	17.5	0	0
VOC peak (ppm)	1.2	01:00	-0.2	0.5	0.6	16.5	0	0
VOC steady (ppm)	1.2	01:30	0.0	0.5	0.6	16.3	0	0
		02:00		0.5	0.6	16.3	0	0
Borehole Depth (mbgl)	1.8	02:30		0.5	0.6	16.2	0	0
		03:00		0.5	0.6	16.2	0	0
Water level (mbgl)	1.4	03:30		0.5	0.6	16.2	0	0
		04:00		0.5	0.6	16.2	0	0
Borehole Pressure (mb)	1014	04:30		0.5	0.6	16.2	0	0
		05:00		0.5	0.6	16.2	0	0
WS108 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.3	0	0
		00:15	0.0	0.1	0.9	20.5	0	0
		00:30	0.0	0.1	1.4	19.7	1	0
VOC peak (ppm)	1.5	01:00		0.1	1.5	19.7	1	0
VOC steady (ppm)	1.4	01:30		0.1	1.5	19.7	1	0
		02:00		0.1	1.3	19.8	0	0
Borehole Depth (mbgl)	2.9	02:30		0.1	1.2	19.9	0	0
		03:00		0.1	1.2	20.0	0	0
Water level (mbgl)	0.9	03:30		0.1	1.2	20.0	0	0
		04:00		0.1	1.2	20.0	0	0
Borehole Pressure (mb)	1014	04:30		0.1	1.1	20.1	0	0
		05:00		0.1	1.0	20.1	0	0

Continuous Gas Monitoring Record								
Date	22/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	10					
Site	Novartis	Ambient Pressure	1014					
WS109 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.1	21.1	0	0
VOC peak (ppm) 4.5		00:15	0.0	0.2	0.1	21.1	0	0
		00:30		0.2	0.2	20.4	0	0
VOC steady (ppm) 4.5		01:00		0.2	0.2	20.4	0	0
		01:30		0.2	0.2	20.4	0	0
Borehole Depth (mbgl) 2.85		02:00		0.2	0.2	20.4	0	0
		02:30		0.3	0.2	20.4	0	0
Water level (mbgl) 1.1		03:00		0.3	0.2	20.4	0	0
		03:30		0.3	0.2	20.4	0	0
Borehole Pressure (mb) 1013		04:00		0.3	0.2	20.4	0	0
		04:30		0.3	0.1	20.4	0	0
		05:00		0.3	0.1	20.4	0	0
WS111 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.1	21.1	0	0
VOC peak (ppm) 0.6		00:15	-0.1	0.0	0.0	21.0	0	0
		00:30	-0.1	0.0	0.0	20.5	0	0
VOC steady (ppm) 0.5		01:00	0.0	0.0	0.0	20.4	0	0
		01:30		0.0	0.0	20.4	0	0
Borehole Depth (mbgl) 1.15		02:00		0.0	0.0	20.4	0	0
		02:30		0.1	0.0	20.4	0	0
Water level (mbgl) 1.1		03:00		0.1	0.0	20.4	0	0
		03:30		0.1	0.0	20.3	0	0
Borehole Pressure (mb) 1013		04:00		0.1	0.0	20.3	0	0
		04:30		0.1	0.0	20.3	0	0
		05:00		0.1	0.0	20.3	0	0
WS113 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.3	0	0
VOC peak (ppm) 4.8		00:15	0.0	0.1	0.0	21.2	0.0	0
		00:30	0.0	0.1	0.0	20.9	0.0	0
VOC steady (ppm) 4.7		01:00		0.1	0.0	20.8	0.0	0
		01:30		0.2	0.0	20.8	0.0	0
Borehole Depth (mbgl) 1.9		02:00		0.2	0.0	20.8	0.0	0
		02:30		0.2	0.0	20.8	0.0	0
Water level (mbgl) 1.25		03:00		0.2	0.0	20.9	0.0	0
		03:30		0.2	0.0	20.9	0.0	0
Borehole Pressure (mb) 1013		04:00		0.2	0.0	20.9	0.0	0
		04:30		0.2	0.0	20.9	0.0	0
		05:00		0.2	0.0	20.9	0	0

Continuous Gas Monitoring Record								
Date	22/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	10					
Site	Novartis	Ambient Pressure	1014					
WS115 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.0	21.2	0	0
		00:15	0.0	0.2	0.0	21.2	0	0
VOC peak (ppm)		00:30	0.0					
VOC steady (ppm)		01:00			Analox fan cut out due to blockage or shallow water within borehole			
Not Measured		01:30						
Not Measured		02:00						
Borehole Depth (mbgl)		02:30						
1.9		03:00						
Water level (mbgl)		03:30						
0.7		04:00						
Borehole Pressure (mb)		04:30						
1013		05:00						
WS116 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.2	0	0
		00:15	-0.1	0.1	0.0	21.2	0	0
VOC peak (ppm)		00:30	0.0	0.1	0.0	21.1	0	0
0.6		01:00		0.2	0.0	21.1	0	0
VOC steady (ppm)		01:30		0.2	0.0	21.1	0	0
0.5		02:00		0.2	0.0	21.1	0	0
Borehole Depth (mbgl)		02:30		0.2	0.0	21.1	0	0
1.5		03:00						
Water level (mbgl)		03:30			Gas monitoring terminated due to the uptake of water to avoid equipment damage			
0.45		04:00						
Borehole Pressure (mb)		04:30						
1013		05:00						
WS118 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.2	0	0
		00:15	0.0	0.1	1.7	20.9	0	0
VOC peak (ppm)		00:30	0.0	0.1	1.5	20.8	0	0
1.2		01:00		0.1	1.3	20.8	0	0
VOC steady (ppm)		01:30		0.1	1.0	20.9	0	0
1.1		02:00		0.1	0.7	21.0	0	0
Borehole Depth (mbgl)		02:30		0.1	0.7	21.1	0	0
1.7		03:00		0.1	0.5	21.1	0	0
Water level (mbgl)		03:30		0.1	0.5	21.2	0	0
0.7		04:00		0.1	0.5	21.2	0	0
Borehole Pressure (mb)		04:30		0.1	0.4	21.2	0	0
1012		05:00		0.1	0.4	21.2	0	0

Continuous Gas Monitoring Record								
Date	22/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	10					
Site	Novartis	Ambient Pressure	1014					
BH101 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.1	21.0	0	0
		00:15	0.0	0.2	0.0	21.0	0	0
		00:30	0.0	0.2	0.0	21.1	0	0
VOC peak (ppm)	0.4	01:00		0.2	0.0	21.2	0	0
VOC steady (ppm)	0.3	01:30		0.2	0.0	21.2	0	0
		02:00		0.2	0.0	21.2	0	0
Borehole Depth (mbgl)	1.9	02:30		0.2	0.0	21.2	0	0
		03:00		0.2	0.0	21.2	0	0
Water level (mbgl)	1.2	03:30		0.2	0.0	21.3	0	0
		04:00		0.2	0.0	21.3	0	0
Borehole Pressure (mb)	1013	04:30		0.2	0.0	21.3	0	0
		05:00		0.2	0.0	21.3	0	0
BH103 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.1	21.0	0	0
		00:15	-0.1	0.0	0.0	21.0	0	0
		00:30	0.0	0.0	0.0	21.1	0	0
VOC peak (ppm)	1.7	01:00	0.0	0.0	0.0	21.1	0	0
VOC steady (ppm)	1.3	01:30		0.1	0.0	21.1	0	0
		02:00		0.0	0.0	21.1	0	0
Borehole Depth (mbgl)	2.15	02:30		0.0	0.0	21.2	0	0
		03:00		0.0	0.0	21.2	0	0
Water level (mbgl)	1.25	03:30		0.0	0.0	21.2	0	0
		04:00		0.0	0.0	21.2	0	0
Borehole Pressure (mb)	1013	04:30		0.0	0.0	21.2	0	0
		05:00		0.0	0.0	21.2	0	0

BH106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	-4.8	0.1	0.1	21.2	0	0
		00:15	-5.6	0.1	0.1	21.2	0	0
		00:30	-5.7	0.1	0.1	21.2	0	0
VOC peak (ppm)	0.3	01:00	-5.7	0.1	0.1	21.2	0	0
VOC steady (ppm)	0.3	01:30	-5.7	0.1	0.1	21.2	0	0
		02:00		0.1	0.1	21.2	0	0
Borehole Depth (mbgl)	20.3	02:30		0.1	0.1	21.2	0	0
		03:00		0.1	0.1	21.2	0	0
Water level (mbgl)	16.4	03:30		0.1	0.1	21.2	0	0
		04:00		0.1	0.1	21.2	0	0
Borehole Pressure (mb)	1014	04:30		0.1	0.1	21.2	0	0
		05:00		0.1	0.1	21.2	0	0