APPENDIX I

LIMITATIONS

ARUN DISTRICT COUNCIL R/93/19/DOC

1. This report and its findings should be considered in relation to the terms of reference and objectives agreed between REC and the Client.

2. For the work, reliance has been placed on publicly available data obtained from the sources identified. The information is not necessarily exhaustive and further information relevant to the site may be available from other sources. When using the information it has been assumed it is correct. No attempt has been made to verify the information.

3. This report has been produced in accordance with current UK policy and legislative requirements for land and groundwater contamination which are enforced by the local authority and the Environment Agency. Liabilities associated with land contamination are complex and requires advice from legal professionals.

4. In addition to the above REC note that when investigating, or developing, potentially contaminated land it is important to recognise that sub-surface conditions may vary spatially and also with time. The absence of certain ground, ground gas, and contamination or groundwater conditions at the positions tested is not a guarantee that such conditions do not exist anywhere across the site. Due to the presence of existing buildings and structures access could not be obtained to all areas. Additional contamination may be identified following the removal of the buildings or hard standing.

5. Site sensitivity assessments have been made based on available information at the time of writing and are ultimately for the decision of the regulatory authorities.

6. REC cannot be held responsible for any use of the report or its contents for any purpose other than that for which it was prepared. The copyright in this report and other plans and documents prepared by REC is owned by them and no such plans or documents may be reproduced, published or adapted without written consent. Complete copies of this may, however, be made and distributed by the client as is expected in dealing with matters related to its commission. Should the client pass copies of the report to other parties for information, the whole report should be copied, but no professional liability or warranties shall be extended to other parties by REC in this connection without their explicit written agreement there to by REC.

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APPENDIX II

DRAWINGS

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KEY:

N

Site boundary





0 50 100m

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recltd.co.uk

Job No. & Title:
1CO100632
Former Hares Garage, Rustington

Client:
PegasusLife

Drawn by: RH
Approved by: TC
Date: November 2018

Notes:

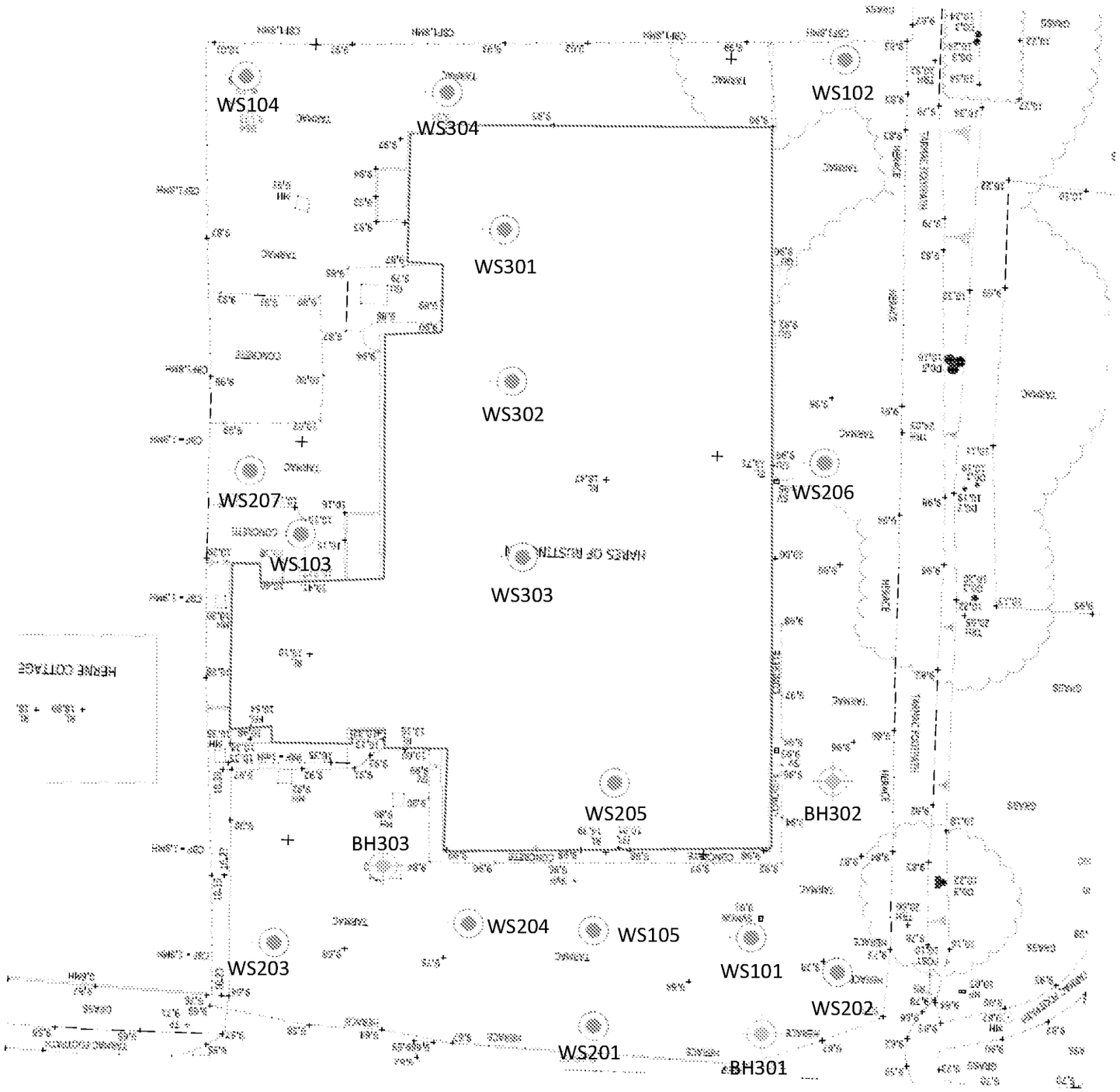
Drawing Title:
1CO100632-001
Site Location Plan

N

KEY:

Window Sample Location

Borehole Location



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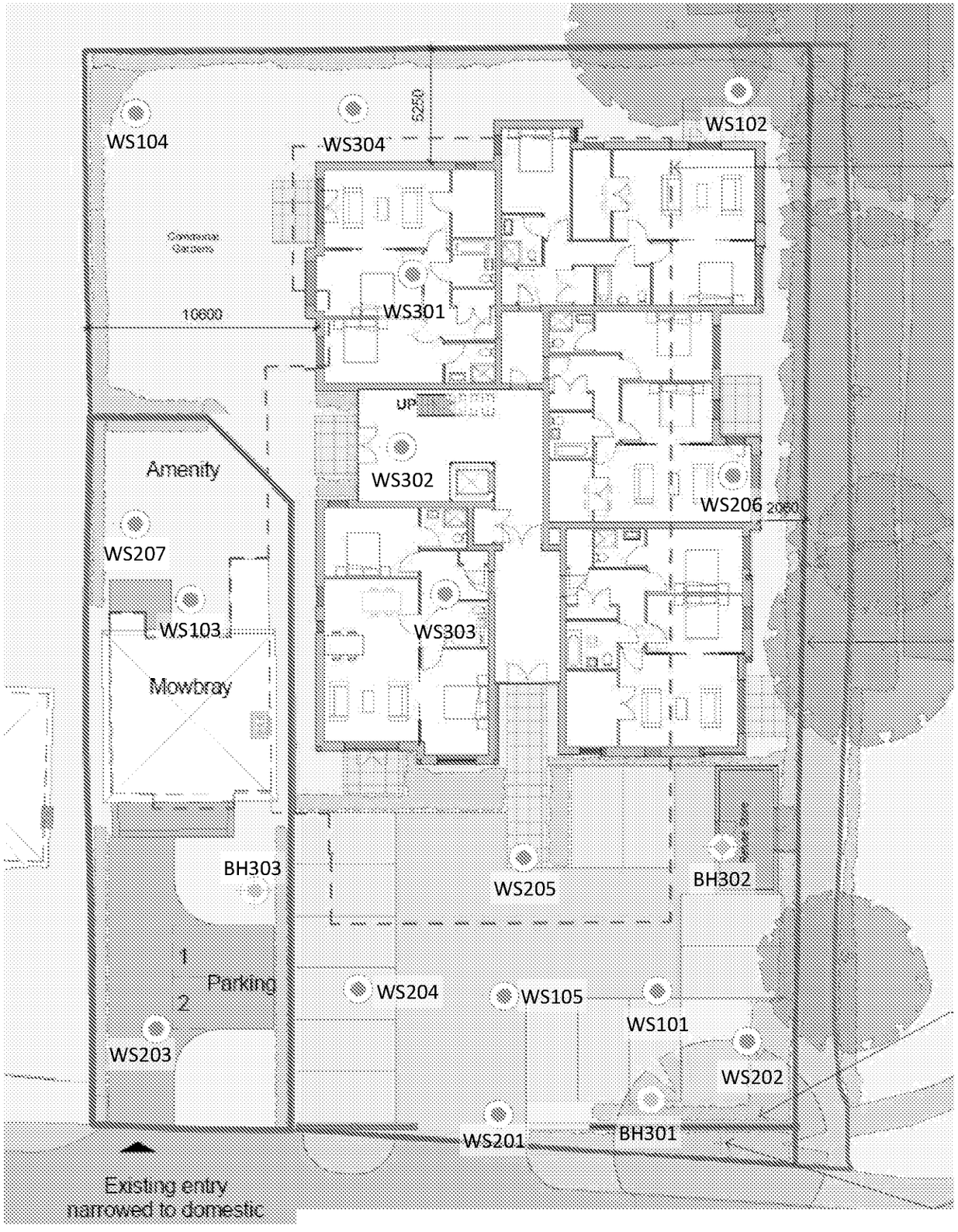
Notes:

Drawing Title:
1CO100632-002
Pre-Development Site Layout Plan

N

KEY:

- Window Sample Location
- Borehole Location



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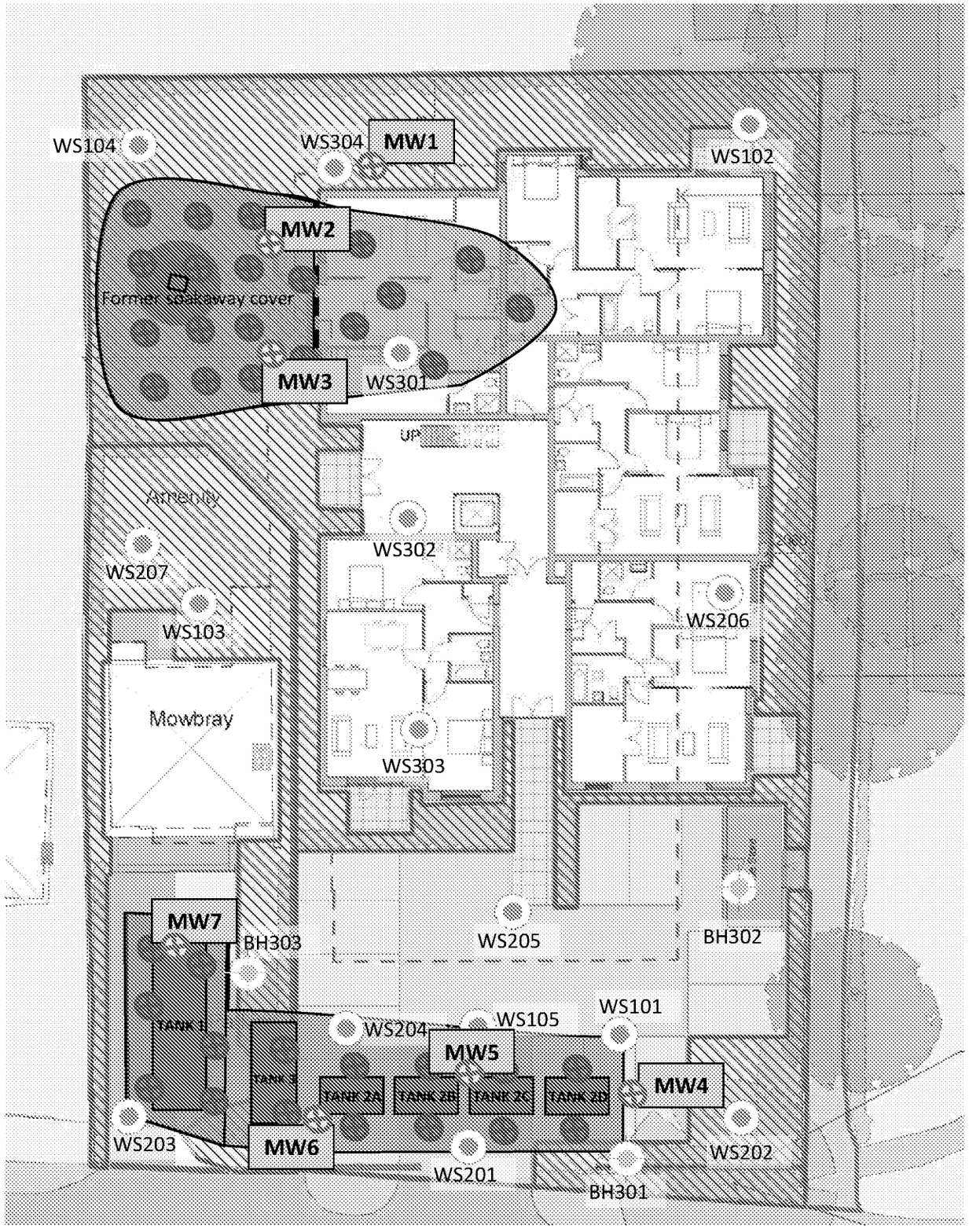
Notes:

Drawing Title:
1CO100632-003
Proposed Development Plan

N

KEY:

- Window Sample Location
- Borehole Location
- Approximate HC impacted area
- Contamination Source
- In situ remediation Injection Well
- Groundwater Monitoring Well
- Soft landscaping to be validated



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Drawn by: RH
Approved by: TC
Date: November 2018

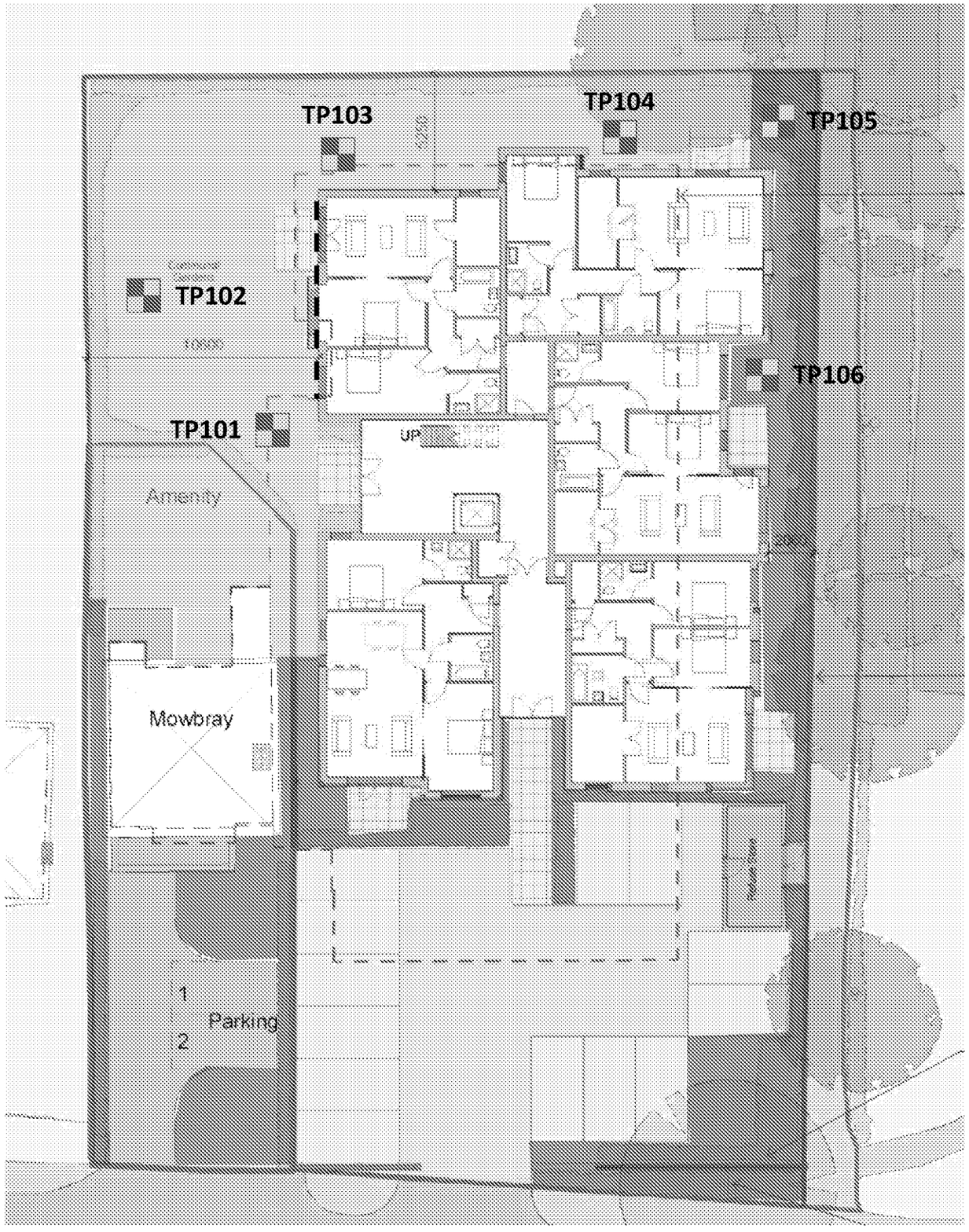
Notes:

Drawing Title:
1CO100632-004
Site Remediation Plan

N

KEY:

- Existing Soils Hand Pit
- Area requiring excavation to 600mm prior to topsoil placement
- Area suitable for topsoil over existing soils



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1CO100632
Former Hares Garage, Rustington

Client:
PegasusLife

Drawn by: HWW
Approved by: RH
Date: February 2019

Notes:
All locations are approximate. Drawing does not depict increased paving areas.

Drawing Title:
1CO102896 - 005
Soft Landscaping Requirements

APPENDIX III

REMEDIAL TARGET VALUES DERIVED DURING DQRA

Table III.1 Summary of Remedial Targets M-odelling to Compliance Point located at 50m from northern site boundary (Max Concentrations of Impacted Groundwater Recorded). Derived from Section 7.1 of the DQRA for the site.

Compound	DWS (mg/l)	Level 3 Maximum concentration in Groundwater mg/l (borehole)*	Distance to compliance point from Borehole	Predicted Concentration of Ground Water At Compliance Point (mg/l)	Exceedance of DWS at Compliance Point (y/n)
Benzene	0.001	7.5mg/l (BH301)	3m from northern boundary of site hence 53m from compliance point.	0.547	**Y**
Toluene	0.7	4.8mg/l (WS105)	8m from northern boundary of site hence 58m from compliance point.	0.238	N
Ethylbenzene	0.3	0.93mg/l (BH301)	3m from northern boundary of site hence 53m from compliance point.	0.627	**Y**
Xylenes (M/P)	0.19	1.8mg/l (BH301)	3m from northern boundary of site hence 53m from compliance point.	0.949	**Y**
Xylenes (O)	0.19	0.94mg/l (WS105)	8m from northern boundary of site hence 58m from compliance point.	0.439	**Y**
TPH: C5-7 aromatic	0.001	8.9mg/l (BH301)	3m from northern boundary of site hence 53m from compliance point.	0.649	**Y**
TPH: C6-C7 aromatic	0.001	8.0mg/l (WS105)	8m from northern boundary of site hence 58m from compliance point.	0.396	**Y**
TPH: C7-C8 aromatic	0.7	5.5mg/l (WS105)	8m from northern boundary of site hence 58m from compliance point.	0.272	N
TPH: C8-C10 aromatic	0.3	4.5mg/l (BH301)	3m from northern boundary of site hence 53m from compliance point.	3.03	**Y**

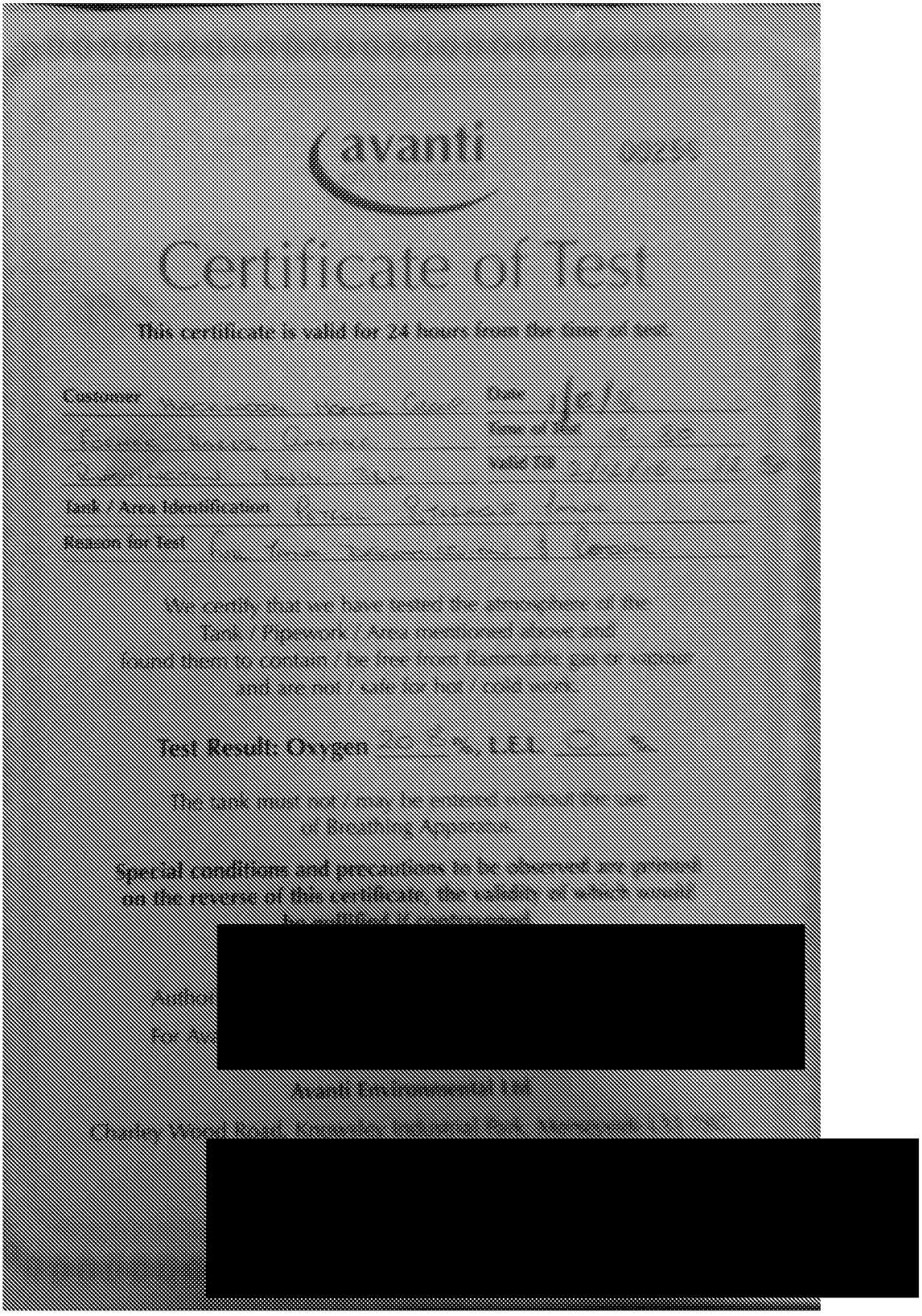
Compound	DWS (mg/l)	Level 3 Maximum concentration in Groundwater mg/l (borehole)*	Distance to compliance point from Borehole	Predicted Concentration of Ground Water At Compliance Point (mg/l)	Exceedance of DWS at Compliance Point (y/n)
TPH: C8-C10 aliphatic	0.3	0.93mg/l (WS105)	8m from northern boundary of site hence 58m from compliance point.	0.253	N
TPH: C10-C12 aromatic	0.09	1.1mg/l(WS301)	41m from northern boundary of site hence 91m from compliance point.	0.63	**Y**
TPH: C10-C12 aliphatic	0.3	0.6mg/l (WS301)	41m from northern boundary of site hence 91m from compliance point.	0.385	**Y**
TPH: C12-C16 aromatic	0.09	1.1mg/l (WS301)	41m from northern boundary of site hence 91m from compliance point.	0.763	**Y**
TPH:C16-C21 aromatic	0.09	1.6mg/l (WS301)	41m from northern boundary of site hence 91m from compliance point.	1.22	**Y**
TPH:C21-C35 aromatic	0.3	1.4mg/l (WS301)	41m from northern boundary of site hence 91m from compliance point.	1.07	**Y**
TPH:C21-C35 aliphatic	0.09	78.0mg/l (WS301)	41m from northern boundary of site hence 91m from compliance point.	59.5	**Y**
1,2,4-Trimethylbenzene	0.015	0.34mg/l (BH301)	3m from northern boundary of site hence 53m from compliance point.	0.0707	**Y**

*Assumes plume core

APPENDIX IV

PHOTOGRAPHS

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avanti

Certificate of Test

This certificate is valid for 24 hours from the time of test.

Customer

Tank / Area Identification

Reason for test

Test Result: Oxygen % L.E.L %

Special conditions and precautions to be observed are printed on the reverse of this certificate, the validity of which cannot be affected by anything appearing on this certificate.

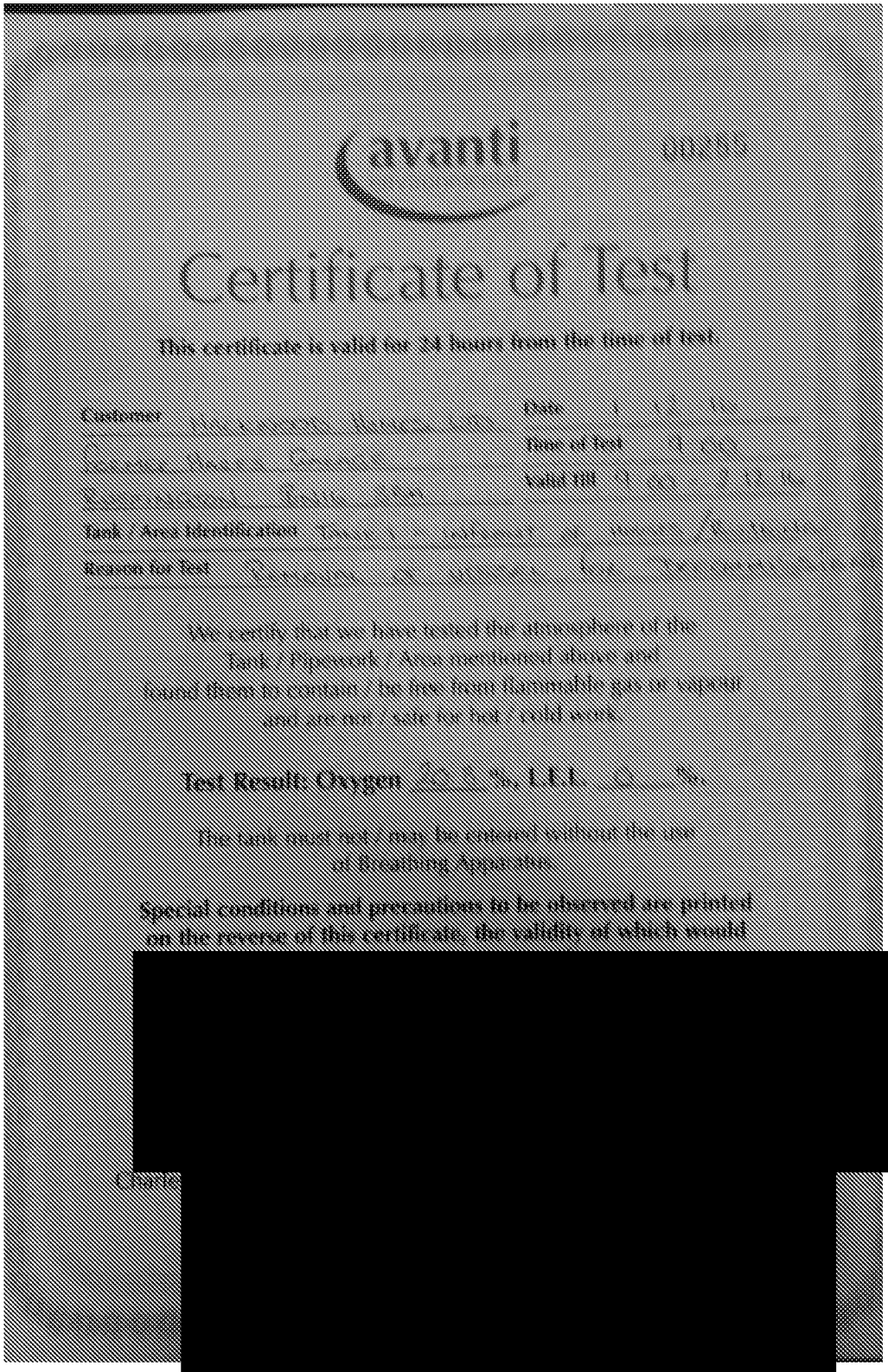
Author

For Avanti Environmental Ltd

Avanti Environmental Ltd

Charles Wood Road, Cleckheaton, West Yorkshire, BD19 4TE

Figure 1 - Copy of Gas Free Certificate for Tank Removal



avanti

Certificate of Test

This certificate is valid for 24 hours from the time of test

Customer

Date

Time of test

Valid till

Tank / Area Identification

Reason for test

We hereby certify we have tested the atmosphere of the Tank / Pipework / Area mentioned above and found them to contain no flammable gas or vapour and are not unsafe for hot / cold work.

Test Result: Oxygen %, LEL %

The tank must not / may be entered without the use of Breathing Apparatus

Special conditions and precautions to be observed are printed on the reverse of this certificate, the validity of which would

[redacted]

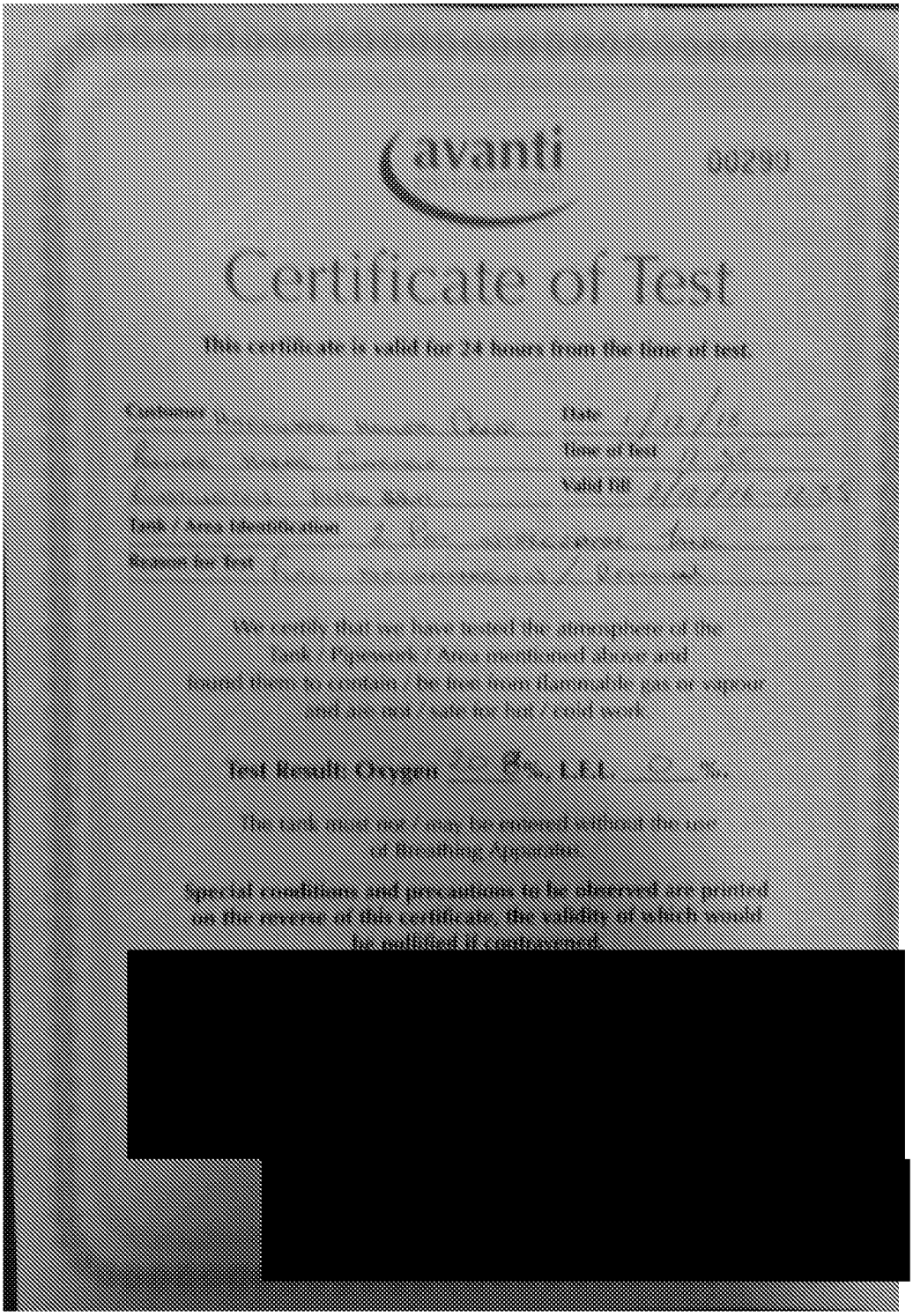


Figure 3 - Copy of Gas Free Certificate for Tank Removal



Figure 4 - Former soakaway filled with impacted material (Southern Source)



Figure 5 - Excavation to determine extent of Southern Source, based on visual evidence and PID screening

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Figure 6 - Impacted materials within excavation in Southern Source area, groundwater at circa 7.0 mbgl. This excavation was made and subsequently backfilled prior to commencement of in situ remediation.



Figure 7 - Large former fuel tank during excavation (part of Northern Source)

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Figure 8 - Former fuel tanks following gas free and removal from source location



Figure 9 - Preparation of oxygen biochem for injection works (Tor Drilling engineers, operating on behalf of McAuliffe / Geostream)

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Figure 10 - During direct injection of oxidising agent into Southern Source area

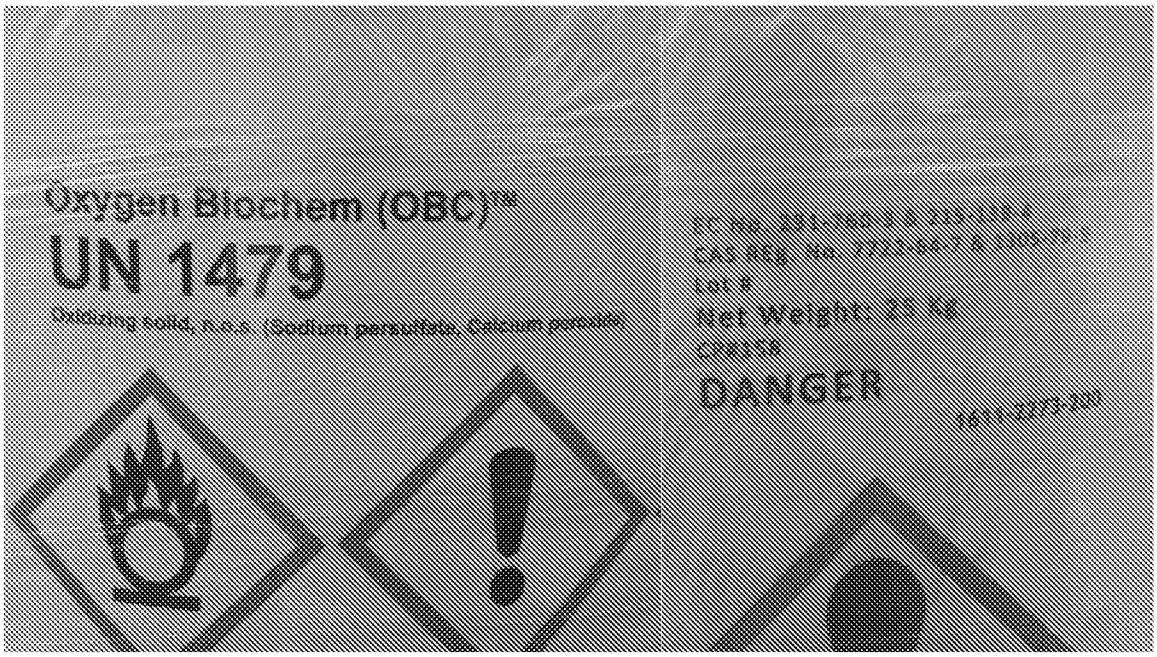


Figure 11 - Detail of oxidising agent specification as displayed on the packaging. OBC was stored in sealed 25kg tubs in a specially designated area of the site.



Figure 12 – Imported topsoil stockpile 1, sampled by REC on 05/02/2019



Figure 13 – Imported topsoil stockpile 2, sampled by REC on 20/02/2019

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Figure 14 – Imported topsoil stockpile 4, sampled by REC on 21/03/2019



Figure 15 – Imported soil placed in communal gardens in southeast corner of site. Groundwater monitoring wells remain exposed prior to setting beneath flush covers.

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Figure 16 – Area of impacted soils in west of site excavated to 600mm below finished levels prior to soil placement.



Figure 17 – Confirmation that 600mm depth has been achieved in west of site.

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Figure 18 – Imported topsoil being during placement within excavated area in west of site. Right of the image is an area which will form a public footpath outside the finished site boundary.



Figure 19 – Confirmation that 600mm has been achieved in soft landscaping areas in the north of site (photograph supplied by Hackwood Homes Ltd on 03/04/2019).

APPENDIX V

GROUND GAS MONITORING DATA

TABLE V.1 SUMMARY OF GROUND GAS AND GROUNDWATER MONITORING RESULTS

Well	Date	Flow (l/hr)		Low O_2 %v/v	Concentration CH_4		CH_4 Qhg l/hr	Concentration CO_2		CO_2 Qhg l/hr	Atmospheric Pressure / Dynamic	PID Value (ppm)	Depth to Water (mbgl)
		Peak	Steady		Peak %v/v	Steady %v/v		Peak %v/v	Steady %v/v				
MW1	15/05/17	<0.1	<0.1	19.2	<0.1	<0.1	<0.0001	0.9	0.9	0.0009	1024 / Rising	NR	3.30
	15/11/18	<0.1	<0.1	20.4	<0.1	<0.1	<0.0001	0.3	0.1	0.0003	1018 / Rising	<0.1	4.33
MW2	15/05/17	<0.1	<0.1	19.7	<0.1	<0.1	<0.0001	0.3	0.1	0.0003	1024 / Rising	NR	3.18
	15/11/18	<0.1	<0.1	20.4	<0.1	<0.1	<0.0001	0.1	0.1	0.0001	1017 / Rising	<0.1	3.93
MW3	15/05/17	<0.1	<0.1	19.5	1.4	0.1	0.0014	0.7	0.4	0.0007	1024 / Rising	NR	NR
	15/11/18	<0.1	<0.1	20.4	<0.1	<0.1	<0.0001	0.1	0.1	0.0001	1018 / Rising	<0.1	4.13
MW4	15/05/17	<0.1	<0.1	16.5	80.8	80.8	0.0808	4.0	2.3	0.0040	1024 / Rising	NR	4.37
	16/06/17	<0.1	<0.1	19.3	1.1	1.1	0.0011	0.9	0.9	0.0009	1023 / Rising	619.0	4.10
	26/06/17	<0.1	<0.1	15.5	5.7	5.7	0.0057	3.5	3.5	0.0035	1012 / Falling	NR	4.28
	10/07/17	<0.1	<0.1	11.6	7.4	7.4	0.0074	4.5	4.5	0.0045	1007 / Rising	410.4	5.32
	24/07/17	<0.1	<0.1	15.4	0.1	0.1	0.0001	2.1	2.0	0.0021	1012 / Steady	NR	4.07
	07/08/17	<0.1	<0.1	13.0	1.5	1.5	0.0015	2.1	2.1	0.0021	1022 / Falling	404.8	3.90
	21/08/17	<0.1	<0.1	15.5	<0.1	<0.1	<0.0001	2.0	2.0	0.0020	1022 / Falling	110.5	3.10
	11/09/17	<0.1	<0.1	14.3	<0.1	<0.1	<0.0001	1.8	1.8	0.0018	997 / Rising	NR	3.86
	17/01/18	<0.1	<0.1	20.0	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.0001	1007 / Rising	54.8	3.19
	15/02/18	<0.1	<0.1	19.8	<0.1	<0.1	<0.0001	0.2	0.2	0.0002	1000 / Rising	NR	2.22
	12/09/18	<0.1	0.2	20.3	<0.1	<0.1	<0.0001	0.3	0.2	0.0006	1022 / Steady	0.4	NR
	15/11/18	<0.1	<0.1	20.2	<0.1	<0.1	<0.0001	0.3	0.2	0.0003	1019 / Rising	1.4	4.10

Well	Date	Flow (l/hr)		Low O_2 %v/v	Concentration CH_4		CH_4 Qhg l/hr	Concentration CO_2		CO_2 Qhg l/hr	Atmospheric Pressure / Dynamic	PID Value (ppm)	Depth to Water (mbgl)
		Peak	Steady		Peak %v/v	Steady %v/v		Peak %v/v	Steady %v/v				
MW5	15/05/17	<0.1	<0.1	14.5	83.3	83.3	0.0833	2.0	2.0	0.0020	1023 / Rising	NR	4.00
	16/06/17	0.1	<0.1	21.7	25.8	<0.1	0.0258	2.0	<0.1	0.0020	1023 / Rising	814.0	3.14
	26/06/17	7.9	<0.1	>100†	93.6	92.0	0.0936	8.2	7.8	0.0082	1013 / Falling	NR	4.05
	10/07/17	<0.1	<0.1	>100†	89.4	89.4	0.0894	11.6	10.5	0.0116	1007 / Rising	340.3	5.24
	24/07/17	<0.1	<0.1	19.0	24.0	1.9	0.0240	3.6	0.6	0.0036	1011 / Steady	NR	4.00
	07/08/17	<0.1	<0.1	14.9	11.2	11.2	0.01490	1.6	1.6	0.0016	1012 / Falling	1588.0	3.75
	21/08/17	<0.1	<0.1	2.9	14.0	13.9	0.0140	0.5	0.5	0.0005	1023 / Falling	<0.1	3.50
	11/09/17	15.5	<0.1	0.5	51.3	51.2	0.0513	0.4	0.4	0.0004	999 / Rising	NR	4.20
	17/01/18	<0.1	<0.1	20.0	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.0001	1007 / Rising	362.5	NR
	15/02/18	31.5	0.1	18.1	<0.1	<0.1	0.0001	<0.1	<0.1	0.0001	1002 / Rising	NR	3.01
	12/09/18	<0.1	<0.1	20.2	<0.1	<0.1	<0.0001	0.3	0.3	0.0003	1023 / Steady	2.0	4.09
	15/11/18	<0.1	<0.1	20.3	<0.1	<0.1	<0.0001	0.2	0.2	0.0002	1018 / Rising	2.7	3.95
MW6	15/05/17	<0.1	<0.1	19.0	1.1	0.2	0.0011	0.4	0.3	0.0004	1022 / Rising	NR	4.02
	16/06/17	0.3	<0.1	>100†	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.0001	1023 / Rising	154.4	3.84
	26/06/17	<0.1	<0.1	>100†	0.3	0.3	0.0003	0.7	0.7	0.0007	1017 / Falling	NR	3.96
	10/07/17	<0.1	<0.1	>100†	0.3	<0.1	0.0003	0.9	0.9	0.0009	1005 / Rising	46.8	3.98
	24/07/17	1.8	0.2	14.5	<0.1	<0.1	0.0002	0.4	0.4	0.0008	1011 / Steady	NR	3.60
	07/08/17	<0.1	<0.1	22.2	<0.1	<0.1	<0.0001	0.9	0.9	0.0009	1017 / Falling	1.3	3.63
	21/08/17	<0.1	<0.1	22.7	<0.1	<0.1	<0.0001	0.6	0.6	0.0006	1023 / Falling	0.5	2.50
	11/09/17	<0.1	<0.1	17.7	<0.1	<0.1	<0.0001	0.5	0.5	0.0005	998 / Rising	NR	3.66
	17/01/18	<0.1	<0.1	20.0	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.0001	1007 / Rising	0.2	2.52
	15/02/18	<0.1	<0.1	No Data Recorded							1003 / Rising	NR	2.44
	13/09/18	<0.1	<0.1	19.3	<0.1	<0.1	<0.0001	3.7	3.7	0.0037	1020 / Steady	3.0	3.90
	14/11/18	50.0*	-	19.1	<0.1	<0.1	0.0500*	0.2	0.2	0.1000*	1020 / Rising	4.1	3.42

Well	Date	Flow (l/hr)		Low O_2 %v/v	Concentration CH_4		CH_4 Qhg l/hr	Concentration CO_2		CO_2 Qhg l/hr	Atmospheric Pressure / Dynamic	PID Value (ppm)	Depth to Water (mbgl)
		Peak	Steady		Peak %v/v	Steady %v/v		Peak %v/v	Steady %v/v				
MW7	15/05/17	<0.1	<0.1	20.0	0.4	<0.1	0.0004	<0.1	<0.1	<0.0001	1023 / Rising	NR	3.80
	16/06/17	<0.1	<0.1	>100†	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.0001	1023 / Rising	107..4	3.70
	26/06/17	<0.1	<0.1	>100†	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.0001	1017 / Falling	NR	4.00
	10/07/17	<0.1	<0.1	>100†	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.0001	1009 / Rising	84.0	5.06
	24/07/17	<0.1	<0.1	>100†	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.0001	1011 / Steady	NR	3.66
	07/08/17	<0.1	<0.1	>100†	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.0001	1023 / Falling	29.3	3.77
	21/08/17	<0.1	<0.1	>100†	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.0001	1023 / Falling	25.0	3.40
	11/09/17	<0.1	<0.1	>100†	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.0001	994 / Rising	NR	3.70
	17/01/18	<0.1	<0.1	20.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.0001	1007 / Rising	3.5	3.20
	15/02/18	<0.1	<0.1	20.2	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.0001	1004 / Rising	NR	3.00
	13/09/18	<0.1	<0.1	>100†	<0.1	<0.1	<0.0001	0.1	<0.1	0.0001	1019 / Steady	1.5	4.00
	14/11/18	<0.1	<0.1	20.4	<0.1	<0.1	<0.0001	0.1	0.1	0.0001	1019 / Rising	NR	4.94

NR – Not Recorded

* - Anomalous result. Considered possible borehole has been tampered with.

† - Very high O_2 reading associated with oxidising agent in groundwater.

APPENDIX VI

GROUNDWATER PARAMETERS MONITORING DATA

TABLE VI.1 SUMMARY OF GROUNDWATER PARAMETERS MONITORING DATA

Well	Date	Initial Water Level (mbgl)	Stable Temp (°C)	Stable pH	Stable (±5%) Conductivity (µs/cm)	Stable (±0.1) Dissolved Oxygen (mg/l)	Stable (±5) Oxygen Reduction Potential (mV)	Colour / Odour	Time to Stabilise (mins)
MW1	14/06/17	3.45	15.2	6.87	732	12.9	376.3	Cloudy / Odourless	30
	26/06/17	3.78	16.2	7.00	832	1981.3	237.0	Clear / Odourless	30
	14/07/17	4.10	19.3	6.86	898	7.4	221.3	Clear	40
	24/07/17	3.95	16.0	6.88	924	11.2	180.3	Clear / HC Odour	45
	08/08/17	4.02	15.4	6.86	872	9.0	73.3	Cloudy	35
	21/08/17	3.60	16.5	6.88	835	49.3	232.9	Clear	30
	12/09/17	4.00	17.0	6.84	825	42.1	160.2	Clear	40
	18/01/18	3.22	11.5	7.49	1132	0.8	-3.2	Cloudy / Odourless	20
	03/07/18	3.95	18.7	6.74	1453	77.7	226.8	Clear	50
	14/09/18	4.17	15.1	10.02	17699	346.6	-109.3	Clear / Odourless	50
	16/11/18	4.33	13.57	7.25	445.3	236.8	206.2	Clear / Odourless	25
MW2	16/06/17	3.84	15.6	6.57	21956	132.8	431.9	Cloudy / Odourless	45
	26/06/17	3.96	16.6	6.6	17444	55.5	373.8	Clear / Odourless	60
	14/07/17	4.14	19.6	6.51	19001	221.1	382.2	Clear	25
	24/07/17	4.00	15.7	6.55	14922	208.4	329.1	Clear / HC Odour	45
	08/08/17	3.93	15.2	6.52	12679	160.3	387.2	Cloudy	40
	21/08/17	3.64	16.1	6.79	10320	127.4	372	Slightly Cloudy	25
	12/09/17	4.02	16.4	6.47	8898	80.2	276.3	Slightly Cloudy	25
	18/01/18	3.30	10.8	5.03	5787	1.0	100.7	Cloudy / Odourless	17
	03/07/18	3.90	14.2	8.23	3884	0	-154.6	Cloudy	30
	14/09/18	4.15	15.0	7.22	31265	367.1	393.5	Cloudy / Odourless	45
	15/11/18	3.93	13.46	6.85	667.5	217.6	229.8	Clear / Odourless	30

Well	Date	Initial Water Level (mbgl)	Stable Temp (°C)	Stable pH	Stable (±5%) Conductivity (us/cm)	Stable (±0.1) Dissolved Oxygen (mg/l)	Stable (±5) Oxygen Reduction Potential (m/V)	Colour / Odour	Time to Stabilise (mins)
MW3	16/06/17	3.61	16.8	6.98	28302	175.0	371.4	Cloudy / Odourless	35
	26/06/17	3.91	20.2	6.98	23851	49.2	335.7	Clear / Odourless	70
	14/07/17	4.03	23.1	6.76	23162	291.1	416.7	Clear / Chlorine Odour	45
	24/07/17	3.92	16.5	6.63	21841	282.3	355.4	Clear / Odourless	20
	08/08/17	3.84	17.6	6.64	20876	284.2	399.3	Cloudy	25
	21/08/17	3.57	16.7	6.54	16738	229.1	435.7	Cloudy	25
	12/09/17	3.60	16.4	6.51	13920	179.2	334.8	Cloudy	25
	18/01/18	3.36	11.1	15.78	8463	0.8	-546.9	Cloudy / Odourless	20
	03/07/18	4.32	20.3	6.23	7091	46.7	269.2	Cloudy Orange	85
	14/09/18	4.02	14.3	6.77	22419	381.8	420.2	Clear / Odourless	30
	16/10/18	4.00	17.45	6.66	6642	155.6	241.9	Clear / Odourless	30
	16/11/18	4.13	13.39	6.53	516.4	192.0	232.6	Clear / Odourless	25
MW4	16/06/17	4.10	13.3	6.69	1613	8.7	3.1	Cloudy / HC Odour	35
	26/06/17	2.68	13.7	6.72	1881	11.2	-21.2	Cloudy / Strong HC	25
	14/07/17	4.32	18.1	6.69	1548	8.9	59.2	Not recorded	40
	24/07/17	4.07	14.7	6.75	1309	5.6	-29.1	Clear / Chlorine Odour	15
	08/08/17	3.68	14.0	7.19	983	6.4	-45.9	Slightly Cloudy	25
	21/08/17	3.41	16.4	7.1	859	8.2	-52.2	Clear	30
	12/09/17	3.86	15.6	7.14	873	6.5	-17.1	Slightly Cloudy	25
	18/01/18	3.19	10.0	12.35	455.3	1.1	183.2	Clear / HC Odour	25
	03/07/18	3.90	17.6	6.24	746	6.7	229.6	Clear	45
	14/09/18	4.13	16.3	7.23	628	10.8	114.7	Clear / Odourless	30
	16/10/18	3.88	15.85	7.31	462	44.1	209.5	Clear / Odourless	25
	16/11/18	4.10	12.80	8.22	41.54	31.3	141.2	Clear / Odourless	25

Well	Date	Initial Water Level (mbgl)	Stable Temp (°C)	Stable pH	Stable (±5%) Conductivity (us/cm)	Stable (±0.1) Dissolved Oxygen (mg/l)	Stable (±5) Oxygen Reduction Potential (m/V)	Colour / Odour	Time to Stabilise (mins)
MW5	16/06/17	4.07	17.8	6.60	12774	242.2	283.7	Cloudy / HC Odour	50
	26/06/17	3.05	17.0	6.75	12231	252	252	Slightly Cloudy / HC Odour	20
	14/07/17	4.24	15.5	6.55	10383	101.1	300.4	Cloudy	35
	24/07/17	4.00	16.0	6.49	9250	19.4	215.0	Clear / Chlorine Odour	20
	08/08/17	3.75	15.3	6.94	4038	6.4	26.3	Clear	50
	21/08/17	3.50	17.6	7.32	2802	4.1	62.3	Clear	30
	12/09/17	4.20	16.2	7.35	2609	4.6	-69.8	Slightly Cloudy	40
	18/01/18	2.68	8.2	9.10	1714	48.1	-13.11	Clear / HC Odour	20
	03/07/18	3.92	18.8	6.48	2394	6.9	-24.6	Clear	60
	14/09/18	4.09	18.7	7.34	4899	37.6	245.6	Clear / Odourless	20
	16/10/18	3.99	15.54	7.15	3257	34.4	247.7	Clear / Odourless	35
	16/11/18	3.95	13.16	7.63	189.1	46.6	191.3	Clear / Odourless	25
MW6	16/06/17	4.43	17.2	11.8	16577	361.8	122.6	Cloudy / HC Odour	30
	26/06/17	3.96	17.0	12.24	18301	72.6	164.7	Cloudy	45
	14/07/17	3.98	15.2	11.22	7923	250.0	82.36	Cloudy	45
	24/07/17	3.60	20.2	7.26	3597	64.1	169.6	Clear / Odourless	25
	08/08/17	3.63	15.1	7.44	3382	133.9	83.8	Clear	40
	21/08/17	2.50	16.9	7.40	2791	82.7	264.3	Cloudy	25
	12/09/17	3.60	15.0	9.57	2720	150.0	-0.6	Slightly Cloudy	70
	18/01/18	2.82	10.1	7.69	1508	60.1	-60.0	Clear / Odourless	35
	03/07/18	3.64	14.6	8.68	1417	170.5	63.6	Cloudy	30
	14/09/18	3.90	20.6	7.12	7809	105.9	298.7	Cloudy Yellow / Odourless	45
	17/10/18	4.20	14.85	8.13	3611	42.3	250.9	Clear Yellow / Odourless	55
	16/11/18	3.42	12.64	7.66	190.6	75.3	179.1	Clear / Odourless	25

Well	Date	Initial Water Level (mbgl)	Stable Temp (°C)	Stable pH	Stable (±5%) Conductivity (µs/cm)	Stable (±0.1) Dissolved Oxygen (mg/l)	Stable (±5) Oxygen Reduction Potential (m/V)	Colour / Odour	Time to Stabilise (mins)
MW7	16/06/17	3.79	15.4	11.63	12548	384.0	174.8	Cloudy	30
	26/06/17	4.00	16.7	11.79	12388	17.9	211.1	Cloudy	40
	14/07/17	4.06	15.6	11.59	6353	390.1	106.3	Not Recorded	25
	24/07/17	3.66	14.9	9.84	3147	266.3	224.3	Clear / Odourless	15
	08/08/17	3.77	15.2	9.90	2897	263.5	188.6	Slightly Cloudy	40
	21/08/17	3.40	16.4	11.60	2672	171.9	59.9	Clear	35
	12/09/17	3.70	15.2	11.30	2928	258.1	-21.3	Clear	30
	18/01/18	3.20	10.3	9.70	850	136.0	-57.3	Clear / Odourless	20
	03/07/18	3.77	12.5	9.72	1033	203.1	172.0	Clear	45
	14/09/18	4.21	16.5	11.76	9556	310.6	167.7	Clear / Odourless	25
	17/10/18	4.20	14.8	12.44	4379	342.7	169.0	Clear / Odourless	65
	16/11/18	4.94	12.41	11.62	132.0	247.6	145.7	Clear / Odourless	25

HC: Hydrocarbon

APPENDIX VII

LABORATORY ANALYSIS CERTIFICATES

APPENDIX VII - A

GROUNDWATER

ARUN DISTRICT COUNCIL R/93/19/DOC

CONCEPT LIFE SCIENCES

Concept Life Sciences is a trading name of Scientific Analysis Laboratories registered in England and Wales (No 2514788)

Concept Life Sciences

Certificate of Analysis

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Tel : 01376 560120
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Report Number: 654855-1

Date of Report: 25-May-2017

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Richard Hodkin

Customer Job Reference: 1CO102896
Customer Purchase Order: 002885
Customer Site Reference: Rustington
Date Job Received at Concept: 18-May-2017
Date Analysis Started: 22-May-2017
Date Analysis Completed: 25-May-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept SOPs

UKAS TESTING
1549

Report checked
and authorised by :
Claire Brown Crociquia
Customer Service Manager

Issued by :
Claire Brown Crociquia
Customer Service Manager

Concept Reference: 654855
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
REC TPH CWG (SE)

				Concept Reference	654855 003	654855 005	654855 007	654855 009	654855 010
				Customer Sample Reference	MW4 ES3 @ 3.80-4.00m	MW4 ES5 @ 5.40-6.00m	MW5 ES2 @ 3.50-4.00m	MW5 ES4 @ 5.40-6.00m	MW6 ES1 @ 1.60-2.00m
				Date Sampled	15-MAY-2017	15-MAY-2017	15-MAY-2017	16-MAY-2017	16-MAY-2017
				Type	Clay	Other	Clay	Other	Clay
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Benzene	T209	AR	10	µg/kg	(13) <10	(13) <10	(13) <10	(13) 31	(13) <10
Toluene	T209	AR	10	µg/kg	<10	(395) 2100	62	720	<10
EthylBenzene	T209	AR	10	µg/kg	(395) 4600	(395) 9300	760	(395) 2800	<10
M/P Xylene	T209	AR	10	µg/kg	(395) 14000	(395) 34000	1600	(395) 9900	10
O Xylene	T209	AR	10	µg/kg	(395) 1500	(395) 13000	480	(395) 3700	11
Methyl tert-Butyl Ether	T209	AR	10	µg/kg	<10	<10	<10	<10	<10
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	50	150	10.0	61	0.013
TPH (C5-C7 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	<0.010	0.026	<0.010
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	70	250	28	77	0.18
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	<0.010	1.8	0.053	0.62	<0.010
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	41	220	17	34	0.99
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	79	140	14	66	0.13
TPH (C10-C12 aliphatic)	T219	AR	2	mg/kg	36	30	27	30	28
TPH (C10-C12 aromatic)	T219	AR	2	mg/kg	17	13	11	13	11
TPH (C12-C16 aliphatic)	T219	AR	2	mg/kg	43	36	38	35	36
TPH (C12-C16 aromatic)	T219	AR	2	mg/kg	37	26	28	28	26
TPH (C16-C21 aliphatic)	T219	AR	2	mg/kg	12	12	10	(9) <10	(9) <10
TPH (C16-C21 aromatic)	T219	AR	2	mg/kg	14	(9) <10	(9) <10	(9) <10	(9) <10
TPH (C21-C35 aliphatic)	T219	AR	2	mg/kg	50	45	33	32	41
TPH (C21-C35 aromatic)	T219	AR	2	mg/kg	20	18	13	(9) <10	10
TPH (C35-C40 aliphatic)	T219	AR	2	mg/kg	(9) <10	(9) <10	(9) <10	(9) <10	(9) <10
TPH (C35-C40 aromatic)	T219	AR	2	mg/kg	(9) <10	(9) <10	(9) <10	(9) <10	(9) <10
Moisture @105C	T162	AR	0.1	%	16	14	14	15	15
Retained on 2mm	T2	A40	0.1	%	<0.1	1.5	<0.1	<0.1	7.4

Concept Reference: 654855
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
REC TPH CWG (SE)

				Concept Reference	**654855 011**	**654855 014**	**654855 016**
				Customer Sample Reference	**MW6 ES2 @ 3.50-4.00m**	**MW7 ES1 @ 1.50-2.00m**	**MW7 ES3 @ 5.20-5.50m**
				Date Sampled	**16-MAY-2017**	**16-MAY-2017**	**16-MAY-2017**
				Type	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Benzene	T209	AR	10	µg/kg	[13] <10	[13] <10	[13] <10
Toluene	T209	AR	10	µg/kg	<10	<10	<10
EthylBenzene	T209	AR	10	µg/kg	**79**	<10	<10
M/P Xylene	T209	AR	10	µg/kg	**140**	<10	<10
O Xylene	T209	AR	10	µg/kg	**190**	<10	<10
Methyl tert-Butyl Ether	T209	AR	10	µg/kg	<10	<10	<10
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	**4.0**	<0.010	**0.081**
TPH (C5-C7 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	<0.010
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	**12**	**0.095**	**0.69**
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	<0.010
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	**8.6**	**0.75**	**2.0**
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	**3.2**	**0.10**	**0.23**
TPH (C10-C12 aliphatic)	T219	AR	2	mg/kg	<2	<2	<2
TPH (C10-C12 aromatic)	T219	AR	2	mg/kg	<2	<2	<2
TPH (C12-C16 aliphatic)	T219	AR	2	mg/kg	<2	**4**	<2
TPH (C12-C16 aromatic)	T219	AR	2	mg/kg	<2	**4**	<2
TPH (C16-C21 aliphatic)	T219	AR	2	mg/kg	<2	**4**	<2
TPH (C16-C21 aromatic)	T219	AR	2	mg/kg	**2**	**11**	<2
TPH (C21-C35 aliphatic)	T219	AR	2	mg/kg	**3**	**29**	<2
TPH (C21-C35 aromatic)	T219	AR	2	mg/kg	**8**	**27**	**5**
TPH (C35-C40 aliphatic)	T219	AR	2	mg/kg	<2	**8**	<2
TPH (C35-C40 aromatic)	T219	AR	2	mg/kg	<2	**7**	<2
Moisture @105C	T162	AR	0.1	%	**17**	**13**	**14**
Retained on 2mm	T2	A40	0.1	%	**6.2**	**15.1**	**3.6**

Concept Reference: 654855
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
VOC (SE)

				Concept Reference	654855 003	654855 005	654855 007	654855 009	654855 010
				Customer Sample Reference	MW4 ES3 @ 3.80-4.00m	MW4 ES5 @ 5.40-6.00m	MW5 ES2 @ 3.50-4.00m	MW5 ES4 @ 5.40-6.00m	MW6 ES1 @ 1.60-2.00m
				Date Sampled	15-MAY-2017	15-MAY-2017	15-MAY-2017	16-MAY-2017	16-MAY-2017
				Type	Clay	Other	Clay	Other	Clay
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
1,1,1,2-Tetrachloroethane	T209	AR	50	µg/kg	<50	<50	<50	<50	<50
1,1,1-Trichloroethane	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	T209	AR	50	µg/kg	<50	<50	<50	<50	<50
1,1,2-Trichloroethane	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
1,1-Dichloroethane	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
1,1-Dichloroethylene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
1,1-Dichloropropene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
1,2,3-Trichlorobenzene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
1,2,3-Trichloropropane	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
1,2,4-Trichlorobenzene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
1,2,4-Trimethylbenzene	T54	AR	50	µg/kg	(395) 20000	(395) 30000	(395) 2600	(395) 17000	<50
1,2-Dibromo-3-Chloropropane	T54	AR	10	µg/kg	<10	<10	<10	<10	<10
1,2-dibromoethane	T209	AR	50	µg/kg	<50	<50	<50	<50	<50
1,2-Dichlorobenzene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
1,2-Dichloroethane	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
1,2-Dichloropropane	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
1,3,5-Trimethylbenzene	T54	AR	5	µg/kg	(395,131) 9200	(131,395) 12000	(131,395) 2300	(131,395) 7200	(131) 25
1,3-Dichlorobenzene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
1,3-Dichloropropane	T209	AR	50	µg/kg	<50	<50	<50	<50	<50
1,4-Dichlorobenzene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Ethyl-2-Methylbenzene	T54	AR	5	µg/kg	(395) 5700	(395) 7518	(395) 1500	(395) 4160	17
2,2-Dichloropropane	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
2-Chlorotoluene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
4-Chlorotoluene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Benzene	T209	AR	10	µg/kg	(13) <10	(13) <10	(13) <10	(13) 31	(13) <10
Bromobenzene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Bromochloromethane	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Bromodichloromethane	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Bromoform	T209	AR	50	µg/kg	<50	<50	<50	<50	<50
Bromomethane	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Carbon tetrachloride	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Chlorobenzene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Chlorodibromomethane	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Chloroethane	T209	AR	50	µg/kg	<50	<50	<50	<50	<50
Chloroform	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Chloromethane	T209	AR	50	µg/kg	<50	<50	<50	<50	<50
Cis-1,2-Dichloroethylene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Cis-1,3-Dichloropropene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Dibromomethane	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Dichlorodifluoromethane	T209	AR	50	µg/kg	<50	<50	<50	<50	<50
EthylBenzene	T209	AR	10	µg/kg	(395) 4600	(395) 9300	760	(395) 2800	<10
Hexachlorobutadiene	T209	AR	10	µg/kg	<10	<10	<10	<10	<10
Isopropyl benzene	T54	AR	50	µg/kg	(395) 1100	(395) 1800	120	680	<50
m/p ethyl toluene	T54	AR	5	µg/kg	(395) 19320	(395) 26380	(395) 3476	(395) 16770	7
M/P Xylene	T209	AR	10	µg/kg	(395) 14000	(395) 34000	1600	(395) 9900	10
Methyl tert-Butyl Ether	T209	AR	10	µg/kg	<10	<10	<10	<10	<10
n-Butylbenzene	T54	AR	10	µg/kg	(395) 4800	(395) 8500	(395) 1400	(395) 4200	40
n-Propylbenzene	T54	AR	50	µg/kg	(395) 3800	(395) 4900	410	(395) 3300	<50
O Xylene	T209	AR	10	µg/kg	(395) 1500	(395) 13000	480	(395) 3700	11
p-Isopropyltoluene	T54	AR	5	µg/kg	760	1100	50	440	6
S-Butylbenzene	T54	AR	5	µg/kg	1100	(395) 1500	92	760	<5
Styrene	T54	AR	50	µg/kg	<50	<50	<50	<50	<50
T-Butylbenzene	T54	AR	5	µg/kg	(395) 1900	(395) 2700	230	(395) 1600	<5
Tertiary amyl methyl ether	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Tetrachloroethene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Toluene	T209	AR	10	µg/kg	<10	(395) 2100	62	720	<10
Trans-1,2-Dichloroethene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Trans-1,3-Dichloropropene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5

Concept Reference: 654855
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
VOC (SE)

				Concept Reference	654855 003	654855 005	654855 007	654855 009	654855 010
				Customer Sample Reference	MW4 ES3 @ 3.80-4.00m	MW4 ES5 @ 5.40-6.00m	MW5 ES2 @ 3.50-4.00m	MW5 ES4 @ 5.40-6.00m	MW6 ES1 @ 1.60-2.00m
				Date Sampled	15-MAY-2017	15-MAY-2017	15-MAY-2017	16-MAY-2017	16-MAY-2017
				Type	Clay	Other	Clay	Other	Clay
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Trichloroethene	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Trichlorofluoromethane	T54	AR	5	µg/kg	<5	<5	<5	<5	<5
Vinyl chloride	T54	AR	10	µg/kg	<10	<10	<10	<10	<10



Concept Reference: 654855
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
VOC (SE)

	Concept Reference	654855 011	654855 014	654855 016
	Customer Sample Reference	MW6 ES2 @ 3.50-4.00m	MW7 ES1 @ 1.50-2.00m	MW7 ES3 @ 5.20-5.50m
	Date Sampled	16-MAY-2017	16-MAY-2017	16-MAY-2017
	Type	Clay	Clay	Clay

Determinand	Method	Test Sample	LOD	Units			
1,1,1,2-Tetrachloroethane	T209	AR	50	µg/kg	<50	<50	<50
1,1,1-Trichloroethane	T54	AR	5	µg/kg	<5	<5	<5
1,1,2,2-Tetrachloroethane	T209	AR	50	µg/kg	<50	<50	<50
1,1,2-Trichloroethane	T54	AR	5	µg/kg	<5	<5	<5
1,1-Dichloroethane	T54	AR	5	µg/kg	<5	<5	<5
1,1-Dichloroethylene	T54	AR	5	µg/kg	<5	<5	<5
1,1-Dichloropropene	T54	AR	5	µg/kg	<5	<5	<5
1,2,3-Trichlorobenzene	T54	AR	5	µg/kg	<5	<5	<5
1,2,3-Trichloropropane	T54	AR	5	µg/kg	<5	<5	<5
1,2,4-Trichlorobenzene	T54	AR	5	µg/kg	<5	<5	<5
1,2,4-Trimethylbenzene	T54	AR	50	µg/kg	**730**	<50	<50
1,2-Dibromo-3-Chloropropane	T54	AR	10	µg/kg	<10	<10	<10
1,2-dibromoethane	T209	AR	50	µg/kg	<50	<50	<50
1,2-Dichlorobenzene	T54	AR	5	µg/kg	<5	<5	<5
1,2-Dichloroethane	T54	AR	5	µg/kg	<5	<5	<5
1,2-Dichloropropane	T54	AR	5	µg/kg	<5	<5	<5
1,3,5-Trimethylbenzene	T54	AR	5	µg/kg	(131) **530**	(131) **13**	(131) **31**
1,3-Dichlorobenzene	T54	AR	5	µg/kg	<5	<5	<5
1,3-Dichloropropane	T209	AR	50	µg/kg	<50	<50	<50
1,4-Dichlorobenzene	T54	AR	5	µg/kg	<5	<5	<5
Ethyl-2-Methylbenzene	T54	AR	5	µg/kg	**390**	**15**	**26**
2,2-Dichloropropane	T54	AR	5	µg/kg	<5	<5	<5
2-Chlorotoluene	T54	AR	5	µg/kg	<5	<5	<5
4-Chlorotoluene	T54	AR	5	µg/kg	<5	<5	<5
Benzene	T209	AR	10	µg/kg	(13) <10	(13) <10	(13) <10
Bromobenzene	T54	AR	5	µg/kg	<5	<5	<5
Bromochloromethane	T54	AR	5	µg/kg	<5	<5	<5
Bromodichloromethane	T54	AR	5	µg/kg	<5	<5	<5
Bromoform	T209	AR	50	µg/kg	<50	<50	<50
Bromomethane	T54	AR	5	µg/kg	<5	<5	<5
Carbon tetrachloride	T54	AR	5	µg/kg	<5	<5	<5
Chlorobenzene	T54	AR	5	µg/kg	<5	<5	<5
Chlorodibromomethane	T54	AR	5	µg/kg	<5	<5	<5
Chloroethane	T209	AR	50	µg/kg	<50	<50	<50
Chloroform	T54	AR	5	µg/kg	<5	<5	<5
Chloromethane	T209	AR	50	µg/kg	<50	<50	<50
Cis-1,2-Dichloroethylene	T54	AR	5	µg/kg	<5	<5	<5
Cis-1,3-Dichloropropene	T54	AR	5	µg/kg	<5	<5	<5
Dibromomethane	T54	AR	5	µg/kg	<5	<5	<5
Dichlorodifluoromethane	T209	AR	50	µg/kg	<50	<50	<50
EthylBenzene	T209	AR	10	µg/kg	**79**	<10	<10
Hexachlorobutadiene	T209	AR	10	µg/kg	<10	<10	<10
Isopropyl benzene	T54	AR	50	µg/kg	<50	<50	<50
m/p ethyl toluene	T54	AR	5	µg/kg	**798**	**11**	**44**
M/P Xylene	T209	AR	10	µg/kg	**140**	<10	<10
Methyl tert-Butyl Ether	T209	AR	10	µg/kg	<10	<10	<10
n-Butylbenzene	T54	AR	10	µg/kg	**420**	**27**	**46**
n-Propylbenzene	T54	AR	50	µg/kg	**83**	<50	<50
O Xylene	T209	AR	10	µg/kg	**190**	<10	<10
p-Isopropyltoluene	T54	AR	5	µg/kg	**28**	**5**	**11**
S-Butylbenzene	T54	AR	5	µg/kg	**40**	**7**	**19**
Styrene	T54	AR	50	µg/kg	<50	<50	<50
T-Butylbenzene	T54	AR	5	µg/kg	**67**	<5	<5
Tertiary amyl methyl ether	T54	AR	5	µg/kg	<5	<5	<5
Tetrachloroethene	T54	AR	5	µg/kg	<5	<5	<5
Toluene	T209	AR	10	µg/kg	<10	<10	<10
Trans-1,2-Dichloroethene	T54	AR	5	µg/kg	<5	<5	<5
Trans-1,3-Dichloropropene	T54	AR	5	µg/kg	<5	<5	<5

Concept Reference: 654855
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
VOC (SE)

	Concept Reference	654855 011	654855 014	654855 016
	Customer Sample Reference	MW6 ES2 @ 3.50-4.00m	MW7 ES1 @ 1.50-2.00m	MW7 ES3 @ 5.20-5.50m
	Date Sampled	16-MAY-2017	16-MAY-2017	16-MAY-2017
	Type	Clay	Clay	Clay

Determinand	Method	Test Sample	LOD	Units			
Trichloroethene	T54	AR	5	µg/kg	<5	<5	<5
Trichlorofluoromethane	T54	AR	5	µg/kg	<5	<5	<5
Vinyl chloride	T54	AR	10	µg/kg	<10	<10	<10

Index to symbols used in 654855-1

Value	Description
AR	As Received
A40	Assisted dried < 40C
9	LOD raised due to dilution of sample
13	Results have been blank corrected.
395	This result is reported unaccredited as the result exceeds the calibration range of the technique
131	Result is outside of the scope of accreditation due to a QC Failure
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Reported results on as received samples are corrected to a 105 degree centigrade dry weight basis except TPH c5-c40 aro/ali split
Retained on 2mm is removed before analysis

Method Index

Value	Description
T209	GC/MS (Head Space)(MCERTS)
T2	Grav
T54	GC/MS (Headspace)
T162	Grav (1 Dec) (105 C)
T219	GC/FID (SE)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,1,1,2-Tetrachloroethane	T209	AR	50	µg/kg	U	003,007,010-011,014,016
1,1,1,2-Tetrachloroethane	T209	AR	50	µg/kg	N	005,009
1,1,1-Trichloroethane	T54	AR	5	µg/kg	M	003,007,010-011,014,016
1,1,1-Trichloroethane	T54	AR	5	µg/kg	N	005,009
1,1,2,2-Tetrachloroethane	T209	AR	50	µg/kg	U	003,007,010-011,014,016
1,1,2,2-Tetrachloroethane	T209	AR	50	µg/kg	N	005,009
1,1,2-Trichloroethane	T54	AR	5	µg/kg	U	003,007,010-011,014,016
1,1,2-Trichloroethane	T54	AR	5	µg/kg	N	005,009
1,1-Dichloroethane	T54	AR	5	µg/kg	M	003,007,010-011,014,016
1,1-Dichloroethane	T54	AR	5	µg/kg	N	005,009
1,1-Dichloroethylene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
1,1-Dichloroethylene	T54	AR	5	µg/kg	N	005,009
1,1-Dichloropropene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
1,1-Dichloropropene	T54	AR	5	µg/kg	N	005,009
1,2,3-Trichlorobenzene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
1,2,3-Trichlorobenzene	T54	AR	5	µg/kg	N	005,009
1,2,3-Trichloropropane	T54	AR	5	µg/kg	U	003,007,010-011,014,016
1,2,3-Trichloropropane	T54	AR	5	µg/kg	N	005,009
1,2,4-Trichlorobenzene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
1,2,4-Trichlorobenzene	T54	AR	5	µg/kg	N	005,009

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,2,4-Trimethylbenzene	T54	AR	50	µg/kg	M	003,007,010-011,014,016
1,2,4-Trimethylbenzene	T54	AR	50	µg/kg	N	005,009
1,2-Dibromo-3-Chloropropane	T54	AR	10	µg/kg	U	003,007,010-011,014,016
1,2-Dibromo-3-Chloropropane	T54	AR	10	µg/kg	N	005,009
1,2-dibromoethane	T209	AR	50	µg/kg	U	003,007,010-011,014,016
1,2-dibromoethane	T209	AR	50	µg/kg	N	005,009
1,2-Dichlorobenzene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
1,2-Dichlorobenzene	T54	AR	5	µg/kg	N	005,009
1,2-Dichloroethane	T54	AR	5	µg/kg	M	003,007,010-011,014,016
1,2-Dichloroethane	T54	AR	5	µg/kg	N	005,009
1,2-Dichloropropane	T54	AR	5	µg/kg	M	003,007,010-011,014,016
1,2-Dichloropropane	T54	AR	5	µg/kg	N	005,009
1,3,5-Trimethylbenzene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
1,3,5-Trimethylbenzene	T54	AR	5	µg/kg	N	005,009
1,3-Dichlorobenzene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
1,3-Dichlorobenzene	T54	AR	5	µg/kg	N	005,009
1,3-Dichloropropane	T209	AR	50	µg/kg	U	003,007,010-011,014,016
1,3-Dichloropropane	T209	AR	50	µg/kg	N	005,009
1,4-Dichlorobenzene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
1,4-Dichlorobenzene	T54	AR	5	µg/kg	N	005,009
Ethyl-2-Methylbenzene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Ethyl-2-Methylbenzene	T54	AR	5	µg/kg	N	005,009
2,2-Dichloropropane	T54	AR	5	µg/kg	M	003,007,010-011,014,016
2,2-Dichloropropane	T54	AR	5	µg/kg	N	005,009
2-Chlorotoluene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
2-Chlorotoluene	T54	AR	5	µg/kg	N	005,009
4-Chlorotoluene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
4-Chlorotoluene	T54	AR	5	µg/kg	N	005,009
Bromobenzene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Bromobenzene	T54	AR	5	µg/kg	N	005,009
Bromochloromethane	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Bromochloromethane	T54	AR	5	µg/kg	N	005,009
Bromodichloromethane	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Bromodichloromethane	T54	AR	5	µg/kg	N	005,009
Bromoform	T209	AR	50	µg/kg	U	003,007,010-011,014,016
Bromoform	T209	AR	50	µg/kg	N	005,009
Bromomethane	T54	AR	5	µg/kg	U	003,007,010-011,014,016
Bromomethane	T54	AR	5	µg/kg	N	005,009
Carbon tetrachloride	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Carbon tetrachloride	T54	AR	5	µg/kg	N	005,009
Chlorobenzene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Chlorobenzene	T54	AR	5	µg/kg	N	005,009
Chlorodibromomethane	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Chlorodibromomethane	T54	AR	5	µg/kg	N	005,009
Chloroethane	T209	AR	50	µg/kg	U	003,007,010-011,014,016
Chloroethane	T209	AR	50	µg/kg	N	005,009
Chloroform	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Chloroform	T54	AR	5	µg/kg	N	005,009
Chloromethane	T209	AR	50	µg/kg	N	003,005,007,009-011,014,016
Cis-1,2-Dichloroethylene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Cis-1,2-Dichloroethylene	T54	AR	5	µg/kg	N	005,009
Cis-1,3-Dichloropropene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Cis-1,3-Dichloropropene	T54	AR	5	µg/kg	N	005,009
Dibromomethane	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Dibromomethane	T54	AR	5	µg/kg	N	005,009
Dichlorodifluoromethane	T209	AR	50	µg/kg	N	003,005,007,009-011,014,016
EthylBenzene	T209	AR	10	µg/kg	M	003,007,010-011,014,016
Hexachlorobutadiene	T209	AR	10	µg/kg	U	003,007,010-011,014,016
Hexachlorobutadiene	T209	AR	10	µg/kg	N	005,009
Isopropyl benzene	T54	AR	50	µg/kg	M	003,007,010-011,014,016
Isopropyl benzene	T54	AR	50	µg/kg	N	005,009
m/p ethyl toluene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
m/p ethyl toluene	T54	AR	5	µg/kg	N	005,009
Methyl tert-Butyl Ether	T209	AR	10	µg/kg	M	003,007,010-011,014,016
Methyl tert-Butyl Ether	T209	AR	10	µg/kg	N	005,009
n-Butylbenzene	T54	AR	10	µg/kg	U	003,007,010-011,014,016
n-Butylbenzene	T54	AR	10	µg/kg	N	005,009
n-Propylbenzene	T54	AR	50	µg/kg	M	003,007,010-011,014,016
n-Propylbenzene	T54	AR	50	µg/kg	N	005,009
O Xylene	T209	AR	10	µg/kg	N	005,009

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
p-Isopropyltoluene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
p-Isopropyltoluene	T54	AR	5	µg/kg	N	005,009
S-Butylbenzene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
S-Butylbenzene	T54	AR	5	µg/kg	N	005,009
Styrene	T54	AR	50	µg/kg	M	003,007,010-011,014,016
Styrene	T54	AR	50	µg/kg	N	005,009
T-Butylbenzene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
T-Butylbenzene	T54	AR	5	µg/kg	N	005,009
Tertiary amyl methyl ether	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Tertiary amyl methyl ether	T54	AR	5	µg/kg	N	005,009
Tetrachloroethene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Tetrachloroethene	T54	AR	5	µg/kg	N	005,009
Toluene	T209	AR	10	µg/kg	M	003,007,010-011,014,016
Trans-1,2-Dichloroethene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Trans-1,2-Dichloroethene	T54	AR	5	µg/kg	N	005,009
Trans-1,3-Dichloropropene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Trans-1,3-Dichloropropene	T54	AR	5	µg/kg	N	005,009
Trichloroethene	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Trichloroethene	T54	AR	5	µg/kg	N	005,009
Trichlorofluoromethane	T54	AR	5	µg/kg	M	003,007,010-011,014,016
Trichlorofluoromethane	T54	AR	5	µg/kg	N	005,009
Vinyl chloride	T54	AR	10	µg/kg	M	003,007,010-011,014,016
Vinyl chloride	T54	AR	10	µg/kg	N	005,009
Benzene	T209	AR	10	µg/kg	M	003,007,010-011,014,016
Benzene	T209	AR	10	µg/kg	N	005,009
Toluene	T209	AR	10	µg/kg	N	005,009
EthylBenzene	T209	AR	10	µg/kg	N	005,009
M/P Xylene	T209	AR	10	µg/kg	M	003,007,010-011,014,016
M/P Xylene	T209	AR	10	µg/kg	N	005,009
O Xylene	T209	AR	10	µg/kg	M	003,007,010-011,014,016
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	N	003,005,007,009-011,014,016
TPH (C5-C7 aromatic)	T54	AR	0.010	mg/kg	N	003,005,007,009-011,014,016
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	N	003,005,007,009-011,014,016
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	N	003,005,007,009-011,014,016
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	N	003,005,007,009-011,014,016
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	N	003,005,007,009-011,014,016
TPH (C10-C12 aliphatic)	T219	AR	2	mg/kg	N	003,005,007,009-011,014,016
TPH (C10-C12 aromatic)	T219	AR	2	mg/kg	N	003,005,007,009-011,014,016
TPH (C12-C16 aliphatic)	T219	AR	2	mg/kg	N	003,005,007,009-011,014,016
TPH (C12-C16 aromatic)	T219	AR	2	mg/kg	N	003,005,007,009-011,014,016
TPH (C16-C21 aliphatic)	T219	AR	2	mg/kg	N	003,005,007,009-011,014,016
TPH (C16-C21 aromatic)	T219	AR	2	mg/kg	N	003,005,007,009-011,014,016
TPH (C21-C35 aliphatic)	T219	AR	2	mg/kg	N	003,005,007,009-011,014,016
TPH (C21-C35 aromatic)	T219	AR	2	mg/kg	N	003,005,007,009-011,014,016
TPH (C35-C40 aliphatic)	T219	AR	2	mg/kg	N	003,005,007,009-011,014,016
TPH (C35-C40 aromatic)	T219	AR	2	mg/kg	N	003,005,007,009-011,014,016
Moisture @105C	T162	AR	0.1	%	N	003,005,007,009-011,014,016
Retained on 2mm	T2	A40	0.1	%	N	003,005,007,009-011,014,016

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Concept Life Sciences

Certificate of Analysis

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Report Number: 653476-1

Date of Report: 19-May-2017

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Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 002850
Customer Site Reference: Rustington
Date Job Received at Concept: 12-May-2017
Date Analysis Started: 15-May-2017
Date Analysis Completed: 19-May-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

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Tests covered by this certificate were conducted in accordance with Concept SOPs

UKAS TESTING
1549

Report checked
and authorised by :
Claire Brown Crociquia
Customer Service Manager

Issued by :
Claire Brown Crociquia
Customer Service Manager

Concept Reference: 653476
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

	Concept Reference	653476 001	653476 002	653476 003	653476 004	653476 005
	Customer Sample Reference	MW1-W	MW2-W	MW3-W	MW4-W	MW5-W
	Date Sampled	11-MAY-2017	11-MAY-2017	11-MAY-2017	11-MAY-2017	11-MAY-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Total Hardness expressed as CaCO3	T649	AR	10	mg/l	430	430	590	360	350

Concept Reference: 653476
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

	Concept Reference	653476 006	653476 007
	Customer Sample Reference	MW6-W	MW7-W
	Date Sampled	11-MAY-2017	11-MAY-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Total Hardness expressed as CaCO3	T649	AR	10	mg/l	140	290

Concept Reference: 653476
Project Site: Rustington
Customer Reference: 1CO102896

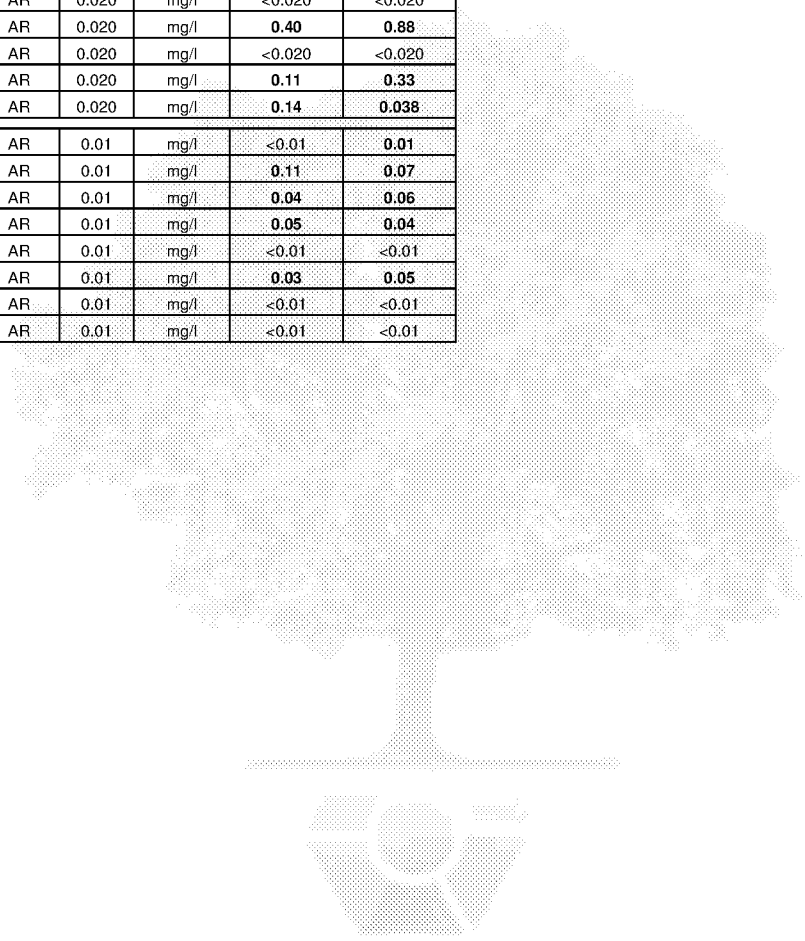
Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

	Concept Reference	653476 001	653476 002	653476 003	653476 004	653476 005
	Customer Sample Reference	MW1-W	MW2-W	MW3-W	MW4-W	MW5-W
	Date Sampled	11-MAY-2017	11-MAY-2017	11-MAY-2017	11-MAY-2017	11-MAY-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Benzene	T54	AR	1	µg/l	<1	(13) 3	(13) 45	(13) 7300	(13) 12000
Toluene	T54	AR	1	µg/l	9	<1	10	410	14000
EthylBenzene	T54	AR	1	µg/l	<1	<1	13	2000	2700
M/P Xylene	T54	AR	1	µg/l	<1	2	49	4700	8200
O Xylene	T54	AR	1	µg/l	<1	1	11	320	3500
Methyl tert-Butyl Ether	T54	AR	1	µg/l	3	7	140	1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	0.022	4.5	4.4
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	0.045	7.3	12
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	2.3	3.2
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	0.41	14
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	0.57	1.6
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020	0.061	0.23	10.0	19
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	0.54	1.1
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	0.03	0.23	0.29	1.2	2.5
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	0.07	<0.01	0.02	0.26	0.59
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	0.05	0.89	1.2	0.31	0.77
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	(48) <0.02	0.06
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	0.06	0.58	0.68	0.19	0.29
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	(48) <0.02	0.08
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	<0.01	0.30	0.31	0.02	0.07

Concept Reference: 653476
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

				Concept Reference	**653476 006**	**653476 007**
				Customer Sample Reference	**MW6-W**	**MW7-W**
				Date Sampled	**11-MAY-2017**	**11-MAY-2017**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benzene	T54	AR	1	µg/l	[13] 7	[13] 1
Toluene	T54	AR	1	µg/l	**3**	**2**
EthylBenzene	T54	AR	1	µg/l	<1	**1**
M/P Xylene	T54	AR	1	µg/l	**20**	<1
O Xylene	T54	AR	1	µg/l	**6**	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	**0.39**	**0.39**
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	**0.40**	**0.88**
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	**0.11**	**0.33**
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	**0.14**	**0.038**
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	**0.01**
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	**0.11**	**0.07**
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	**0.04**	**0.06**
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	**0.05**	**0.04**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	**0.03**	**0.05**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	<0.01	<0.01



Concept Reference: 653476
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	653476 001	653476 002	653476 003	653476 004	653476 005
					Customer Sample Reference	MW1-W	MW2-W	MW3-W	MW4-W	MW5-W
					Date Sampled	11-MAY-2017	11-MAY-2017	11-MAY-2017	11-MAY-2017	11-MAY-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Benzene	T54	AR	1	µg/l		<1	(13) 3	(13) 45	(13) 7300	(13) 12000
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	2	<1	<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	2	2
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1	2	150	93
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	3	360
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	25	24	639	550
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1	14	2
O Xylene	T54	AR	1	µg/l		<1	1	11	320	3500
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5	18	572	1466
n-Butylbenzene	T54	AR	1	µg/l		<1	5	7	240	250
M/P Xylene	T54	AR	1	µg/l		<1	2	49	4700	8200
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	24	10
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1	<1	2
Dibromochloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	6
Styrene	T54	AR	1	µg/l		<1	<1	<1	14	160
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1	7	390	700
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1	1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1	<1	130	65
Chloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	1	4	180	180
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1	<1	<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1	13	2000	2700
Methyl tert-Butyl Ether	T54	AR	1	µg/l		3	7	140	1	<1
Toluene	T54	AR	1	µg/l		9	<1	10	410	14000
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1	<1	25	7
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1	<1	6	4
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1	120	72
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1	290	520
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	13	44	1100	1600
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1	3	340	580
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	28	3
Bromobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1	14	2	5
Dibromomethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1	1	59	32
Trichloroethene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1	3	35	16
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1	4	9	14
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	4	9	450	610
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1	<1	27	27
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1	1	17	11
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1	<1	<1	<1

Concept Reference: 653476
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

				Concept Reference	653476 001	653476 002	653476 003	653476 004	653476 005
				Customer Sample Reference	MW1-W	MW2-W	MW3-W	MW4-W	MW5-W
				Date Sampled	11-MAY-2017	11-MAY-2017	11-MAY-2017	11-MAY-2017	11-MAY-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
n-Propylbenzene	T54	AR	1	µg/l	<1	<1	3	330	300



Concept Reference: 653476
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	653476 006	653476 007
					Customer Sample Reference	MW6-W	MW7-W
					Date Sampled	11-MAY-2017	11-MAY-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Benzene	T54	AR	1	µg/l		(13) 7	(13) 1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	1
Bromomethane	T54	AR	1	µg/l		<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1
Isopropyl benzene	T54	AR	1	µg/l		4	2
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		24	<5
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1
O Xylene	T54	AR	1	µg/l		6	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		25	7
n-Butylbenzene	T54	AR	1	µg/l		7	7
M/P Xylene	T54	AR	1	µg/l		20	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		6	8
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1
Styrene	T54	AR	1	µg/l		<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Bromodichloromethane	T54	AR	1	µg/l		4	10
Chloromethane	T54	AR	1	µg/l		2	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
Toluene	T54	AR	1	µg/l		3	2
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	5
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		2	7
1,1,2-Trichloroethane	T54	AR	1	µg/l		65	170
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1
S-Butylbenzene	T54	AR	1	µg/l		2	3
Trichloroethene	T54	AR	1	µg/l		<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		6	6
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1

Concept Reference: 653476
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

Concept Reference	**653476 006**	**653476 007**
Customer Sample Reference	**MW6-W**	**MW7-W**
Date Sampled	**11-MAY-2017**	**11-MAY-2017**

Determinand	Method	Test Sample	LOD	Units		
n-Propylbenzene	T54	AR	1	µg/l	**24**	**3**

Index to symbols used in 653476-1

Value	Description
AR	As Received
48	LOD raised due to volume of sample employed
13	Results have been blank corrected.
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T649	ICP/OES (Calc)
T219	GC/FID (SE)
T54	GC/MS (Headspace)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Total Hardness expressed as CaCO3	T649	AR	10	mg/l	U	001-007
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-007
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-007
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,2-dibromoethane	T54	AR	1	µg/l	N	001-007
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-007
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
2-Chlorotoluene	T54	AR	1	µg/l	U	001-007
4-Chlorotoluene	T54	AR	1	µg/l	U	001-007
Bromobenzene	T54	AR	1	µg/l	U	001-007
Bromochloromethane	T54	AR	1	µg/l	U	001-007
Bromodichloromethane	T54	AR	1	µg/l	U	001-007
Bromoform	T54	AR	1	µg/l	N	001-007
Bromomethane	T54	AR	1	µg/l	U	001-007
Carbon tetrachloride	T54	AR	1	µg/l	U	001-007
Chlorobenzene	T54	AR	1	µg/l	U	001-007
Chloroethane	T54	AR	1	µg/l	U	001-007
Chloroform	T54	AR	1	µg/l	U	001-007
Chloromethane	T54	AR	1	µg/l	U	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Dibromochloromethane	T54	AR	1	µg/l	U	001-007
Dibromomethane	T54	AR	1	µg/l	U	001-007
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-007
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-007
Isopropyl benzene	T54	AR	1	µg/l	U	001-007
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-007
S-Butylbenzene	T54	AR	1	µg/l	U	001-007
Styrene	T54	AR	1	µg/l	U	001-007
T-Butylbenzene	T54	AR	1	µg/l	U	001-007
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
m/p ethyl toluene	T54	AR	5	µg/l	U	001-007
n-Butylbenzene	T54	AR	1	µg/l	U	001-007
n-Propylbenzene	T54	AR	1	µg/l	U	001-007
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-007
Benzene	T54	AR	1	µg/l	U	001-007
EthylBenzene	T54	AR	1	µg/l	U	001-007
M/P Xylene	T54	AR	1	µg/l	U	001-007
O Xylene	T54	AR	1	µg/l	U	001-007
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-007

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Concept Life Sciences

Certificate of Analysis

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Report Number: 661419-1

Date of Report: 22-Jun-2017

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 003029
Customer Site Reference: Rustington
Date Job Received at Concept: 16-Jun-2017
Date Analysis Started: 16-Jun-2017
Date Analysis Completed: 22-Jun-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept SOPs

UKAS TESTING
1549

Report checked and authorised by :
Aislinn Arthey
Trainee Project Manager

Issued by :
Aislinn Arthey
Trainee Project Manager

Concept Reference: 661419
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

					Concept Reference	661419 001	661419 002	661419 003	661419 004	661419 005
					Customer Sample Reference	MW1 W1	MW2 W1	MW3 W1	MW4 W1	MW5 W1
					Date Sampled	14-JUN-2017	14-JUN-2017	14-JUN-2017	14-JUN-2017	14-JUN-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Fe (Dissolved)	T281	F	0.005	mg/l		**0.022**	(110) <0.25	(110) <0.25	**4.4**	(110) <0.25
Mn (Dissolved)	T281	F	0.001	mg/l		**0.42**	(110) <0.050	(110) <0.050	**1.7**	**4.4**
Total Hardness expressed as CaCO3	T649	F	10	mg/l		**320**	**2200**	**1500**	**470**	**1700**
BOD (ATU)	T264	F	1	mg/l		**9**	**13**	**12**	**26**	**16**
Chemical Oxygen Demand	T221	F	20	mg/l		**25**	**2400**	**1100**	**120**	**670**
pH	T7	F				**7.5**	**7.2**	**7.5**	**7.2**	**7.4**

Concept Reference: 661419
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

					Concept Reference	661419 006	661419 007
					Customer Sample Reference	MW6 W1	MW7 W1
					Date Sampled	14-JUN-2017	14-JUN-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Fe (Dissolved)	T281	F	0.005	mg/l		**0.56**	**0.56**
Mn (Dissolved)	T281	F	0.001	mg/l		(110) <0.050	**0.47**
Total Hardness expressed as CaCO3	T649	F	10	mg/l		**1100**	**1400**
BOD (ATU)	T264	F	1	mg/l		**2**	**2**
Chemical Oxygen Demand	T221	F	20	mg/l		**370**	**320**
pH	T7	F				**11.8**	**11.7**

Concept Reference: 661419
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

					Concept Reference	661419 001	661419 002	661419 003	661419 004	661419 005
					Customer Sample Reference	MW1 W1	MW2 W1	MW3 W1	MW4 W1	MW5 W1
					Date Sampled	14-JUN-2017	14-JUN-2017	14-JUN-2017	14-JUN-2017	14-JUN-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Benzene	T54	AR	1	µg/l		<1	**2**	(2) <10	**3500**	**4500**
Toluene	T54	AR	1	µg/l		<1	**1**	(2) <10	**89**	**3500**
EthylBenzene	T54	AR	1	µg/l		<1	**10**	(2) <10	**760**	**1200**
M/P Xylene	T54	AR	1	µg/l		<1	**13**	(2) <10	**670**	**3000**
O Xylene	T54	AR	1	µg/l		<1	**10**	(2) <10	**120**	**1500**
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	**3**	(2) <10	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020	(2) <0.20	**0.097**	**0.57**
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020	(2) <0.20	**3.5**	**4.5**
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020	(2) <0.20	**0.064**	**0.71**
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020	(2) <0.20	**0.089**	**3.5**
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020	(2) <0.20	<0.020	**0.33**
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l		<0.020	**0.058**	(2) <0.20	**2.1**	**7.3**
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01	**0.01**	**0.12**
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l		<0.01	**0.07**	**0.02**	**0.26**	**2.8**
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01	<0.01	**0.12**
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l		<0.01	**0.46**	**0.10**	**0.17**	**2.2**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01	<0.01	**0.02**
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l		**0.02**	**0.37**	**0.06**	**0.10**	**0.83**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l		**0.04**	**0.33**	**0.07**	**0.12**	**0.47**

Concept Reference: 661419
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

				Concept Reference	**661419 006**	**661419 007**
				Customer Sample Reference	**MW6 W1**	**MW7 W1**
				Date Sampled	**14-JUN-2017**	**14-JUN-2017**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benzene	T54	AR	1	µg/l	**2**	<1
Toluene	T54	AR	1	µg/l	<1	<1
EthylBenzene	T54	AR	1	µg/l	**1**	<1
M/P Xylene	T54	AR	1	µg/l	**3**	<1
O Xylene	T54	AR	1	µg/l	**1**	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	**0.039**	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	**0.04**	<0.01
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	**0.10**	**0.03**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	**0.05**	**0.05**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	**0.06**	<0.01

Concept Reference: 661419
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	661419 001	661419 002	661419 003	661419 004	661419 005
					Customer Sample Reference	MW1 W1	MW2 W1	MW3 W1	MW4 W1	MW5 W1
					Date Sampled	14-JUN-2017	14-JUN-2017	14-JUN-2017	14-JUN-2017	14-JUN-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Benzene	T54	AR	1	µg/l		<1	2	(2) <10	3500	4500
Chloroform	T54	AR	1	µg/l		<1	<1	(2) <10	5	3
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1	(2) <10	<1	2
Vinyl chloride	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	10	(2) <10	<1	<1
Styrene	T54	AR	1	µg/l		<1	<1	(2) <10	6	68
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5	(2) <50	79	495
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	3	(2) <10	<1	<1
Toluene	T54	AR	1	µg/l		<1	1	(2) <10	89	3500
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	(2) <10	2	7
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	2	(2) <10	37	550
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1	(2) <10	62	150
2-Chlorotoluene	T54	AR	1	µg/l		<1	6	(2) <10	<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	2	(2) <10	<1	1
Bromobenzene	T54	AR	1	µg/l		<1	5	(2) <10	<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
n-Butylbenzene	T54	AR	1	µg/l		<1	<1	(2) <10	9	36
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1	(2) <10	4	3
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5	(2) <50	124	157
Bromochloromethane	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	7	(2) <10	<1	44
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	8	(2) <10	26	120
1,2-Dichloropropane	T54	AR	1	µg/l		<1	3	(2) <10	4	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	7	(2) <10	<1	12
Bromoform	T54	AR	1	µg/l		<1	16	(2) <10	<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
Chloromethane	T54	AR	1	µg/l		<1	1	(2) <10	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	2	(2) <10	<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	1	(2) <10	<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	10	(2) <20	<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	2	(2) <10	<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	6	(2) <10	<1	250
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
n-Propylbenzene	T54	AR	1	µg/l		<1	4	(2) <10	76	76
EthylBenzene	T54	AR	1	µg/l		<1	10	(2) <10	760	1200
O Xylene	T54	AR	1	µg/l		<1	10	(2) <10	120	1500
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	1	(2) <10	4	46
Tetrachloroethene	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	13	(2) <10	670	3000
1,1-Dichloroethane	T54	AR	1	µg/l		<1	2	(2) <10	5	14
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	7	(2) <10	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	2	(2) <10	210	330
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	(2) <10	2	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	1	(2) <10	<1	5
Dibromomethane	T54	AR	1	µg/l		<1	<1	(2) <10	<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	2	(2) <10	<1	3

Concept Reference: 661419
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

				Concept Reference	661419 001	661419 002	661419 003	661419 004	661419 005
				Customer Sample Reference	MW1 W1	MW2 W1	MW3 W1	MW4 W1	MW5 W1
				Date Sampled	14-JUN-2017	14-JUN-2017	14-JUN-2017	14-JUN-2017	14-JUN-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Tertiary amyl methyl ether	T54	AR	1	µg/l	<1	1	[(2)] <10	**250**	**350**



Concept Reference: 661419
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	661419 006	661419 007
					Customer Sample Reference	MW6 W1	MW7 W1
					Date Sampled	14-JUN-2017	14-JUN-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Benzene	T54	AR	1	µg/l		2	<1
Chloroform	T54	AR	1	µg/l		<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1
Styrene	T54	AR	1	µg/l		<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
Toluene	T54	AR	1	µg/l		<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1
n-Butylbenzene	T54	AR	1	µg/l		<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5
Bromochloromethane	T54	AR	1	µg/l		<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1
n-Propylbenzene	T54	AR	1	µg/l		<1	<1
EthylBenzene	T54	AR	1	µg/l		1	<1
O Xylene	T54	AR	1	µg/l		1	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1
M/P Xylene	T54	AR	1	µg/l		3	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1

Concept Reference: 661419
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	661419 006	661419 007
					Customer Sample Reference	MW6 W1	MW7 W1
					Date Sampled	14-JUN-2017	14-JUN-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1

Index to symbols used in 661419-1

Value	Description
AR	As Received
F	Filtered
110	LOD raised due to low internal standard recovery.
2	LOD Raised Due to Matrix Interference
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T264	Probe (Incubation Carbonaceous) (5 Days)
T54	GC/MS (Headspace)
T219	GC/FID (SE)
T7	Probe
T221	Colorimetry (CE)
T649	ICP/OES (Calc)
T281	ICP/MS (Filtered)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
EthylBenzene	T54	AR	1	µg/l	U	001-007
M/P Xylene	T54	AR	1	µg/l	U	001-007
O Xylene	T54	AR	1	µg/l	U	001-007
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-007
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-007
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-007
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-007
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,2-dibromoethane	T54	AR	1	µg/l	N	001-007
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-007
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
2-Chlorotoluene	T54	AR	1	µg/l	U	001-007
4-Chlorotoluene	T54	AR	1	µg/l	U	001-007
Benzene	T54	AR	1	µg/l	U	001-007
Bromobenzene	T54	AR	1	µg/l	U	001-007
Bromochloromethane	T54	AR	1	µg/l	U	001-007
Bromodichloromethane	T54	AR	1	µg/l	U	001-007
Bromoform	T54	AR	1	µg/l	N	001-007
Bromomethane	T54	AR	1	µg/l	U	001-007
Carbon tetrachloride	T54	AR	1	µg/l	U	001-007
Chlorobenzene	T54	AR	1	µg/l	U	001-007
Chloroethane	T54	AR	1	µg/l	U	001-007
Chloroform	T54	AR	1	µg/l	U	001-007
Chloromethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Dibromochloromethane	T54	AR	1	µg/l	U	001-007
Dibromomethane	T54	AR	1	µg/l	U	001-007
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-007
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-007
Isopropyl benzene	T54	AR	1	µg/l	U	001-007
S-Butylbenzene	T54	AR	1	µg/l	U	001-007
Styrene	T54	AR	1	µg/l	U	001-007
T-Butylbenzene	T54	AR	1	µg/l	U	001-007
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
m/p ethyl toluene	T54	AR	5	µg/l	U	001-007
n-Butylbenzene	T54	AR	1	µg/l	U	001-007
n-Propylbenzene	T54	AR	1	µg/l	U	001-007
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-007
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-007
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-007
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-007
BOD (ATU)	T264	F	1	mg/l	N	001-007
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-007
pH	T7	F			U	001-007

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Concept Life Sciences

Certificate of Analysis

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Fax : 01376 552923

Report Number: 664461-1

Date of Report: 05-Jul-2017

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 003029
Customer Site Reference: Rustington
Date Job Received at Concept: 29-Jun-2017
Date Analysis Started: 29-Jun-2017
Date Analysis Completed: 05-Jul-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept SOPs

UKAS TESTING
1549

Report checked
and authorised by :
Claire Brown Crociquia
Customer Service Manager

Issued by :
Claire Brown Crociquia
Customer Service Manager

Concept Reference: 664461
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

					Concept Reference	664461 001	664461 002	664461 003	664461 004	664461 005
					Customer Sample Reference	MW1-W2	MW2-W2	MW3-W2	MW4-W2	MW5-W2
					Date Sampled	27-JUN-2017	26-JUN-2017	26-JUN-2017	27-JUN-2017	27-JUN-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Fe (Dissolved)	T281	F	0.005	mg/l		(149) <0.025	(110) <0.050	0.47	<0.005	(110) <0.050
Mn (Dissolved)	T281	F	0.001	mg/l		0.61	0.011	0.037	1.8	1.9
Total Hardness expressed as CaCO3	T649	F	10	mg/l		390	1600	1500	550	1800
BOD (ATU)	T264	F	1	mg/l		5	8	7	17	5
Chemical Oxygen Demand	T221	F	20	mg/l		<20	680	730	110	610
pH	T7	F				7.8	7.5	7.6	7.7	7.5

Concept Reference: 664461
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

					Concept Reference	664461 006	664461 007
					Customer Sample Reference	MW6-W2	MW7-W2
					Date Sampled	27-JUN-2017	27-JUN-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Fe (Dissolved)	T281	F	0.005	mg/l		(110) <0.050	(110) <0.050
Mn (Dissolved)	T281	F	0.001	mg/l		(110) <0.010	(110) <0.010
Total Hardness expressed as CaCO3	T649	F	10	mg/l		720	950
BOD (ATU)	T264	F	1	mg/l		<1	<1
Chemical Oxygen Demand	T221	F	20	mg/l		170	160
pH	T7	F				12.0	11.5

Concept Reference: 664461
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

					Concept Reference	664461 001	664461 002	664461 003	664461 004	664461 005
					Customer Sample Reference	MW1-W2	MW2-W2	MW3-W2	MW4-W2	MW5-W2
					Date Sampled	27-JUN-2017	26-JUN-2017	26-JUN-2017	27-JUN-2017	27-JUN-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Benzene	T54	AR	1	µg/l		<1	(110) <20	(110) <20	5700	4900
EthylBenzene	T54	AR	1	µg/l		<1	(110) <20	(110) <20	<1	760
M/P Xylene	T54	AR	1	µg/l		<1	(110) <20	(110) <20	1200	2100
O Xylene	T54	AR	1	µg/l		<1	(110) <20	(110) <20	150	980
Toluene	T54	AR	1	µg/l		<1	(110) <20	(110) <20	170	4500
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	(110) <20	(110) <20	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l		<0.020	(110) <0.20	(110) <0.20	1.5	0.54
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l		<0.020	(110) <0.20	(110) <0.20	4.4	4.2
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l		<0.020	(110) <0.20	(110) <0.20	0.74	0.48
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l		<0.020	(110) <0.20	(110) <0.20	0.17	3.3
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l		<0.020	(110) <0.20	(110) <0.20	0.34	0.23
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l		<0.020	0.27	1.7	3.5	4.9
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01	0.03	0.07
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l		<0.01	0.05	0.01	0.48	2.8
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01	0.05	0.13
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l		<0.01	0.49	0.09	0.35	2.3
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01	<0.01	0.04
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l		0.03	0.29	0.06	0.13	0.76
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l		0.04	0.30	0.03	0.08	0.39

Concept Reference: 664461
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

				Concept Reference	**664461 006**	**664461 007**
				Customer Sample Reference	**MW6-W2**	**MW7-W2**
				Date Sampled	**27-JUN-2017**	**27-JUN-2017**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benzene	T54	AR	1	µg/l	<1	<1
EthylBenzene	T54	AR	1	µg/l	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1
O Xylene	T54	AR	1	µg/l	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	**0.02**	**0.01**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	**0.02**	**0.02**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	<0.01	<0.01

Concept Reference: 664461
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

		Concept Reference	664461 001	664461 002	664461 003	664461 004	664461 005
		Customer Sample Reference	MW1-W2	MW2-W2	MW3-W2	MW4-W2	MW5-W2
		Date Sampled	27-JUN-2017	26-JUN-2017	26-JUN-2017	27-JUN-2017	27-JUN-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Toluene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	**170**	**4500**
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	**200**	<1
1,2-Dichloropropane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	<5	(110) <20	(110) <20	**196**	**90**
2,2-Dichloropropane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
2-Chlorotoluene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Chloromethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Styrene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
n-Propylbenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	**43**
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	**440**	**180**
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Chloroethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
T-Butylbenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Vinyl chloride	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
1,2-dibromoethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Tetrachloroethene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
EthylBenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	**760**
M/P Xylene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	**1200**	**2100**
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Chloroform	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Dibromochloromethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	**87**	**88**
4-Chlorotoluene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Bromochloromethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Bromoform	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Carbon tetrachloride	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
m/p ethyl toluene	T54	AR	5	µg/l	<5	(110) <20	(110) <20	**199**	**279**
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
O Xylene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	**150**	**980**
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Bromodichloromethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Chlorobenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Isopropyl benzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	**28**
S-Butylbenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Trichloroethene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Bromobenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Benzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	**5700**	**4900**
1,1-Dichloropropene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Bromomethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1
Dibromomethane	T54	AR	1	µg/l	<1	(110) <20	(110) <20	<1	<1

Concept Reference: 664461
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

				Concept Reference	**664461 001**	**664461 002**	**664461 003**	**664461 004**	**664461 005**
				Customer Sample Reference	**MW1-W2**	**MW2-W2**	**MW3-W2**	**MW4-W2**	**MW5-W2**
				Date Sampled	**27-JUN-2017**	**26-JUN-2017**	**26-JUN-2017**	**27-JUN-2017**	**27-JUN-2017**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
n-Butylbenzene	T54	AR	1	µg/l	<1	(110) <20	(110) <20	21	14



Concept Reference: 664461
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	664461 006	664461 007
					Customer Sample Reference	MW6-W2	MW7-W2
					Date Sampled	27-JUN-2017	27-JUN-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Toluene	T54	AR	1	µg/l		<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1
Styrene	T54	AR	1	µg/l		<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1
n-Propylbenzene	T54	AR	1	µg/l		<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Benzene	T54	AR	1	µg/l		<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1

Concept Reference: 664461
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	664461 006	664461 007
					Customer Sample Reference	MW6-W2	MW7-W2
					Date Sampled	27-JUN-2017	27-JUN-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
n-Butylbenzene	T54	AR	1	µg/l		<1	<1

Index to symbols used in 664461-1

Value	Description
F	Filtered
AR	As Received
149	LOD raised due to high dissolved solids
110	LOD raised due to low internal standard recovery.
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T7	Probe
T219	GC/FID (SE)
T264	Probe (Incubation Carbonaceous) (5 Days)
T54	GC/MS (Headspace)
T649	ICP/OES (Calc)
T281	ICP/MS (Filtered)
T221	Colorimetry (CE)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-007
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-007
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-007
BOD (ATU)	T264	F	1	mg/l	N	001-007
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-007
pH	T7	F			U	001-007
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-007
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-007
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,2-dibromoethane	T54	AR	1	µg/l	N	001-007
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-007
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
2-Chlorotoluene	T54	AR	1	µg/l	U	001-007
4-Chlorotoluene	T54	AR	1	µg/l	U	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Benzene	T54	AR	1	µg/l	U	001-007
Bromobenzene	T54	AR	1	µg/l	U	001-007
Bromochloromethane	T54	AR	1	µg/l	U	001-007
Bromodichloromethane	T54	AR	1	µg/l	U	001-007
Bromoform	T54	AR	1	µg/l	N	001-007
Bromomethane	T54	AR	1	µg/l	U	001-007
Carbon tetrachloride	T54	AR	1	µg/l	U	001-007
Chlorobenzene	T54	AR	1	µg/l	U	001-007
Chloroethane	T54	AR	1	µg/l	U	001-007
Chloroform	T54	AR	1	µg/l	U	001-007
Chloromethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Dibromochloromethane	T54	AR	1	µg/l	U	001-007
Dibromomethane	T54	AR	1	µg/l	U	001-007
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-007
EthylBenzene	T54	AR	1	µg/l	U	001-007
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-007
Isopropyl benzene	T54	AR	1	µg/l	U	001-007
M/P Xylene	T54	AR	1	µg/l	U	001-007
S-Butylbenzene	T54	AR	1	µg/l	U	001-007
Styrene	T54	AR	1	µg/l	U	001-007
T-Butylbenzene	T54	AR	1	µg/l	U	001-007
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
m/p ethyl toluene	T54	AR	5	µg/l	U	001-007
n-Butylbenzene	T54	AR	1	µg/l	U	001-007
n-Propylbenzene	T54	AR	1	µg/l	U	001-007
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-007
O Xylene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-007
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-007

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Report Number: 667817-1

Date of Report: 24-Jul-2017

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 003143
Customer Site Reference: Rustington
Date Job Received at Concept: 13-Jul-2017
Date Analysis Started: 13-Jul-2017
Date Analysis Completed: 20-Jul-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept SOPs

All results have been reviewed in accordance with Section 25 of the Concept, Analytical Quality Quality Manual

UKAS TESTING
1549

Report checked and authorised by :
Claire Brown Crociquia
Customer Service Manager

Issued by :
Claire Brown Crociquia
Customer Service Manager

Concept Reference: 667817
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

		Concept Reference	667817 001	667817 002	667817 003	667817 004	667817 005
		Customer Sample Reference	MW1-W3	MW2-W3	MW3-W3	MW4-W3	MW5-W3
		Date Sampled	10-JUL-2017	10-JUL-2017	10-JUL-2017	10-JUL-2017	11-JUL-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Fe (Dissolved)	T281	F	0.005	mg/l	<0.005	(149) <0.050	(149) <0.050	(149) <0.050	(149) <0.050
Mn (Dissolved)	T281	F	0.001	mg/l	**0.71**	**0.019**	(149) <0.010	**1.9**	**3.3**
Total Hardness expressed as CaCO3	T649	F	10	mg/l	**390**	**1700**	**1400**	**630**	**1600**
BOD (ATU)	T264	F	1	mg/l	**2**	**7**	**4**	**9**	**20**
Chemical Oxygen Demand	T221	F	20	mg/l	<20	**770**	**530**	**51**	**490**
pH	T7	F			**7.9**	**7.4**	**7.5**	**7.6**	**7.4**

Concept Reference: 667817
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

		Concept Reference	667817 006	667817 007
		Customer Sample Reference	MW6-W3	MW7-W3
		Date Sampled	11-JUL-2017	11-JUL-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Fe (Dissolved)	T281	F	0.005	mg/l	(149) <0.050	(149) <0.050
Mn (Dissolved)	T281	F	0.001	mg/l	(149) <0.010	(149) <0.010
Total Hardness expressed as CaCO3	T649	F	10	mg/l	**960**	**1100**
BOD (ATU)	T264	F	1	mg/l	**8**	**3**
Chemical Oxygen Demand	T221	F	20	mg/l	**240**	**170**
pH	T7	F			**11.5**	**11.3**

Concept Reference: 667817
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

		Concept Reference	667817 001	667817 002	667817 003	667817 004	667817 005
		Customer Sample Reference	MW1-W3	MW2-W3	MW3-W3	MW4-W3	MW5-W3
		Date Sampled	10-JUL-2017	10-JUL-2017	10-JUL-2017	10-JUL-2017	11-JUL-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Benzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	**4800**	**7000**
EthylBenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	**1200**
M/P Xylene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	**160**	**3600**
O Xylene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	**150**	**1600**
Toluene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	**110**	**7800**
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	<0.020	(110) <0.10	(110) <0.10	**0.97**	**0.98**
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	(110) <0.10	(110) <0.10	**4.0**	**4.4**
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020	(110) <0.10	(110) <0.10	**0.68**	**0.61**
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	(110) <0.10	(110) <0.10	**0.11**	**3.2**
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020	(110) <0.10	(110) <0.10	**0.50**	**0.22**
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020	(110) <0.10	(110) <0.10	**1.4**	**7.3**
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	**0.03**	**0.04**
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	<0.01	**0.04**	**0.01**	**0.30**	**3.0**
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	<0.01	**0.02**	**0.01**	**0.07**	**0.13**
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	**0.02**	**0.52**	**0.10**	**0.36**	**2.6**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01	**0.04**
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	**0.05**	**0.34**	**0.08**	**0.23**	**1.0**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	<0.01	**0.27**	<0.01	**0.06**	**0.46**

Concept Reference: 667817
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

					Concept Reference	667817 006	667817 007
					Customer Sample Reference	MW6-W3	MW7-W3
					Date Sampled	11-JUL-2017	11-JUL-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Benzene	T54	AR	1	µg/l		<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1
M/P Xylene	T54	AR	1	µg/l		**2**	<1
O Xylene	T54	AR	1	µg/l		**1**	<1
Toluene	T54	AR	1	µg/l		**1**	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l		**0.02**	**0.01**
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l		**0.01**	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l		**0.23**	**0.07**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l		**0.25**	**0.14**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l		**0.18**	**0.10**

Concept Reference: 667817
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

		Concept Reference	667817 001	667817 002	667817 003	667817 004	667817 005
		Customer Sample Reference	MW1-W3	MW2-W3	MW3-W3	MW4-W3	MW5-W3
		Date Sampled	10-JUL-2017	10-JUL-2017	10-JUL-2017	10-JUL-2017	11-JUL-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Benzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	4800	7000
1,2-Dichloropropane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Bromodichloromethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Dibromochloromethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
n-Butylbenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	15	24
O Xylene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	150	1600
1,2,3-Trichloropropane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
2-Chlorotoluene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Bromoform	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Chlorobenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Tetrachloroethene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Trichloroethene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Vinyl chloride	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	95	140
2,2-Dichloropropane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Dibromomethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Isopropyl benzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	38
EthylBenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	1200
Toluene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	110	7800
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Bromochloromethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Carbon tetrachloride	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Chloroethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Chloromethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Styrene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
4-Chlorotoluene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	2	<1
Chloroform	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
T-Butylbenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	6	<1
1,2-dibromoethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	<5	(110) <10	(110) <10	181	153
Bromobenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
n-Propylbenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	67
1,1-Dichloropropene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Bromomethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
m/p ethyl toluene	T54	AR	5	µg/l	<5	(110) <10	(110) <10	79	454
p-Isopropyltoluene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	2
M/P Xylene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	160	3600
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	(110) <10	(110) <10	<1	<1

Concept Reference: 667817
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	**667817 001**	**667817 002**	**667817 003**	**667817 004**	**667817 005**
					Customer Sample Reference	**MW1-W3**	**MW2-W3**	**MW3-W3**	**MW4-W3**	**MW5-W3**
					Date Sampled	**10-JUL-2017**	**10-JUL-2017**	**10-JUL-2017**	**10-JUL-2017**	**11-JUL-2017**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
S-Butylbenzene	T54	AR	1	µg/l		<1	(110) <10	(110) <10	<1	4



Concept Reference: 667817
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

Concept Reference	**667817 006**	**667817 007**
Customer Sample Reference	**MW6-W3**	**MW7-W3**
Date Sampled	**11-JUL-2017**	**11-JUL-2017**

Determinand	Method	Test Sample	LOD	Units		
Benzene	T54	AR	1	µg/l	<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l	<1	<1
Bromodichloromethane	T54	AR	1	µg/l	<1	<1
Dibromochloromethane	T54	AR	1	µg/l	<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l	<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l	<1	<1
n-Butylbenzene	T54	AR	1	µg/l	<1	<1
O Xylene	T54	AR	1	µg/l	1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l	<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l	<1	<1
2-Chlorotoluene	T54	AR	1	µg/l	<1	<1
Bromoform	T54	AR	1	µg/l	<1	<1
Chlorobenzene	T54	AR	1	µg/l	<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l	<1	<1
Tetrachloroethene	T54	AR	1	µg/l	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	<1	<1
Trichloroethene	T54	AR	1	µg/l	<1	<1
Vinyl chloride	T54	AR	1	µg/l	<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	<1	<1
Dibromomethane	T54	AR	1	µg/l	<1	<1
Isopropyl benzene	T54	AR	1	µg/l	<1	<1
EthylBenzene	T54	AR	1	µg/l	<1	<1
Toluene	T54	AR	1	µg/l	1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l	<1	<1
Bromochloromethane	T54	AR	1	µg/l	<1	<1
Carbon tetrachloride	T54	AR	1	µg/l	<1	<1
Chloroethane	T54	AR	1	µg/l	<1	<1
Chloromethane	T54	AR	1	µg/l	<1	<1
Styrene	T54	AR	1	µg/l	<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l	<1	<1
4-Chlorotoluene	T54	AR	1	µg/l	<1	<1
Chloroform	T54	AR	1	µg/l	<1	<1
T-Butylbenzene	T54	AR	1	µg/l	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	1	<1
1,2-dibromoethane	T54	AR	1	µg/l	<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	<5	<5
Bromobenzene	T54	AR	1	µg/l	<1	<1
n-Propylbenzene	T54	AR	1	µg/l	<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l	<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l	<1	<1
Bromomethane	T54	AR	1	µg/l	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l	<1	<1
m/p ethyl toluene	T54	AR	5	µg/l	<5	<5
p-Isopropyltoluene	T54	AR	1	µg/l	<1	<1
M/P Xylene	T54	AR	1	µg/l	2	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	<1

Concept Reference: 667817
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

Concept Reference	**667817 006**	**667817 007**
Customer Sample Reference	**MW6-W3**	**MW7-W3**
Date Sampled	**11-JUL-2017**	**11-JUL-2017**

Determinand	Method	Test Sample	LOD	Units		
S-Butylbenzene	T54	AR	1	µg/l	<1	<1

Index to symbols used in 667817-1

Value	Description
F	Filtered
AR	As Received
110	LOD raised due to low internal standard recovery.
149	LOD raised due to high dissolved solids
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T7	Probe
T54	GC/MS (Headspace)
T219	GC/FID (SE)
T281	ICP/MS (Filtered)
T264	Probe (Incubation Carbonaceous) (5 Days)
T221	Colorimetry (CE)
T649	ICP/OES (Calc)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-007
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-007
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-007
BOD (ATU)	T264	F	1	mg/l	N	001-007
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-007
pH	T7	F			U	001-007
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-007
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-007
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,2-dibromoethane	T54	AR	1	µg/l	N	001-007
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-007
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
2-Chlorotoluene	T54	AR	1	µg/l	U	001-007
4-Chlorotoluene	T54	AR	1	µg/l	U	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Benzene	T54	AR	1	µg/l	U	001-007
Bromobenzene	T54	AR	1	µg/l	U	001-007
Bromochloromethane	T54	AR	1	µg/l	U	001-007
Bromodichloromethane	T54	AR	1	µg/l	U	001-007
Bromoform	T54	AR	1	µg/l	N	001-007
Bromomethane	T54	AR	1	µg/l	U	001-007
Carbon tetrachloride	T54	AR	1	µg/l	U	001-007
Chlorobenzene	T54	AR	1	µg/l	U	001-007
Chloroethane	T54	AR	1	µg/l	U	001-007
Chloroform	T54	AR	1	µg/l	U	001-007
Chloromethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Dibromochloromethane	T54	AR	1	µg/l	U	001-007
Dibromomethane	T54	AR	1	µg/l	U	001-007
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-007
EthylBenzene	T54	AR	1	µg/l	U	001-007
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-007
Isopropyl benzene	T54	AR	1	µg/l	U	001-007
M/P Xylene	T54	AR	1	µg/l	U	001-007
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-007
O Xylene	T54	AR	1	µg/l	U	001-007
S-Butylbenzene	T54	AR	1	µg/l	U	001-007
Styrene	T54	AR	1	µg/l	U	001-007
T-Butylbenzene	T54	AR	1	µg/l	U	001-007
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
m/p ethyl toluene	T54	AR	5	µg/l	U	001-007
n-Butylbenzene	T54	AR	1	µg/l	U	001-007
n-Propylbenzene	T54	AR	1	µg/l	U	001-007
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-007

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Report Number: 671669-1

Date of Report: 02-Aug-2017

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 003220
Customer Site Reference: Rustington
Date Job Received at Concept: 28-Jul-2017
Date Analysis Started: 28-Jul-2017
Date Analysis Completed: 02-Aug-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

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Tests covered by this certificate were conducted in accordance with Concept SOPs

All results have been reviewed in accordance with Section 25 of the Concept, Analytical Quality Quality Manual

UKAS TESTING
1549

Report checked and authorised by :
Aislinn Arthey
Trainee Project Manager

Issued by :
Aislinn Arthey
Trainee Project Manager

Concept Reference: 671669
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

					Concept Reference	671669 001	671669 002	671669 003
					Customer Sample Reference	MW4 - W4	MW5 - W4	MW6 - W4
					Date Sampled	25-JUL-2017	25-JUL-2017	25-JUL-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Fe (Dissolved)	T281	F	0.005	mg/l		0.075	0.050	(149) <0.025
Mn (Dissolved)	T281	F	0.001	mg/l		1.5	5.7	0.48
Total Hardness expressed as CaCO3	T649	F	10	mg/l		530	1600	1500
BOD (ATU)	T264	F	1	mg/l		15	90	6
Chemical Oxygen Demand	T221	F	20	mg/l		38	510	120
pH	T7	F				8.0	7.5	8.2

Concept Reference: 671669
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

					Concept Reference	671669 001	671669 002	671669 003
					Customer Sample Reference	MW4 - W4	MW5 - W4	MW6 - W4
					Date Sampled	25-JUL-2017	25-JUL-2017	25-JUL-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Benzene	T54	AR	1	µg/l		3400	9500	<1
Toluene	T54	AR	1	µg/l		140	12000	<1
EthylBenzene	T54	AR	1	µg/l		<1	2000	<1
M/P Xylene	T54	AR	1	µg/l		640	6100	<1
O Xylene	T54	AR	1	µg/l		170	2700	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l		0.85	2.5	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l		3.1	5.7	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l		0.33	2.1	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l		0.14	4.2	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l		<0.020	1.5	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l		2.2	12	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l		0.02	0.07	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l		0.19	1.9	<0.01
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l		0.03	0.09	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l		0.17	1.8	0.13
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l		<0.01	0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l		0.11	0.64	0.32
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l		0.12	0.35	0.25

Concept Reference: 671669
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	671669 001	671669 002	671669 003
					Customer Sample Reference	MW4 - W4	MW5 - W4	MW6 - W4
					Date Sampled	25-JUL-2017	25-JUL-2017	25-JUL-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		210	<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		2	6	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		182	280	<5
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1	1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	2000	<1
Toluene	T54	AR	1	µg/l		140	12000	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	<1
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	67	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		110	290	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		14	<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	9	<1
n-Propylbenzene	T54	AR	1	µg/l		<1	140	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1	<1
M/P Xylene	T54	AR	1	µg/l		640	6100	<1
O Xylene	T54	AR	1	µg/l		170	2700	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1	<1
Styrene	T54	AR	1	µg/l		<1	<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		153	973	<5
Benzene	T54	AR	1	µg/l		3400	9500	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		100	890	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	88	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1

Concept Reference: 671669
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

Concept Reference	671669 001	671669 002	671669 003
Customer Sample Reference	MW4 - W4	MW5 - W4	MW6 - W4
Date Sampled	25-JUL-2017	25-JUL-2017	25-JUL-2017

Determinand	Method	Test Sample	LOD	Units			
n-Butylbenzene	T54	AR	1	µg/l	19	70	<1

Index to symbols used in 671669-1

Value	Description
AR	As Received
F	Filtered
149	LOD raised due to high dissolved solids
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T54	GC/MS (Headspace)
T7	Probe
T221	Colorimetry (CE)
T649	ICP/OES (Calc)
T281	ICP/MS (Filtered)
T219	GC/FID (SE)
T264	Probe (Incubation Carbonaceous) (5 Days)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-003
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-003
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-003
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-003
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-003
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-003
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-003
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-003
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-003
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-003
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-003
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-003
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-003
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-003
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-003
1,2-dibromoethane	T54	AR	1	µg/l	N	001-003
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-003
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-003
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-003
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-003
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-003
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-003
2-Chlorotoluene	T54	AR	1	µg/l	U	001-003
4-Chlorotoluene	T54	AR	1	µg/l	U	001-003
Bromobenzene	T54	AR	1	µg/l	U	001-003
Bromochloromethane	T54	AR	1	µg/l	U	001-003
Bromodichloromethane	T54	AR	1	µg/l	U	001-003
Bromoform	T54	AR	1	µg/l	N	001-003
Bromomethane	T54	AR	1	µg/l	U	001-003
Carbon tetrachloride	T54	AR	1	µg/l	U	001-003
Chlorobenzene	T54	AR	1	µg/l	U	001-003

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Chloroethane	T54	AR	1	µg/l	U	001-003
Chloroform	T54	AR	1	µg/l	U	001-003
Chloromethane	T54	AR	1	µg/l	U	001-003
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-003
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-003
Dibromochloromethane	T54	AR	1	µg/l	U	001-003
Dibromomethane	T54	AR	1	µg/l	U	001-003
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-003
EthylBenzene	T54	AR	1	µg/l	U	001-003
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-003
Isopropyl benzene	T54	AR	1	µg/l	U	001-003
M/P Xylene	T54	AR	1	µg/l	U	001-003
O Xylene	T54	AR	1	µg/l	U	001-003
S-Butylbenzene	T54	AR	1	µg/l	U	001-003
Styrene	T54	AR	1	µg/l	U	001-003
T-Butylbenzene	T54	AR	1	µg/l	U	001-003
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-003
Tetrachloroethene	T54	AR	1	µg/l	U	001-003
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-003
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-003
Trichloroethene	T54	AR	1	µg/l	U	001-003
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-003
Vinyl chloride	T54	AR	1	µg/l	U	001-003
m/p ethyl toluene	T54	AR	5	µg/l	U	001-003
n-Butylbenzene	T54	AR	1	µg/l	U	001-003
n-Propylbenzene	T54	AR	1	µg/l	U	001-003
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-003
Benzene	T54	AR	1	µg/l	U	001-003
Toluene	T54	AR	1	µg/l	U	001-003
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-003
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-003
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-003
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-003
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-003
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-003
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-003
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-003
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-003
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-003
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-003
BOD (ATU)	T264	F	1	mg/l	N	001-003
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-003
pH	T7	F			U	001-003

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Tel : 01376 560120
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Report Number: 671001-1

Date of Report: 02-Aug-2017

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 003220
Customer Site Reference: Rustington
Date Job Received at Concept: 26-Jul-2017
Date Analysis Started: 26-Jul-2017
Date Analysis Completed: 02-Aug-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept SOPs

All results have been reviewed in accordance with Section 25 of the Concept, Analytical Quality Quality Manual

UKAS TESTING
1549

Report checked and authorised by :
Aislinn Arthey
Trainee Project Manager

Issued by :
Aislinn Arthey
Trainee Project Manager

Concept Reference: 671001
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

	Concept Reference	671001 001	671001 002	671001 003	671001 004
	Customer Sample Reference	MW1-W4	MW2-W4	MW3-W4	MW7-W4
	Date Sampled	24-JUL-2017	24-JUL-2017	24-JUL-2017	24-JUL-2017
Determinand	**Method** / **Test Sample** / **LOD** / **Units**				
Fe (Dissolved)	T281 / F / 0.005 / mg/l	(149) <0.005	(149) <0.050	(149) <0.13	(149) <0.025
Mn (Dissolved)	T281 / F / 0.001 / mg/l	**0.81**	**0.060**	(149) <0.025	(149) <0.005
Total Hardness expressed as CaCO3	T649 / F / 10 / mg/l	**410**	**1500**	**1400**	**1200**
BOD (ATU)	T264 / F / 1 / mg/l	**2**	<1	<1	<1
Chemical Oxygen Demand	T221 / F / 20 / mg/l	<20	**430**	**460**	**90**
pH	T7 / F	**7.7**	**7.3**	**7.4**	**9.2**

Concept Reference: 671001
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

	Concept Reference	671001 001	671001 002	671001 003	671001 004
	Customer Sample Reference	MW1-W4	MW2-W4	MW3-W4	MW7-W4
	Date Sampled	24-JUL-2017	24-JUL-2017	24-JUL-2017	24-JUL-2017
Determinand	**Method** / **Test Sample** / **LOD** / **Units**				
Benzene	T54 / AR / 1 / µg/l	(13) <1	(13) <1	(110,2,13) <10	(13) <1
Toluene	T54 / AR / 1 / µg/l	<1	<1	(110,2) <10	<1
EthylBenzene	T54 / AR / 1 / µg/l	<1	<1	(110,2) <10	<1
M/P Xylene	T54 / AR / 1 / µg/l	<1	<1	(2,110) <10	<1
O Xylene	T54 / AR / 1 / µg/l	<1	<1	(2,110) <10	<1
Methyl tert-Butyl Ether	T54 / AR / 1 / µg/l	**1**	**2**	**50**	<1
TPH (C5-C6 aliphatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	(110,2) <0.10	<0.020
TPH (C6-C7 aromatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	(110,2) <0.10	<0.020
TPH (C6-C8 aliphatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	(110,2) <0.10	<0.020
TPH (C7-C8 aromatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	(110,2) <0.10	<0.020
TPH (C8-C10 aliphatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	(2,110) <0.10	<0.020
TPH (C8-C10 aromatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	(110,2) <0.10	<0.020
TPH (C10-C12 aliphatic)	T219 / AR / 0.01 / mg/l	<0.01	<0.01	**0.01**	<0.01
TPH (C10-C12 aromatic)	T219 / AR / 0.01 / mg/l	<0.01	**0.05**	<0.01	<0.01
TPH (C12-C16 aliphatic)	T219 / AR / 0.01 / mg/l	<0.01	<0.01	<0.01	<0.01
TPH (C12-C16 aromatic)	T219 / AR / 0.01 / mg/l	**0.03**	**0.71**	**0.15**	**0.11**
TPH (C16-C21 aliphatic)	T219 / AR / 0.01 / mg/l	<0.01	<0.01	<0.01	<0.01
TPH (C16-C21 aromatic)	T219 / AR / 0.01 / mg/l	**0.03**	**0.39**	**0.12**	**0.24**
TPH (C21-C35 aliphatic)	T219 / AR / 0.01 / mg/l	<0.01	<0.01	<0.01	<0.01
TPH (C21-C35 aromatic)	T219 / AR / 0.01 / mg/l	**0.03**	**0.41**	**0.04**	**0.28**

Concept Reference: 671001
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	671001 001	671001 002	671001 003	671001 004
					Customer Sample Reference	MW1-W4	MW2-W4	MW3-W4	MW7-W4
					Date Sampled	24-JUL-2017	24-JUL-2017	24-JUL-2017	24-JUL-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
Bromoform	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
Chloromethane	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
Styrene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
n-Butylbenzene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
O Xylene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5	(2,110) <50	<5
Methyl tert-Butyl Ether	T54	AR	1	µg/l		1	2	50	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
Toluene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5	(2,110) <50	<5
Chloroform	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	1	(2,110) <10	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
Bromomethane	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Chloroethane	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Benzene	T54	AR	1	µg/l		(13) <1	(13) <1	(110,2,13) <10	(13) <1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	(2,110) <10	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1	(110,2) <10	<1

Concept Reference: 671001
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

	Concept Reference	671001 001	671001 002	671001 003	671001 004
	Customer Sample Reference	MW1-W4	MW2-W4	MW3-W4	MW7-W4
	Date Sampled	24-JUL-2017	24-JUL-2017	24-JUL-2017	24-JUL-2017
Determinand / Method / Test Sample / LOD / Units					
n-Propylbenzene / T54 / AR / 1 / µg/l		<1	<1	(2,110) <10	<1

Index to symbols used in 671001-1

Value	Description
AR	As Received
F	Filtered
149	LOD raised due to high dissolved solids
2	LOD Raised Due to Matrix Interference
110	LOD raised due to low internal standard recovery.
13	Results have been blank corrected.
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T7	Probe
T219	GC/FID (SE)
T649	ICP/OES (Calc)
T54	GC/MS (Headspace)
T221	Colorimetry (CE)
T264	Probe (Incubation Carbonaceous) (5 Days)
T281	ICP/MS (Filtered)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-004
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-004
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-004
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-004
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-004
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-004
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-004
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-004
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-004
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-004
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-004
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-004
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-004
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-004
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-004
1,2-dibromoethane	T54	AR	1	µg/l	N	001-004
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-004
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-004
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-004
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-004
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-004
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-004
2-Chlorotoluene	T54	AR	1	µg/l	U	001-004
4-Chlorotoluene	T54	AR	1	µg/l	U	001-004
Bromobenzene	T54	AR	1	µg/l	U	001-004
Bromochloromethane	T54	AR	1	µg/l	U	001-004
Bromodichloromethane	T54	AR	1	µg/l	U	001-004
Bromoform	T54	AR	1	µg/l	N	001-004

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Bromomethane	T54	AR	1	µg/l	U	001-004
Carbon tetrachloride	T54	AR	1	µg/l	U	001-004
Chlorobenzene	T54	AR	1	µg/l	U	001-004
Chloroethane	T54	AR	1	µg/l	U	001-004
Chloroform	T54	AR	1	µg/l	U	001-004
Chloromethane	T54	AR	1	µg/l	U	001-004
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-004
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-004
Dibromochloromethane	T54	AR	1	µg/l	U	001-004
Dibromomethane	T54	AR	1	µg/l	U	001-004
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-004
EthylBenzene	T54	AR	1	µg/l	U	001-004
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-004
Isopropyl benzene	T54	AR	1	µg/l	U	001-004
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-004
O Xylene	T54	AR	1	µg/l	U	001-004
S-Butylbenzene	T54	AR	1	µg/l	U	001-004
Styrene	T54	AR	1	µg/l	U	001-004
T-Butylbenzene	T54	AR	1	µg/l	U	001-004
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-004
Tetrachloroethene	T54	AR	1	µg/l	U	001-004
Toluene	T54	AR	1	µg/l	U	001-004
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-004
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-004
Trichloroethene	T54	AR	1	µg/l	U	001-004
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-004
Vinyl chloride	T54	AR	1	µg/l	U	001-004
m/p ethyl toluene	T54	AR	5	µg/l	U	001-004
n-Butylbenzene	T54	AR	1	µg/l	U	001-004
n-Propylbenzene	T54	AR	1	µg/l	U	001-004
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-004
Benzene	T54	AR	1	µg/l	U	001-004
M/P Xylene	T54	AR	1	µg/l	U	001-004
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-004
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-004
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-004
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-004
BOD (ATU)	T264	F	1	mg/l	N	001-004
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-004
pH	T7	F			U	001-004

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Tel : 01376 560120
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Report Number: 674698-1

Date of Report: 16-Aug-2017

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 003305
Customer Site Reference: Rustington
Date Job Received at Concept: 10-Aug-2017
Date Analysis Started: 10-Aug-2017
Date Analysis Completed: 16-Aug-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked and authorised by :
Chelsea Entwistle
Senior Customer Service Advisor

Issued by :
Chelsea Entwistle
Senior Customer Service Advisor

Concept Reference: 674698
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

				Concept Reference	674698 001	674698 002	674698 003	674698 004	674698 005
				Customer Sample Reference	MW1-W5	MW2-W5	MW3-W5	MW4-W5	MW5-W5
				Date Sampled	07-AUG-2017	07-AUG-2017	07-AUG-2017	08-AUG-2017	08-AUG-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Fe (Dissolved)	T281	F	0.005	mg/l	**0.015**	(149) <0.050	(149) <0.050	**0.097**	**0.16**
Mn (Dissolved)	T281	F	0.001	mg/l	**1.1**	**0.019**	**0.011**	**1.1**	**2.0**
Total Hardness expressed as CaCO3	T649	F	10	mg/l	**390**	**1200**	**1300**	**370**	**1500**
BOD (ATU)	T264	F	1	mg/l	**10**	**7**	**4**	**17**	**32**
Chemical Oxygen Demand	T221	F	20	mg/l	**27**	**340**	**500**	**46**	**200**
pH	T7	F			**7.80**	**7.30**	**7.40**	**7.70**	**7.40**

Concept Reference: 674698
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

				Concept Reference	674698 006	674698 007
				Customer Sample Reference	MW6-W5	MW7-W5
				Date Sampled	08-AUG-2017	07-AUG-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Fe (Dissolved)	T281	F	0.005	mg/l	**0.065**	**0.009**
Mn (Dissolved)	T281	F	0.001	mg/l	**0.34**	<0.001
Total Hardness expressed as CaCO3	T649	F	10	mg/l	**1300**	**1000**
BOD (ATU)	T264	F	1	mg/l	**8**	**7**
Chemical Oxygen Demand	T221	F	20	mg/l	**73**	**70**
pH	T7	F			**7.90**	**9.10**

Concept Reference: 674698
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

		Concept Reference	674698 001	674698 002	674698 003	674698 004	674698 005
		Customer Sample Reference	MW1-W5	MW2-W5	MW3-W5	MW4-W5	MW5-W5
		Date Sampled	07-AUG-2017	07-AUG-2017	07-AUG-2017	08-AUG-2017	08-AUG-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
1,1,2-Trichloroethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Benzene	T54	AR	1	µg/l	<1	1	(110) <10	1300	1500
Bromomethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l	<1	<1	(110) <10	6	6
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
4-Chlorotoluene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Chloromethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
S-Butylbenzene	T54	AR	1	µg/l	<1	<1	(110) <10	13	6
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Bromoform	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1	(110) <10	28	2800
m/p ethyl toluene	T54	AR	5	µg/l	<5	<5	(110) <50	178	375
n-Butylbenzene	T54	AR	1	µg/l	<1	<1	(110) <10	48	29
1,1-Dichloroethylene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	<1	2	(110) <10	480	120
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	4	57	<1	<1
Styrene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
T-Butylbenzene	T54	AR	1	µg/l	<1	<1	(110) <10	29	24
Vinyl chloride	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Bromobenzene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Bromodichloromethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Carbon tetrachloride	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Chlorobenzene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Chloroform	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Dibromochloromethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
EthylBenzene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	32
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
n-Propylbenzene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	290
1,3-Dichloropropane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
2-Chlorotoluene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Bromochloromethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
O Xylene	T54	AR	1	µg/l	<1	<1	(110) <10	76	820
Tertiary amyl methyl ether	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Tetrachloroethene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Trichloroethene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,2-dibromoethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	<1	<1	(110) <10	110	140
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	<5	<5	(110) <50	158	134
Chloroethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Dibromomethane	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	<1
Isopropyl benzene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	2

Concept Reference: 674698
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

				Concept Reference	674698 001	674698 002	674698 003	674698 004	674698 005
				Customer Sample Reference	MW1-W5	MW2-W5	MW3-W5	MW4-W5	MW5-W5
				Date Sampled	07-AUG-2017	07-AUG-2017	07-AUG-2017	08-AUG-2017	08-AUG-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
M/P Xylene	T54	AR	1	µg/l	<1	<1	(110) <10	2000	1100



Concept Reference: 674698
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	674698 006	674698 007
					Customer Sample Reference	MW6-W5	MW7-W5
					Date Sampled	08-AUG-2017	07-AUG-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1
Benzene	T54	AR	1	µg/l		<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1
Toluene	T54	AR	1	µg/l		<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5
n-Butylbenzene	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
Styrene	T54	AR	1	µg/l		<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
n-Propylbenzene	T54	AR	1	µg/l		<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5
Chloroethane	T54	AR	1	µg/l		<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1

Concept Reference: 674698
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

Concept Reference	674698 006	674698 007
Customer Sample Reference	MW6-W5	MW7-W5
Date Sampled	08-AUG-2017	07-AUG-2017

Determinand	Method	Test Sample	LOD	Units		
M/P Xylene	T54	AR	1	µg/l	<1	<1

Concept Reference: 674698
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

Concept Reference					674698 001	674698 002	674698 003	674698 004	674698 005
Customer Sample Reference					MW1-W5	MW2-W5	MW3-W5	MW4-W5	MW5-W5
Date Sampled					07-AUG-2017	07-AUG-2017	07-AUG-2017	08-AUG-2017	08-AUG-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Benzene	T54	AR	1	µg/l	<1	1	(110) <10	1300	1500
EthylBenzene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	32
M/P Xylene	T54	AR	1	µg/l	<1	<1	(110) <10	2000	1100
O Xylene	T54	AR	1	µg/l	<1	<1	(110) <10	76	820
Toluene	T54	AR	1	µg/l	<1	<1	(110) <10	28	2800
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	4	57	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	(110) <0.050	3.2	1.0
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	(110) <0.050	0.65	1.4
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	(110) <0.050	4.2	0.61
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	(110) <0.050	0.028	2.4
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	(110) <0.050	3.6	0.32
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	(110) <0.020	2.3	4.2
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01	0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01	0.07
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	0.01	<0.01	0.03
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	<0.01	<0.01	0.26	<0.01	0.15
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	0.02	<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	0.02	<0.01	0.17	<0.01	0.13
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	0.04	<0.01	0.01	<0.01	0.03
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	0.01	<0.01	0.12	<0.01	0.11

Concept Reference: 674698
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

					Concept Reference	674698 006	674698 007
					Customer Sample Reference	MW6-W5	MW7-W5
					Date Sampled	08-AUG-2017	07-AUG-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Benzene	T54	AR	1	µg/l		<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1
Toluene	T54	AR	1	µg/l		<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l		**0.03**	**0.02**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l		**0.10**	**0.09**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l		**0.02**	**0.03**
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l		**0.12**	**0.11**

Index to symbols used in 674698-1

Value	Description
AR	As Received
F	Filtered
149	LOD raised due to high dissolved solids
110	LOD raised due to low internal standard recovery.
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T54	GC/MS (Headspace)
T281	ICP/MS (Filtered)
T649	ICP/OES (Calc)
T219	GC/FID (SE)
T264	Probe (Incubation Carbonaceous) (5 Days)
T7	Probe
T221	Colorimetry (CE)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-007
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-007
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,2-dibromoethane	T54	AR	1	µg/l	N	001-007
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-007
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
2-Chlorotoluene	T54	AR	1	µg/l	U	001-007
4-Chlorotoluene	T54	AR	1	µg/l	U	001-007
Benzene	T54	AR	1	µg/l	U	001-007
Bromobenzene	T54	AR	1	µg/l	U	001-007
Bromochloromethane	T54	AR	1	µg/l	U	001-007
Bromodichloromethane	T54	AR	1	µg/l	U	001-007
Bromoform	T54	AR	1	µg/l	N	001-007
Bromomethane	T54	AR	1	µg/l	U	001-007
Carbon tetrachloride	T54	AR	1	µg/l	U	001-007
Chlorobenzene	T54	AR	1	µg/l	U	001-007
Chloroethane	T54	AR	1	µg/l	U	001-007
Chloroform	T54	AR	1	µg/l	U	001-007
Chloromethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Dibromochloromethane	T54	AR	1	µg/l	U	001-007
Dibromomethane	T54	AR	1	µg/l	U	001-007
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-007
EthylBenzene	T54	AR	1	µg/l	U	001-007
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-007
Isopropyl benzene	T54	AR	1	µg/l	U	001-007
M/P Xylene	T54	AR	1	µg/l	U	001-007
O Xylene	T54	AR	1	µg/l	U	001-007
S-Butylbenzene	T54	AR	1	µg/l	U	001-007
Styrene	T54	AR	1	µg/l	U	001-007
T-Butylbenzene	T54	AR	1	µg/l	U	001-007
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
m/p ethyl toluene	T54	AR	5	µg/l	U	001-007
n-Butylbenzene	T54	AR	1	µg/l	U	001-007
n-Propylbenzene	T54	AR	1	µg/l	U	001-007
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-007
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-007
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-007
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-007
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-007
BOD (ATU)	T264	F	1	mg/l	N	001-007
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
pH	T7	F			U	001-007



CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Report Number: 677736-1

Date of Report: 31-Aug-2017

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 003378
Customer Site Reference: Rustington
Date Job Received at Concept: 24-Aug-2017
Date Analysis Started: 25-Aug-2017
Date Analysis Completed: 31-Aug-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

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Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked and authorised by :
Chelsea Entwistle
Senior Customer Service Advisor

Issued by :
Chelsea Entwistle
Senior Customer Service Advisor

Concept Reference: 677736
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

	Concept Reference	677736 001	677736 002	677736 003	677736 004	677736 005
	Customer Sample Reference	MW1-W6	MW2-W6	MW3-W6	MW4-W6	MW5-W6
	Date Sampled	21-AUG-2017	21-AUG-2017	21-AUG-2017	21-AUG-2017	21-AUG-2017
Determinand	Method / Test Sample / LOD / Units					
Fe (Dissolved)	T281 / F / 0.005 / mg/l	0.008	0.062	0.14	0.18	0.15
Mn (Dissolved)	T281 / F / 0.001 / mg/l	0.73	0.063	(149) <0.010	1.3	0.57
Total Hardness expressed as CaCO3	T649 / F / 10 / mg/l	400	1300	1400	340	1300
BOD (ATU)	T264 / F / 1 / mg/l	9	7	4	15	13
Chemical Oxygen Demand	T221 / F / 20 / mg/l	25	240	290	73	110
pH	T7 / F	7.50	7.00	7.10	7.80	7.80

Concept Reference: 677736
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

	Concept Reference	677736 006	677736 007
	Customer Sample Reference	MW6-W6	MW7-W6
	Date Sampled	21-AUG-2017	21-AUG-2017
Determinand	Method / Test Sample / LOD / Units		
Fe (Dissolved)	T281 / F / 0.005 / mg/l	0.41	0.059
Mn (Dissolved)	T281 / F / 0.001 / mg/l	0.14	<0.001
Total Hardness expressed as CaCO3	T649 / F / 10 / mg/l	1400	860
BOD (ATU)	T264 / F / 1 / mg/l	7	3
Chemical Oxygen Demand	T221 / F / 20 / mg/l	63	67
pH	T7 / F	7.90	11.2

Concept Reference: 677736
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

	Concept Reference	677736 001	677736 002	677736 003	677736 004	677736 005
	Customer Sample Reference	MW1-W6	MW2-W6	MW3-W6	MW4-W6	MW5-W6
	Date Sampled	21-AUG-2017	21-AUG-2017	21-AUG-2017	21-AUG-2017	21-AUG-2017
Determinand	Method / Test Sample / LOD / Units					
Benzene	T54 / AR / 1 / µg/l	<1	<1	(110) <10	220	(110) <10
EthylBenzene	T54 / AR / 1 / µg/l	<1	<1	(110) <10	<1	(110) <10
M/P Xylene	T54 / AR / 1 / µg/l	<1	<1	(110) <10	130	(110) <10
O Xylene	T54 / AR / 1 / µg/l	<1	<1	(110) <10	52	(110) <10
Toluene	T54 / AR / 1 / µg/l	<1	<1	(110) <10	6	(110) <10
Methyl tert-Butyl Ether	T54 / AR / 1 / µg/l	<1	4	(110) <10	<1	100
TPH (C5-C6 aliphatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	(110) <0.10	0.51	(110) <0.10
TPH (C6-C7 aromatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	(110) <0.10	0.22	(110) <0.10
TPH (C6-C8 aliphatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	(110) <0.10	0.19	(110) <0.10
TPH (C7-C8 aromatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	(110) <0.10	<0.020	(110) <0.10
TPH (C8-C10 aliphatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	(110) <0.10	<0.020	(110) <0.10
TPH (C8-C10 aromatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	(110) <0.10	0.50	(110) <0.10
TPH (C10-C12 aliphatic)	T219 / AR / 0.01 / mg/l	<0.01	<0.01	<0.01	0.02	<0.01
TPH (C10-C12 aromatic)	T219 / AR / 0.01 / mg/l	<0.01	0.07	0.03	0.07	0.02
TPH (C12-C16 aliphatic)	T219 / AR / 0.01 / mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C12-C16 aromatic)	T219 / AR / 0.01 / mg/l	<0.01	0.82	0.36	0.08	0.12
TPH (C16-C21 aliphatic)	T219 / AR / 0.01 / mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C16-C21 aromatic)	T219 / AR / 0.01 / mg/l	<0.01	0.46	0.18	0.11	0.23
TPH (C21-C35 aliphatic)	T219 / AR / 0.01 / mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C21-C35 aromatic)	T219 / AR / 0.01 / mg/l	0.01	0.36	0.12	0.14	0.18

Concept Reference: 677736
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

				Concept Reference	**677736 006**	**677736 007**
				Customer Sample Reference	**MW6-W6**	**MW7-W6**
				Date Sampled	**21-AUG-2017**	**21-AUG-2017**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benzene	T54	AR	1	µg/l	<1	<1
EthylBenzene	T54	AR	1	µg/l	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1
O Xylene	T54	AR	1	µg/l	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	**0.02**	**0.01**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	**0.14**	**0.07**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	**0.13**	**0.07**

Concept Reference: 677736
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	677736 001	677736 002	677736 003	677736 004	677736 005
					Customer Sample Reference	MW1-W6	MW2-W6	MW3-W6	MW4-W6	MW5-W6
					Date Sampled	21-AUG-2017	21-AUG-2017	21-AUG-2017	21-AUG-2017	21-AUG-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
n-Propylbenzene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
O Xylene	T54	AR	1	µg/l		<1	<1	(110) <10	**52**	(110) <10
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	**2**	(110) <10	<1	(110) <10
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Bromobenzene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Bromochloromethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Bromodichloromethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Isopropyl benzene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	**4**	(110) <10	<1	**100**
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5	(110) <10	**107**	(110) <10
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Chloroform	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
n-Butylbenzene	T54	AR	1	µg/l		<1	<1	(110) <10	**12**	(110) <10
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Styrene	T54	AR	1	µg/l		<1	<1	(110) <10	**2**	(110) <10
T-Butylbenzene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Vinyl chloride	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Toluene	T54	AR	1	µg/l		<1	<1	(110) <10	**6**	(110) <10
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
1,2-Dichloropropane	T54	AR	1	µg/l		(62,131) <5	(131,62) <5	(110) <10	(62,131) <5	(110) <10
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Bromoform	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Bromomethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Chlorobenzene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Dibromochloromethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
S-Butylbenzene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Tetrachloroethene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Trichloroethene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5	(110) <10	**26**	(110) <10
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1	(110) <10	**69**	(110) <10
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Chloroethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	**21**
Dibromomethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Benzene	T54	AR	1	µg/l		<1	<1	(110) <10	**220**	(110) <10
EthylBenzene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
M/P Xylene	T54	AR	1	µg/l		<1	<1	(110) <10	**130**	(110) <10
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	(110) <10
Chloromethane	T54	AR	1	µg/l		<1	<1	(110) <10	<1	**24**

Concept Reference: 677736
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

				Concept Reference	**677736 001**	**677736 002**	**677736 003**	**677736 004**	**677736 005**
				Customer Sample Reference	**MW1-W6**	**MW2-W6**	**MW3-W6**	**MW4-W6**	**MW5-W6**
				Date Sampled	**21-AUG-2017**	**21-AUG-2017**	**21-AUG-2017**	**21-AUG-2017**	**21-AUG-2017**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	<1	(110) <10	<1	(110) <10

Concept Reference: 677736
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	677736 006	677736 007
					Customer Sample Reference	MW6-W6	MW7-W6
					Date Sampled	21-AUG-2017	21-AUG-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1
n-Propylbenzene	T54	AR	1	µg/l		<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1
n-Butylbenzene	T54	AR	1	µg/l		<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Styrene	T54	AR	1	µg/l		<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1
Toluene	T54	AR	1	µg/l		<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l	(131,62)	<5	(62,131) <5
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1
Benzene	T54	AR	1	µg/l		<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1

Concept Reference: 677736
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

Concept Reference	**677736 006**	**677736 007**
Customer Sample Reference	**MW6-W6**	**MW7-W6**
Date Sampled	**21-AUG-2017**	**21-AUG-2017**

Determinand	Method	Test Sample	LOD	Units		
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	<1

Index to symbols used in 677736-1

Value	Description
AR	As Received
F	Filtered
149	LOD raised due to high dissolved solids
131	Result is outside of the scope of accreditation due to a QC Failure
110	LOD raised due to low internal standard recovery.
62	LOD was raised due to the method performance of the analytical procedure used
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T219	GC/FID (SE)
T281	ICP/MS (Filtered)
T649	ICP/OES (Calc)
T221	Colorimetry (CE)
T7	Probe
T264	Probe (Incubation Carbonaceous) (5 Days)
T54	GC/MS (Headspace)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-007
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-007
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,2-dibromoethane	T54	AR	1	µg/l	N	001-007
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-007
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
2-Chlorotoluene	T54	AR	1	µg/l	U	001-007
4-Chlorotoluene	T54	AR	1	µg/l	U	001-007
Bromobenzene	T54	AR	1	µg/l	U	001-007
Bromochloromethane	T54	AR	1	µg/l	U	001-007
Bromodichloromethane	T54	AR	1	µg/l	U	001-007
Bromoform	T54	AR	1	µg/l	N	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Bromomethane	T54	AR	1	µg/l	U	001-007
Carbon tetrachloride	T54	AR	1	µg/l	U	001-007
Chlorobenzene	T54	AR	1	µg/l	U	001-007
Chloroethane	T54	AR	1	µg/l	U	001-007
Chloroform	T54	AR	1	µg/l	U	001-007
Chloromethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Dibromochloromethane	T54	AR	1	µg/l	U	001-007
Dibromomethane	T54	AR	1	µg/l	U	001-007
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-007
EthylBenzene	T54	AR	1	µg/l	U	001-007
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-007
Isopropyl benzene	T54	AR	1	µg/l	U	001-007
S-Butylbenzene	T54	AR	1	µg/l	U	001-007
Styrene	T54	AR	1	µg/l	U	001-007
T-Butylbenzene	T54	AR	1	µg/l	U	001-007
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
m/p ethyl toluene	T54	AR	5	µg/l	U	001-007
n-Butylbenzene	T54	AR	1	µg/l	U	001-007
n-Propylbenzene	T54	AR	1	µg/l	U	001-007
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-007
Benzene	T54	AR	1	µg/l	U	001-007
M/P Xylene	T54	AR	1	µg/l	U	001-007
O Xylene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-007
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-007
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-007
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-007
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-007
BOD (ATU)	T264	F	1	mg/l	N	001-007
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-007
pH	T7	F			U	001-007

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Report Number: 682422-1

Date of Report: 26-Sep-2017

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 003487
Customer Site Reference: Rustington
Date Job Received at Concept: 14-Sep-2017
Date Analysis Started: 15-Sep-2017
Date Analysis Completed: 22-Sep-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

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Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked
and authorised by :
Aislinn Arthey
Customer Service Advisor

Issued by :
Claire Brown Crociquia
Customer Service Manager

Concept Reference: 682422
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

	Concept Reference	682422 001	682422 002	682422 003	682422 004	682422 005
	Customer Sample Reference	MW1-W7	MW2-W7	MW3-W7	MW4-W7	MW5-W7
	Date Sampled	11-SEP-2017	11-SEP-2017	11-SEP-2017	12-SEP-2017	11-SEP-2017
Determinand	**Method** / **Test Sample** / **LOD** / **Units**					
Fe (Dissolved)	T281 / F / 0.005 / mg/l	**0.009**	(149) <0.050	(149) <0.050	**0.10**	**0.17**
Mn (Dissolved)	T281 / F / 0.001 / mg/l	**0.54**	**0.056**	**0.013**	**1.2**	**0.67**
Total Hardness expressed as CaCO3	T649 / F / 10 / mg/l	**460**	**1400**	**1500**	**410**	**1400**
BOD (ATU)	T264 / F / 1 / mg/l	**4**	**5**	**4**	**8**	**9**
Chemical Oxygen Demand	T221 / F / 20 / mg/l	<20	**220**	**220**	**59**	**100**
pH	T7 / F	**7.70**	**7.30**	**7.30**	**7.70**	**7.70**

Concept Reference: 682422
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

	Concept Reference	682422 006	682422 007
	Customer Sample Reference	MW6-W7	MW7-W7
	Date Sampled	12-SEP-2017	12-SEP-2017
Determinand	**Method** / **Test Sample** / **LOD** / **Units**		
Fe (Dissolved)	T281 / F / 0.005 / mg/l	(149) <0.025	**0.006**
Mn (Dissolved)	T281 / F / 0.001 / mg/l	**0.019**	**0.001**
Total Hardness expressed as CaCO3	T649 / F / 10 / mg/l	**1400**	**930**
BOD (ATU)	T264 / F / 1 / mg/l	**3**	<1
Chemical Oxygen Demand	T221 / F / 20 / mg/l	**55**	**64**
pH	T7 / F	**8.30**	**10.6**

Concept Reference: 682422
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

	Concept Reference	682422 001	682422 002	682422 003	682422 004	682422 005
	Customer Sample Reference	MW1-W7	MW2-W7	MW3-W7	MW4-W7	MW5-W7
	Date Sampled	11-SEP-2017	11-SEP-2017	11-SEP-2017	12-SEP-2017	11-SEP-2017
Determinand	**Method** / **Test Sample** / **LOD** / **Units**					
Benzene	T54 / AR / 1 / µg/l	<1	<1	<1	**170**	(9) <10
EthylBenzene	T54 / AR / 1 / µg/l	<1	<1	<1	<1	(9) <10
M/P Xylene	T54 / AR / 1 / µg/l	<1	<1	<1	**270**	(9) <10
O Xylene	T54 / AR / 1 / µg/l	<1	<1	<1	**40**	(9) <10
Toluene	T54 / AR / 1 / µg/l	<1	<1	<1	**10**	(9) <10
Methyl tert-Butyl Ether	T54 / AR / 1 / µg/l	<1	**2**	**57**	<1	**12**
TPH (C5-C6 aliphatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	**0.091**	**1.3**	**0.41**
TPH (C6-C7 aromatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	<0.020	**0.24**	(9) <0.20
TPH (C6-C8 aliphatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	**0.030**	**0.76**	(9) <0.20
TPH (C7-C8 aromatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	<0.020	<0.020	(9) <0.20
TPH (C8-C10 aliphatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	<0.020	**0.56**	(9) <0.20
TPH (C8-C10 aromatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	<0.020	**0.56**	**0.23**
TPH (C10-C12 aliphatic)	T219 / AR / 0.01 / mg/l	(100,13) <0.02	(13,100) <0.02	(13,100) <0.02	(100,13) <0.02	(100,13) <0.02
TPH (C10-C12 aromatic)	T219 / AR / 0.01 / mg/l	(13,100) <0.02	(13) **0.07**	(13,100) <0.02	(13) **0.09**	(13) **0.04**
TPH (C12-C16 aliphatic)	T219 / AR / 0.01 / mg/l	(13,100) <0.02	(100,13) <0.02	(100,13) <0.02	(100,13) <0.02	(100,13) <0.02
TPH (C12-C16 aromatic)	T219 / AR / 0.01 / mg/l	(13,100) <0.02	(13) **0.37**	(13) **0.09**	(13) **0.03**	(13) **0.02**
TPH (C16-C21 aliphatic)	T219 / AR / 0.01 / mg/l	(13,100) <0.02	(13,100) <0.02	(13,100) <0.02	(100,13) <0.02	(13,100) <0.02
TPH (C16-C21 aromatic)	T219 / AR / 0.01 / mg/l	(13,100) <0.02	(13) **0.13**	(13) **0.04**	(13,100) <0.02	(100,13) <0.02
TPH (C21-C35 aliphatic)	T219 / AR / 0.01 / mg/l	(100,13) <0.02	(100,13) <0.02	(13,100) <0.02	(13) **0.03**	(100,13) <0.02
TPH (C21-C35 aromatic)	T219 / AR / 0.01 / mg/l	(13,100) <0.02	(100,13) <0.02	(13,100) <0.02	(100,13) <0.02	(100,13) <0.02

Concept Reference: 682422
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

				Concept Reference	**682422 006**	**682422 007**
				Customer Sample Reference	**MW6-W7**	**MW7-W7**
				Date Sampled	**12-SEP-2017**	**12-SEP-2017**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benzene	T54	AR	1	µg/l	<1	<1
EthylBenzene	T54	AR	1	µg/l	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1
O Xylene	T54	AR	1	µg/l	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	{100,13} <0.02	{100,13} <0.02
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	{13,100} <0.02	{13,100} <0.02
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	{100,13} <0.02	{13,100} <0.02
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	{13,100} <0.02	{13,100} <0.02
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	{100,13} <0.02	{100,13} <0.02
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	{100,13} <0.02	{13,100} <0.02
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	{13,100} <0.02	{100,13} <0.02
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	{100,13} <0.02	{100,13} <0.02

Concept Reference: 682422
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

	Concept Reference	682422 001	682422 002	682422 003	682422 004	682422 005
	Customer Sample Reference	MW1-W7	MW2-W7	MW3-W7	MW4-W7	MW5-W7
	Date Sampled	11-SEP-2017	11-SEP-2017	11-SEP-2017	12-SEP-2017	11-SEP-2017

Determinand	Method	Test Sample	LOD	Units					
Benzene	T54	AR	1	µg/l	<1	<1	<1	170	(9) <10
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	270	(9) <10
1,1,1-Trichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
1,1-Dichloropropene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	<1	<1	<1	4	(9) <10
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
1,4-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
2,2-Dichloropropane	T54	AR	1	µg/l	<1	<1	<1	3	(9) <10
Carbon tetrachloride	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Tertiary amyl methyl ether	T54	AR	1	µg/l	<1	<1	2	14	(9) <10
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Chloroform	T54	AR	1	µg/l	<1	<1	<1	3	(9) <10
n-Butylbenzene	T54	AR	1	µg/l	<1	<1	<1	6	(9) <10
1,2,3-Trichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
1,2-Dichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Vinyl chloride	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
p-Isopropyltoluene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
O Xylene	T54	AR	1	µg/l	<1	<1	<1	40	(9) <10
1,1-Dichloroethane	T54	AR	1	µg/l	<1	<1	4	<1	(9) <10
Bromodichloromethane	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Dibromochloromethane	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
S-Butylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Toluene	T54	AR	1	µg/l	<1	<1	<1	10	(9) <10
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
1,2-Dichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	<1	<1	<1	38	(9) <10
2-Chlorotoluene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Bromobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Isopropyl benzene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Styrene	T54	AR	1	µg/l	<1	<1	<1	1	(9) <10
T-Butylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Tetrachloroethene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Trichlorofluoromethane	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
1,2-dibromoethane	T54	AR	1	µg/l	<1	<1	<1	2	(9) <10
Bromochloromethane	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Chloroethane	T54	AR	1	µg/l	<1	<1	11	<1	(9) <10
Chloromethane	T54	AR	1	µg/l	<1	<1	17	16	(9) <10
Dichlorodifluoromethane	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	2	57	<1	12
1,3-Dichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	<5	<5	<5	68	(9) <50
4-Chlorotoluene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Bromoform	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Bromomethane	T54	AR	1	µg/l	<1	<1	2	<1	(9) <10
Dibromomethane	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
m/p ethyl toluene	T54	AR	5	µg/l	<5	<5	<5	37	(9) <50
n-Propylbenzene	T54	AR	1	µg/l	<1	<1	<1	37	(9) <10
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	<1	<1	<1	3	(9) <10
1,1,2-Trichloroethane	T54	AR	1	µg/l	<1	<1	2	36	20
1,1-Dichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
1,3-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Chlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10
Hexachlorobutadiene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10

Concept Reference: 682422
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

				Concept Reference	**682422 001**	**682422 002**	**682422 003**	**682422 004**	**682422 005**
				Customer Sample Reference	**MW1-W7**	**MW2-W7**	**MW3-W7**	**MW4-W7**	**MW5-W7**
				Date Sampled	**11-SEP-2017**	**11-SEP-2017**	**11-SEP-2017**	**12-SEP-2017**	**11-SEP-2017**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Trichloroethene	T54	AR	1	µg/l	<1	<1	<1	<1	(9) <10



Concept Reference: 682422
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	682422 006	682422 007
					Customer Sample Reference	MW6-W7	MW7-W7
					Date Sampled	12-SEP-2017	12-SEP-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Benzene	T54	AR	1	µg/l		<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1
n-Butylbenzene	T54	AR	1	µg/l		<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Toluene	T54	AR	1	µg/l		<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1
Styrene	T54	AR	1	µg/l		<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5
n-Propylbenzene	T54	AR	1	µg/l		<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1

Concept Reference: 682422
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

Concept Reference	**682422 006**	**682422 007**
Customer Sample Reference	**MW6-W7**	**MW7-W7**
Date Sampled	**12-SEP-2017**	**12-SEP-2017**

Determinand	Method	Test Sample	LOD	Units		
Trichloroethene	T54	AR	1	µg/l	<1	<1

Index to symbols used in 682422-1

Value	Description
F	Filtered
AR	As Received
100	LOD determined by sample aliquot used for analysis
9	LOD raised due to dilution of sample
149	LOD raised due to high dissolved solids
13	Results have been blank corrected.
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

TPH c10-c35 transferred to Concept Life Sciences Manchester

Method Index

Value	Description
T281	ICP/MS (Filtered)
T219	GC/FID (SE)
T221	Colorimetry (CE)
T264	Probe (Incubation Carbonaceous) (5 Days)
T649	ICP/OES (Calc)
T7	Probe
T54	GC/MS (Headspace)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-007
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-007
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,2-dibromoethane	T54	AR	1	µg/l	N	001-007
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-007
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
2-Chlorotoluene	T54	AR	1	µg/l	U	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
4-Chlorotoluene	T54	AR	1	µg/l	U	001-007
Benzene	T54	AR	1	µg/l	U	001-007
Bromobenzene	T54	AR	1	µg/l	U	001-007
Bromochloromethane	T54	AR	1	µg/l	U	001-007
Bromodichloromethane	T54	AR	1	µg/l	U	001-007
Bromoform	T54	AR	1	µg/l	N	001-007
Bromomethane	T54	AR	1	µg/l	U	001-007
Carbon tetrachloride	T54	AR	1	µg/l	U	001-007
Chlorobenzene	T54	AR	1	µg/l	U	001-007
Chloroethane	T54	AR	1	µg/l	U	001-007
Chloroform	T54	AR	1	µg/l	U	001-007
Chloromethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Dibromochloromethane	T54	AR	1	µg/l	U	001-007
Dibromomethane	T54	AR	1	µg/l	U	001-007
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-007
EthylBenzene	T54	AR	1	µg/l	U	001-007
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-007
Isopropyl benzene	T54	AR	1	µg/l	U	001-007
M/P Xylene	T54	AR	1	µg/l	U	001-007
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-007
O Xylene	T54	AR	1	µg/l	U	001-007
S-Butylbenzene	T54	AR	1	µg/l	U	001-007
Styrene	T54	AR	1	µg/l	U	001-007
T-Butylbenzene	T54	AR	1	µg/l	U	001-007
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
m/p ethyl toluene	T54	AR	5	µg/l	U	001-007
n-Butylbenzene	T54	AR	1	µg/l	U	001-007
n-Propylbenzene	T54	AR	1	µg/l	U	001-007
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-007
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-007
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-007
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-007
BOD (ATU)	T264	F	1	mg/l	N	001-007
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-007
pH	T7	F			U	001-007

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Report Number: 694132-1

Date of Report: 08-Nov-2017

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 003746
Customer Site Reference: Rustington
Date Job Received at Concept: 03-Nov-2017
Date Analysis Started: 03-Nov-2017
Date Analysis Completed: 08-Nov-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked and authorised by :
Christopher Payne
Customer Service Advisor

Issued by :
Christopher Payne
Customer Service Advisor

Concept Reference: 694132
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Misc Metals

		Concept Reference	694132 001	694132 002	694132 003	694132 004	694132 005
		Customer Sample Reference	MW1-W8	MW2-W8	MW3-W8	MW4-W8	MW5-W8
		Date Sampled	30-OCT-2017	30-OCT-2017	30-OCT-2017	31-OCT-2017	31-OCT-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Fe (Dissolved)	T281	F	0.005	mg/l	(149) <0.025	(149) <0.025	(149) <0.025	0.15	1.6
Mn (Dissolved)	T281	F	0.001	mg/l	0.70	0.29	0.089	0.67	2.4
Total Hardness expressed as CaCO3	T649	F	10	mg/l	500	1300	1400	310	1200
BOD (ATU)	T264	F	1	mg/l	3	6	4	4	11
Chemical Oxygen Demand	T221	F	20	mg/l	<20	160	150	23	90
pH	T7	F			7.60	7.00	8.30	7.50	7.80

Concept Reference: 694132
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Misc Metals

		Concept Reference	694132 006	694132 007
		Customer Sample Reference	MW6-W8	MW7-W8
		Date Sampled	31-OCT-2017	30-OCT-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Fe (Dissolved)	T281	F	0.005	mg/l	(149) <0.025	(149) <0.025
Mn (Dissolved)	T281	F	0.001	mg/l	0.13	(149) <0.005
Total Hardness expressed as CaCO3	T649	F	10	mg/l	1400	570
BOD (ATU)	T264	F	1	mg/l	3	<1
Chemical Oxygen Demand	T221	F	20	mg/l	45	35
pH	T7	F			7.90	10.2

Concept Reference: 694132
Project Site: Rustington
Customer Reference: 1CO102896

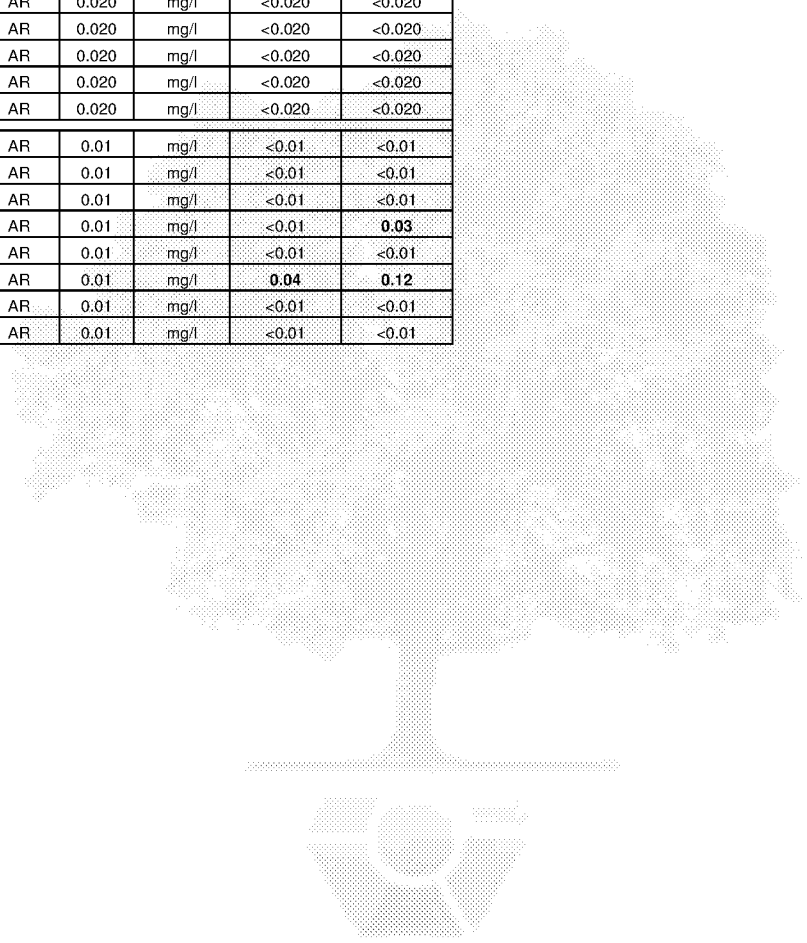
Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

		Concept Reference	694132 001	694132 002	694132 003	694132 004	694132 005
		Customer Sample Reference	MW1-W8	MW2-W8	MW3-W8	MW4-W8	MW5-W8
		Date Sampled	30-OCT-2017	30-OCT-2017	30-OCT-2017	31-OCT-2017	31-OCT-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Benzene	T54	AR	1	µg/l	<1	<1	1	3	460
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	1	870
O Xylene	T54	AR	1	µg/l	<1	<1	<1	8	350
Toluene	T54	AR	1	µg/l	<1	<1	<1	<1	57
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	2	41	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	0.098	7.2
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020	0.46
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	0.060	3.0
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020	0.057
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020	0.51
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	0.13	1.7
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	0.01	<0.01	<0.01	0.02
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	<0.01	0.06	0.02	0.02	0.09
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	<0.01	0.84	0.25	0.02	0.11
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	0.03	0.44	0.14	0.03	0.16
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	0.03	0.32	0.04	0.02	0.07

Concept Reference: 694132
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

				Concept Reference	**694132 006**	**694132 007**
				Customer Sample Reference	**MW6-W8**	**MW7-W8**
				Date Sampled	**31-OCT-2017**	**30-OCT-2017**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benzene	T54	AR	1	µg/l	<1	<1
EthylBenzene	T54	AR	1	µg/l	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1
O Xylene	T54	AR	1	µg/l	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	<0.01	**0.03**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	**0.04**	**0.12**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	<0.01	<0.01



Concept Reference: 694132
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	694132 001	694132 002	694132 003	694132 004	694132 005
					Customer Sample Reference	MW1-W8	MW2-W8	MW3-W8	MW4-W8	MW5-W8
					Date Sampled	30-OCT-2017	30-OCT-2017	30-OCT-2017	31-OCT-2017	31-OCT-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
M/P Xylene	T54	AR	1	µg/l		<1	<1	<1	1	870
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1	30	800
Dibromochloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	6
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5	<5	29	87
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	1
Chloroform	T54	AR	1	µg/l		<1	<1	<1	<1	11
Styrene	T54	AR	1	µg/l		<1	<1	<1	<1	14
EthylBenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1	3	<1	10
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5	<5	32	78
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		1	<1	<1	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1	<1	2	50
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	<1	3
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
n-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1	4	17
n-Propylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	88
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1	2	4
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	6
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1	<1	<1	23
T-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	<1	24
Trichloroethene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1	<1	24	89
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	4
Bromoform	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1	1	<1	34
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Benzene	T54	AR	1	µg/l		<1	<1	1	3	460
O Xylene	T54	AR	1	µg/l		<1	<1	<1	8	350
Toluene	T54	AR	1	µg/l		<1	<1	<1	<1	57
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1	<1	2	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	2	41	<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	5
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	6
Bromomethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1	<1	<1	<1

Concept Reference: 694132
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

				Concept Reference	694132 001	694132 002	694132 003	694132 004	694132 005
				Customer Sample Reference	MW1-W8	MW2-W8	MW3-W8	MW4-W8	MW5-W8
				Date Sampled	30-OCT-2017	30-OCT-2017	30-OCT-2017	31-OCT-2017	31-OCT-2017
Determinand	Method	Test Sample	LOD	Units					
p-Isopropyltoluene	T54	AR	1	µg/l	<1	<1	<1	<1	2



Concept Reference: 694132
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	694132 006	694132 007
					Customer Sample Reference	MW6-W8	MW7-W8
					Date Sampled	31-OCT-2017	30-OCT-2017
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
M/P Xylene	T54	AR	1	µg/l		<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1
Styrene	T54	AR	1	µg/l		<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	4
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1
n-Butylbenzene	T54	AR	1	µg/l		<1	<1
n-Propylbenzene	T54	AR	1	µg/l		<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1
Benzene	T54	AR	1	µg/l		<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1
Toluene	T54	AR	1	µg/l		<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1
Chloromethane	T54	AR	1	µg/l		1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1

Concept Reference: 694132
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

Concept Reference	**694132 006**	**694132 007**
Customer Sample Reference	**MW6-W8**	**MW7-W8**
Date Sampled	**31-OCT-2017**	**30-OCT-2017**

Determinand	Method	Test Sample	LOD	Units		
p-Isopropyltoluene	T54	AR	1	µg/l	<1	<1

Index to symbols used in 694132-1

Value	Description
F	Filtered
AR	As Received
149	LOD raised due to high dissolved solids
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T264	Probe (Incubation Carbonaceous) (5 Days)
T7	Probe
T219	GC/FID (SE)
T281	ICP/MS (Filtered)
T221	Colorimetry (CE)
T649	ICP/OES (Calc)
T54	GC/MS (Headspace)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Benzene	T54	AR	1	µg/l	U	001-007
O Xylene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-007
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-007
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-007
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-007
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,2-dibromoethane	T54	AR	1	µg/l	N	001-007
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-007
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
2-Chlorotoluene	T54	AR	1	µg/l	U	001-007
4-Chlorotoluene	T54	AR	1	µg/l	U	001-007
Bromobenzene	T54	AR	1	µg/l	U	001-007
Bromochloromethane	T54	AR	1	µg/l	U	001-007
Bromodichloromethane	T54	AR	1	µg/l	U	001-007
Bromoform	T54	AR	1	µg/l	N	001-007
Bromomethane	T54	AR	1	µg/l	U	001-007
Carbon tetrachloride	T54	AR	1	µg/l	U	001-007
Chlorobenzene	T54	AR	1	µg/l	U	001-007
Chloroethane	T54	AR	1	µg/l	U	001-007
Chloroform	T54	AR	1	µg/l	U	001-007
Chloromethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Dibromochloromethane	T54	AR	1	µg/l	U	001-007
Dibromomethane	T54	AR	1	µg/l	U	001-007
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-007
EthylBenzene	T54	AR	1	µg/l	U	001-007
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-007
Isopropyl benzene	T54	AR	1	µg/l	U	001-007
M/P Xylene	T54	AR	1	µg/l	U	001-007
S-Butylbenzene	T54	AR	1	µg/l	U	001-007
Styrene	T54	AR	1	µg/l	U	001-007
T-Butylbenzene	T54	AR	1	µg/l	U	001-007
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
m/p ethyl toluene	T54	AR	5	µg/l	U	001-007
n-Butylbenzene	T54	AR	1	µg/l	U	001-007
n-Propylbenzene	T54	AR	1	µg/l	U	001-007
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-007
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-007
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-007
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-007
BOD (ATU)	T264	F	1	mg/l	N	001-007
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-007
pH	T7	F			U	001-007

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Report Number: 710191-1

Date of Report: 30-Jan-2018

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference:
Customer Purchase Order: 004069
Customer Site Reference: Rustington
Date Job Received at Concept: 22-Jan-2018
Date Analysis Started: 22-Jan-2018
Date Analysis Completed: 30-Jan-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked
and authorised by :
Christopher Payne
Customer Service Advisor

Issued by :
Christopher Payne
Customer Service Advisor

Concept Reference: 710191
Project Site: Rustington
Customer Reference:

Water Analysed as Water
Miscellaneous

				Concept Reference	**710191 001**	**710191 002**	**710191 003**	**710191 004**	**710191 005**
				Customer Sample Reference	**MW1-W9**	**MW2-W9**	**MW3-W9**	**MW4-W9**	**MW5-W9**
				Date Sampled	**18-JAN-2018**	**18-JAN-2018**	**18-JAN-2018**	**17-JAN-2018**	**17-JAN-2018**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Mn (Dissolved)	T281	F	0.001	mg/l	**0.28**	**0.59**	**0.071**	**0.12**	**0.15**
Fe (Dissolved)	T281	F	0.005	mg/l	**0.013**	(149) <0.050	(149) <0.050	**0.033**	**0.010**
Total Hardness expressed as CaCO3	T649	F	10	mg/l	**570**	**1300**	**1400**	**210**	**820**
BOD (ATU)	T264	F	1	mg/l	**1**	**5**	**4**	**2**	**5**
Chemical Oxygen Demand	T221	F	20	mg/l	**23**	**130**	**100**	<20	**46**
pH	T7	F			**7.93**	**7.20**	**7.13**	**8.20**	**7.92**

Concept Reference: 710191
Project Site: Rustington
Customer Reference:

Water Analysed as Water
Miscellaneous

				Concept Reference	**710191 006**	**710191 007**
				Customer Sample Reference	**MW6-W9**	**MW7-W9**
				Date Sampled	**17-JAN-2018**	**17-JAN-2018**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Mn (Dissolved)	T281	F	0.001	mg/l	**0.017**	**0.003**
Fe (Dissolved)	T281	F	0.005	mg/l	**0.008**	**0.009**
Total Hardness expressed as CaCO3	T649	F	10	mg/l	**690**	**290**
BOD (ATU)	T264	F	1	mg/l	<1	<1
Chemical Oxygen Demand	T221	F	20	mg/l	**34**	**35**
pH	T7	F			**8.06**	**9.17**

Concept Reference: 710191
Project Site: Rustington
Customer Reference:

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

				Concept Reference	**710191 001**	**710191 002**	**710191 003**	**710191 004**	**710191 005**
				Customer Sample Reference	**MW1-W9**	**MW2-W9**	**MW3-W9**	**MW4-W9**	**MW5-W9**
				Date Sampled	**18-JAN-2018**	**18-JAN-2018**	**18-JAN-2018**	**17-JAN-2018**	**17-JAN-2018**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Benzene	T54	AR	1	µg/l	<1	<1	1	<1	**9**
Toluene	T54	AR	1	µg/l	<1	<1	<1	<1	**2**
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	<1	**11**
O Xylene	T54	AR	1	µg/l	<1	<1	<1	<1	**8**
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1	<1	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020	**0.095**
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020	**0.031**
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020	**0.065**
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01	**0.04**
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	<0.01	**0.09**	**0.03**	<0.01	**0.03**
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	**0.02**	**0.73**	**0.33**	**0.01**	**0.10**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	**0.05**	**0.44**	**0.22**	**0.02**	**0.17**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	**0.01**	**0.04**	**0.04**	**0.02**	**0.06**
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	**0.12**	**0.40**	**0.21**	**0.04**	**0.19**

Concept Reference: 710191
Project Site: Rustington
Customer Reference:

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

				Concept Reference	**710191 006**	**710191 007**
				Customer Sample Reference	**MW6-W9**	**MW7-W9**
				Date Sampled	**17-JAN-2018**	**17-JAN-2018**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benzene	T54	AR	1	µg/l	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1
EthylBenzene	T54	AR	1	µg/l	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1
O Xylene	T54	AR	1	µg/l	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	**0.03**	**0.03**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	**0.11**	**0.05**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	**0.06**	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	**0.10**	**0.06**

Concept Reference: 710191
Project Site: Rustington
Customer Reference:

Water Analysed as Water
VOC (SE)

	Concept Reference	710191 001	710191 002	710191 003	710191 004	710191 005
	Customer Sample Reference	MW1-W9	MW2-W9	MW3-W9	MW4-W9	MW5-W9
	Date Sampled	18-JAN-2018	18-JAN-2018	18-JAN-2018	17-JAN-2018	17-JAN-2018
Determinand	**Method** / **Test Sample** / **LOD** / **Units**					
Benzene	T54 AR 1 µg/l	<1	<1	1	<1	9
O Xylene	T54 AR 1 µg/l	<1	<1	<1	<1	8
1,1-Dichloroethane	T54 AR 1 µg/l	<1	<1	3	<1	<1
1,2-Dichloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	4
1,2-dibromoethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Bromoform	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Carbon tetrachloride	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Chloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Trichlorofluoromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Trichloroethene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
p-Isopropyltoluene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Bromodichloromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Dibromomethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
S-Butylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Trans-1,2-Dichloroethene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
n-Propylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Toluene	T54 AR 1 µg/l	<1	<1	<1	<1	2
1,1,2,2-Tetrachloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,1-Dichloroethylene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	11
4-Chlorotoluene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Cis-1,3-Dichloropropene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Isopropyl benzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Tetrachloroethene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
m/p ethyl toluene	T54 AR 5 µg/l	<5	<5	<5	<5	10
M/P Xylene	T54 AR 1 µg/l	<1	<1	<1	<1	11
1,1,1,2-Tetrachloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,3-Dichloropropane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Bromobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Dibromochloromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Tertiary amyl methyl ether	T54 AR 1 µg/l	<1	<1	2	<1	1
EthylBenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,2-Dichloropropane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Ethyl-2-Methylbenzene	T54 AR 5 µg/l	<5	<5	<5	<5	7
Bromomethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Chlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Chloroform	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Hexachlorobutadiene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
2,2-Dichloropropane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Bromochloromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Styrene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,1-Dichloropropene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
2-Chlorotoluene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Chloromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Dichlorodifluoromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1
T-Butylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Trans-1,3-Dichloropropene	T54 AR 1 µg/l	<1	<1	<1	<1	<1
Vinyl chloride	T54 AR 1 µg/l	<1	<1	<1	<1	<1

Concept Reference: 710191
Project Site: Rustington
Customer Reference:

Water Analysed as Water
VOC (SE)

				Concept Reference	**710191 001**	**710191 002**	**710191 003**	**710191 004**	**710191 005**
				Customer Sample Reference	**MW1-W9**	**MW2-W9**	**MW3-W9**	**MW4-W9**	**MW5-W9**
				Date Sampled	**18-JAN-2018**	**18-JAN-2018**	**18-JAN-2018**	**17-JAN-2018**	**17-JAN-2018**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
n-Butylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1	2



Concept Reference: 710191
Project Site: Rustington
Customer Reference:

Water Analysed as Water
VOC (SE)

					Concept Reference	710191 006	710191 007
					Customer Sample Reference	MW6-W9	MW7-W9
					Date Sampled	17-JAN-2018	17-JAN-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Benzene	T54	AR	1	µg/l		<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1
n-Propylbenzene	T54	AR	1	µg/l		<1	<1
Toluene	T54	AR	1	µg/l		<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5
M/P Xylene	T54	AR	1	µg/l		<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5
Bromomethane	T54	AR	1	µg/l		<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1
Styrene	T54	AR	1	µg/l		<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1

Concept Reference: 710191
Project Site: Rustington
Customer Reference:

Water Analysed as Water
VOC (SE)

Concept Reference	**710191 006**	**710191 007**
Customer Sample Reference	**MW6-W9**	**MW7-W9**
Date Sampled	**17-JAN-2018**	**17-JAN-2018**

Determinand	Method	Test Sample	LOD	Units		
n-Butylbenzene	T54	AR	1	µg/l	<1	<1

Index to symbols used in 710191-1

Value	Description
AR	As Received
F	Filtered
149	LOD raised due to high dissolved solids
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T264	Probe (Incubation Carbonaceous) (5 Days)
T281	ICP/MS (Filtered)
T54	GC/MS (Headspace)
T7	Probe
T219	GC/FID (SE)
T221	Colorimetry (CE)
T649	ICP/OES (Calc)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-007
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-007
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,2-dibromoethane	T54	AR	1	µg/l	N	001-007
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-007
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
2-Chlorotoluene	T54	AR	1	µg/l	U	001-007
4-Chlorotoluene	T54	AR	1	µg/l	U	001-007
Bromobenzene	T54	AR	1	µg/l	U	001-007
Bromochloromethane	T54	AR	1	µg/l	U	001-007
Bromodichloromethane	T54	AR	1	µg/l	U	001-007
Bromoform	T54	AR	1	µg/l	N	001-007
Bromomethane	T54	AR	1	µg/l	U	001-007
Carbon tetrachloride	T54	AR	1	µg/l	U	001-007
Chlorobenzene	T54	AR	1	µg/l	U	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Chloroethane	T54	AR	1	µg/l	U	001-007
Chloroform	T54	AR	1	µg/l	U	001-007
Chloromethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Dibromochloromethane	T54	AR	1	µg/l	U	001-007
Dibromomethane	T54	AR	1	µg/l	U	001-007
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-007
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-007
Isopropyl benzene	T54	AR	1	µg/l	U	001-007
M/P Xylene	T54	AR	1	µg/l	U	001-007
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-007
S-Butylbenzene	T54	AR	1	µg/l	U	001-007
Styrene	T54	AR	1	µg/l	U	001-007
T-Butylbenzene	T54	AR	1	µg/l	U	001-007
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
m/p ethyl toluene	T54	AR	5	µg/l	U	001-007
n-Butylbenzene	T54	AR	1	µg/l	U	001-007
n-Propylbenzene	T54	AR	1	µg/l	U	001-007
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-007
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-007
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-007
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-007
BOD (ATU)	T264	F	1	mg/l	N	001-007
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-007
pH	T7	F			U	001-007
Benzene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
EthylBenzene	T54	AR	1	µg/l	U	001-007
O Xylene	T54	AR	1	µg/l	U	001-007
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-007

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Report Number: 716577-1

Date of Report: 26-Feb-2018

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 004219
Customer Site Reference: Rustington
Date Job Received at Concept: 19-Feb-2018
Date Analysis Started: 20-Feb-2018
Date Analysis Completed: 26-Feb-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked and authorised by :
Christopher Payne
Customer Service Advisor

Issued by :
Christopher Payne
Customer Service Advisor

Concept Reference: 716577
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Misc Metals

				Concept Reference	**716577 001**	**716577 002**	**716577 003**	**716577 004**
				Customer Sample Reference	**MW4-W10**	**MW5-W10**	**MW6-W10**	**MW7-W10**
				Date Sampled	**15-FEB-2018**	**15-FEB-2018**	**15-FEB-2018**	**15-FEB-2018**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Mn (Dissolved)	T281	F	0.001	mg/l	**0.018**	**0.023**	**0.016**	**0.003**
Fe (Dissolved)	T281	F	0.005	mg/l	**0.009**	**0.040**	**0.039**	<0.005
Total Hardness expressed as CaCO3	T649	F	10	mg/l	**230**	**480**	**510**	**310**
BOD (ATU)	T264	F	1	mg/l	**3**	**4**	**3**	**3**
Chemical Oxygen Demand	T221	F	20	mg/l	**24**	**28**	**30**	**29**
pH	T7	F			**7.98**	**7.94**	**7.89**	**9.57**

Concept Reference: 716577
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

				Concept Reference	**716577 001**	**716577 002**	**716577 003**	**716577 004**
				Customer Sample Reference	**MW4-W10**	**MW5-W10**	**MW6-W10**	**MW7-W10**
				Date Sampled	**15-FEB-2018**	**15-FEB-2018**	**15-FEB-2018**	**15-FEB-2018**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Benzene	T54	AR	1	µg/l	<1	<1	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1	<1	<1
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	<1
O Xylene	T54	AR	1	µg/l	<1	<1	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020	<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	<0.01	**0.02**	<0.01	**0.02**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	<0.01	**0.07**	**0.05**	**0.05**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	**0.01**	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	<0.01	**0.04**	**0.03**	**0.03**

Concept Reference: 716577
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	716577 001	716577 002	716577 003	716577 004
					Customer Sample Reference	MW4-W10	MW5-W10	MW6-W10	MW7-W10
					Date Sampled	15-FEB-2018	15-FEB-2018	15-FEB-2018	15-FEB-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Benzene	T54	AR	1	µg/l		<1	<1	<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1	<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1	<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1	<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1	<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1	<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1	<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1	<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1	<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1	<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1	<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1	<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1	<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1
Toluene	T54	AR	1	µg/l		<1	<1	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1	<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1	<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1	<1	<1
Styrene	T54	AR	1	µg/l		<1	<1	<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1	<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1	<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1	<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1	<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5	<5	<5
n-Propylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5	<5	<5
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1	<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1	<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1	<1	<1

Concept Reference: 716577
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

				Concept Reference	716577 001	716577 002	716577 003	716577 004
				Customer Sample Reference	MW4-W10	MW5-W10	MW6-W10	MW7-W10
				Date Sampled	15-FEB-2018	15-FEB-2018	15-FEB-2018	15-FEB-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
n-Butylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1

Index to symbols used in 716577-1

Value	Description
F	Filtered
AR	As Received
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T264	Probe (Incubation Carbonaceous) (5 Days)
T219	GC/FID (SE)
T281	ICP/MS (Filtered)
T221	Colorimetry (CE)
T649	ICP/OES (Calc)
T7	Probe
T54	GC/MS (Headspace)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-004
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-004
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-004
BOD (ATU)	T264	F	1	mg/l	N	001-004
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-004
pH	T7	F			U	001-004
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-004
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-004
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-004
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-004
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-004
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-004
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-004
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-004
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-004
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-004
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-004
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-004
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-004
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-004
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-004
1,2-dibromoethane	T54	AR	1	µg/l	N	001-004
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-004
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-004
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-004
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-004
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-004
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-004
2-Chlorotoluene	T54	AR	1	µg/l	U	001-004
4-Chlorotoluene	T54	AR	1	µg/l	U	001-004
Bromobenzene	T54	AR	1	µg/l	U	001-004
Bromochloromethane	T54	AR	1	µg/l	U	001-004

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Bromodichloromethane	T54	AR	1	µg/l	U	001-004
Bromoform	T54	AR	1	µg/l	N	001-004
Bromomethane	T54	AR	1	µg/l	U	001-004
Carbon tetrachloride	T54	AR	1	µg/l	U	001-004
Chlorobenzene	T54	AR	1	µg/l	U	001-004
Chloroethane	T54	AR	1	µg/l	U	001-004
Chloroform	T54	AR	1	µg/l	U	001-004
Chloromethane	T54	AR	1	µg/l	U	001-004
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-004
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-004
Dibromochloromethane	T54	AR	1	µg/l	U	001-004
Dibromomethane	T54	AR	1	µg/l	U	001-004
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-004
EthylBenzene	T54	AR	1	µg/l	U	001-004
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-004
Isopropyl benzene	T54	AR	1	µg/l	U	001-004
M/P Xylene	T54	AR	1	µg/l	U	001-004
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-004
O Xylene	T54	AR	1	µg/l	U	001-004
S-Butylbenzene	T54	AR	1	µg/l	U	001-004
Styrene	T54	AR	1	µg/l	U	001-004
T-Butylbenzene	T54	AR	1	µg/l	U	001-004
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-004
Tetrachloroethene	T54	AR	1	µg/l	U	001-004
Toluene	T54	AR	1	µg/l	U	001-004
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-004
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-004
Trichloroethene	T54	AR	1	µg/l	U	001-004
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-004
Vinyl chloride	T54	AR	1	µg/l	U	001-004
m/p ethyl toluene	T54	AR	5	µg/l	U	001-004
n-Butylbenzene	T54	AR	1	µg/l	U	001-004
n-Propylbenzene	T54	AR	1	µg/l	U	001-004
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-004
Benzene	T54	AR	1	µg/l	U	001-004
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-004

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Report Number: 733013-1

Date of Report: 08-May-2018

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 004702
Customer Site Reference: Rustington
Date Job Received at Concept: 30-Apr-2018
Date Analysis Started: 30-Apr-2018
Date Analysis Completed: 08-May-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked and authorised by :
Aislinn Arthey
Customer Service Advisor

Issued by :
Aislinn Arthey
Customer Service Advisor

Concept Reference: 733013
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

					Concept Reference	733013 001	733013 002	733013 003	733013 004	733013 005
					Customer Sample Reference	MW1-W11	MW2-W11	MW3-W11	MW4-W11	MW5-W11
					Date Sampled	25-APR-2018	25-APR-2018	25-APR-2018	26-APR-2018	26-APR-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Fe (Dissolved)	T281	F	0.005	mg/l		<0.005	48	(149) <0.050	0.094	0.81
Mn (Dissolved)	T281	F	0.001	mg/l		0.043	16	2.0	0.62	0.96
Total Hardness expressed as CaCO3	T649	F	10	mg/l		670	1200	1400	240	950
BOD (ATU)	T264	F	1	mg/l		4	7	5	6	13
Chemical Oxygen Demand	T221	F	20	mg/l		34	110	69	74	110
pH	T7	F				7.78	7.02	7.45	8.13	7.83

Concept Reference: 733013
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

					Concept Reference	733013 006	733013 007
					Customer Sample Reference	MW6-W11	MW7-W11
					Date Sampled	26-APR-2018	26-APR-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Fe (Dissolved)	T281	F	0.005	mg/l		0.041	<0.005
Mn (Dissolved)	T281	F	0.001	mg/l		0.046	<0.001
Total Hardness expressed as CaCO3	T649	F	10	mg/l		790	230
BOD (ATU)	T264	F	1	mg/l		3	3
Chemical Oxygen Demand	T221	F	20	mg/l		48	35
pH	T7	F				7.98	9.55

Concept Reference: 733013
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

					Concept Reference	733013 001	733013 002	733013 003	733013 004	733013 005
					Customer Sample Reference	MW1-W11	MW2-W11	MW3-W11	MW4-W11	MW5-W11
					Date Sampled	25-APR-2018	25-APR-2018	25-APR-2018	26-APR-2018	26-APR-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Toluene	T54	AR	1	µg/l		<1	<1	<1	<1	5
Benzene	T54	AR	1	µg/l		(13) <1	(13) 1	(13) 3	(13) <1	(13) 20
EthylBenzene	T54	AR	1	µg/l		<1	<1	<1	<1	2
O Xylene	T54	AR	1	µg/l		<1	<1	<1	<1	13
M/P Xylene	T54	AR	1	µg/l		<1	<1	<1	<1	79
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	2	37	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020	<0.020	0.17
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020	<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020	<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020	<0.020	0.22
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l		<0.01	0.10	0.02	<0.01	0.03
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01	<0.01	0.02
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l		<0.01	0.88	0.23	0.03	0.07
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l		<0.01	0.01	<0.01	<0.01	0.13
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l		<0.01	0.66	0.16	0.06	0.15
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l		<0.01	0.02	0.06	0.05	0.35
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l		<0.01	0.50	0.14	0.11	0.16

Concept Reference: 733013
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

					Concept Reference	733013 006	733013 007
					Customer Sample Reference	MW6-W11	MW7-W11
					Date Sampled	26-APR-2018	26-APR-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Toluene	T54	AR	1	µg/l		<1	<1
Benzene	T54	AR	1	µg/l		(13) <1	(13) <1
EthylBenzene	T54	AR	1	µg/l		<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l		**0.05**	**0.03**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l		**0.04**	**0.07**

Concept Reference: 733013
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	733013 001	733013 002	733013 003	733013 004	733013 005
					Customer Sample Reference	MW1-W11	MW2-W11	MW3-W11	MW4-W11	MW5-W11
					Date Sampled	25-APR-2018	25-APR-2018	25-APR-2018	26-APR-2018	26-APR-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
EthylBenzene	T54	AR	1	µg/l		<1	<1	<1	<1	2
M/P Xylene	T54	AR	1	µg/l		<1	<1	<1	<1	79
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5	<5	<5	25
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1	8	<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Styrene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
n-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	2	37	<1	<1
Toluene	T54	AR	1	µg/l		<1	<1	<1	<1	5
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5	<5	<5	38
O Xylene	T54	AR	1	µg/l		<1	<1	<1	<1	13
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	13
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	27
Bromochloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Benzene	T54	AR	1	µg/l		(13) <1	(13) 1	(13) 3	(13) <1	(13) 20
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1	3	<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1

Concept Reference: 733013
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

				Concept Reference	**733013 001**	**733013 002**	**733013 003**	**733013 004**	**733013 005**
				Customer Sample Reference	**MW1-W11**	**MW2-W11**	**MW3-W11**	**MW4-W11**	**MW5-W11**
				Date Sampled	**25-APR-2018**	**25-APR-2018**	**25-APR-2018**	**26-APR-2018**	**26-APR-2018**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
n-Propylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1



Concept Reference: 733013
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	733013 006	733013 007
					Customer Sample Reference	MW6-W11	MW7-W11
					Date Sampled	26-APR-2018	26-APR-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
EthylBenzene	T54	AR	1	µg/l		<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1
Styrene	T54	AR	1	µg/l		<1	<1
n-Butylbenzene	T54	AR	1	µg/l		<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
Toluene	T54	AR	1	µg/l		<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5
O Xylene	T54	AR	1	µg/l		<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1
Benzene	T54	AR	1	µg/l	(13)	<1	(13) <1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1

Concept Reference: 733013
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

Concept Reference	**733013 006**	**733013 007**
Customer Sample Reference	**MW6-W11**	**MW7-W11**
Date Sampled	**26-APR-2018**	**26-APR-2018**

Determinand	Method	Test Sample	LOD	Units		
n-Propylbenzene	T54	AR	1	µg/l	<1	<1

Index to symbols used in 733013-1

Value	Description
F	Filtered
AR	As Received
149	LOD raised due to high dissolved solids
13	Results have been blank corrected.
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Analysis by GC/MS (head-space) transferred to Concept Life Sciences Manchester

Method Index

Value	Description
T264	Probe (Incubation Carbonaceous) (5 Days)
T281	ICP/MS (Filtered)
T7	Probe
T54	GC/MS (Headspace)
T221	Colorimetry (CE)
T649	ICP/OES (Calc)
T219	GC/FID (SE)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-007
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-007
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-007
BOD (ATU)	T264	F	1	mg/l	N	001-007
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-007
pH	T7	F			U	001-007
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-007
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-007
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,2-dibromoethane	T54	AR	1	µg/l	N	001-007
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-007
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
2-Chlorotoluene	T54	AR	1	µg/l	U	001-007
4-Chlorotoluene	T54	AR	1	µg/l	U	001-007
Bromobenzene	T54	AR	1	µg/l	U	001-007
Bromochloromethane	T54	AR	1	µg/l	U	001-007
Bromodichloromethane	T54	AR	1	µg/l	U	001-007
Bromoform	T54	AR	1	µg/l	N	001-007
Bromomethane	T54	AR	1	µg/l	U	001-007
Carbon tetrachloride	T54	AR	1	µg/l	U	001-007
Chlorobenzene	T54	AR	1	µg/l	U	001-007
Chloroethane	T54	AR	1	µg/l	U	001-007
Chloroform	T54	AR	1	µg/l	U	001-007
Chloromethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Dibromochloromethane	T54	AR	1	µg/l	U	001-007
Dibromomethane	T54	AR	1	µg/l	U	001-007
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-007
EthylBenzene	T54	AR	1	µg/l	U	001-007
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-007
Isopropyl benzene	T54	AR	1	µg/l	U	001-007
M/P Xylene	T54	AR	1	µg/l	U	001-007
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-007
S-Butylbenzene	T54	AR	1	µg/l	U	001-007
Styrene	T54	AR	1	µg/l	U	001-007
T-Butylbenzene	T54	AR	1	µg/l	U	001-007
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
m/p ethyl toluene	T54	AR	5	µg/l	U	001-007
n-Butylbenzene	T54	AR	1	µg/l	U	001-007
n-Propylbenzene	T54	AR	1	µg/l	U	001-007
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-007
Benzene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
O Xylene	T54	AR	1	µg/l	U	001-007
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-007

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Tel : 01376 560120
Fax : 01376 552923

Report Number: 749555-1

Date of Report: 11-Jul-2018

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 005113
Customer Site Reference: Rustington
Date Job Received at Concept: 05-Jul-2018
Date Analysis Started: 05-Jul-2018
Date Analysis Completed: 11-Jul-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked and authorised by :
Aislinn Arthey
Customer Service Advisor

Issued by :
Aislinn Arthey
Customer Service Advisor

Concept Reference: 749555
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

					Concept Reference	749555 001	749555 002	749555 003
					Customer Sample Reference	MW1-W12	MW4-W12	MW7-W12
					Date Sampled	03-JUL-2018	03-JUL-2018	03-JUL-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Fe (Dissolved)	T281	F	0.005	mg/l		**0.058**	**0.035**	<0.005
Mn (Dissolved)	T281	F	0.001	mg/l		**0.074**	**0.25**	<0.001
Total Hardness expressed as CaCO3	T649	F	10	mg/l		**750**	**320**	**340**
BOD (ATU)	T264	AR	1	mg/l		**6**	**14**	**4**
Chemical Oxygen Demand	T221	AR	20	mg/l		**25**	**93**	**31**
pH	T7	F				**7.56**	**7.98**	**9.44**

Concept Reference: 749555
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

					Concept Reference	749555 001	749555 002	749555 003
					Customer Sample Reference	MW1-W12	MW4-W12	MW7-W12
					Date Sampled	03-JUL-2018	03-JUL-2018	03-JUL-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Benzene	T54	AR	1	µg/l		<1	<1	<1
Toluene	T54	AR	1	µg/l		<1	<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l		<0.020	**0.083**	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l		<0.01	**0.01**	<0.01
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l		**0.01**	**0.16**	<0.01
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l		**0.01**	**0.03**	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l		**0.01**	**0.22**	**0.02**

Concept Reference: 749555
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	749555 001	749555 002	749555 003
					Customer Sample Reference	MW1-W12	MW4-W12	MW7-W12
					Date Sampled	03-JUL-2018	03-JUL-2018	03-JUL-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Benzene	T54	AR	1	µg/l		<1	<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5	<5
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1	<1
Styrene	T54	AR	1	µg/l		<1	<1	<1
n-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1
n-Propylbenzene	T54	AR	1	µg/l		<1	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1	<1
Toluene	T54	AR	1	µg/l		<1	<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5	<5
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1	<1

Concept Reference: 749555
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

Concept Reference	**749555 001**	**749555 002**	**749555 003**
Customer Sample Reference	**MW1-W12**	**MW4-W12**	**MW7-W12**
Date Sampled	**03-JUL-2018**	**03-JUL-2018**	**03-JUL-2018**

Determinand	Method	Test Sample	LOD	Units			
Trichlorofluoromethane	T54	AR	1	µg/l	<1	<1	<1

Index to symbols used in 749555-1

Value	Description
F	Filtered
AR	As Received
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T649	ICP/OES (Calc)
T221	Colorimetry (CE)
T281	ICP/MS (Filtered)
T54	GC/MS (Headspace)
T264	Probe (Incubation Carbonaceous) (5 Days)
T219	GC/FID (SE)
T7	Probe

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-003
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-003
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-003
BOD (ATU)	T264	AR	1	mg/l	N	001-003
Chemical Oxygen Demand	T221	AR	20	mg/l	N	001-003
pH	T7	F			U	001-003
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-003
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-003
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-003
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-003
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-003
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-003
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-003
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-003
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-003
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-003
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-003
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-003
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-003
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-003
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-003
1,2-dibromoethane	T54	AR	1	µg/l	N	001-003
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-003
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-003
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-003
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-003
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-003
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-003
2-Chlorotoluene	T54	AR	1	µg/l	U	001-003
4-Chlorotoluene	T54	AR	1	µg/l	U	001-003
Bromobenzene	T54	AR	1	µg/l	U	001-003
Bromochloromethane	T54	AR	1	µg/l	U	001-003

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Bromodichloromethane	T54	AR	1	µg/l	U	001-003
Bromoform	T54	AR	1	µg/l	N	001-003
Bromomethane	T54	AR	1	µg/l	U	001-003
Carbon tetrachloride	T54	AR	1	µg/l	U	001-003
Chlorobenzene	T54	AR	1	µg/l	U	001-003
Chloroethane	T54	AR	1	µg/l	U	001-003
Chloroform	T54	AR	1	µg/l	U	001-003
Chloromethane	T54	AR	1	µg/l	U	001-003
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-003
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-003
Dibromochloromethane	T54	AR	1	µg/l	U	001-003
Dibromomethane	T54	AR	1	µg/l	U	001-003
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-003
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-003
Isopropyl benzene	T54	AR	1	µg/l	U	001-003
S-Butylbenzene	T54	AR	1	µg/l	U	001-003
Styrene	T54	AR	1	µg/l	U	001-003
T-Butylbenzene	T54	AR	1	µg/l	U	001-003
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-003
Tetrachloroethene	T54	AR	1	µg/l	U	001-003
Toluene	T54	AR	1	µg/l	U	001-003
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-003
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-003
Trichloroethene	T54	AR	1	µg/l	U	001-003
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-003
Vinyl chloride	T54	AR	1	µg/l	U	001-003
m/p ethyl toluene	T54	AR	5	µg/l	U	001-003
n-Butylbenzene	T54	AR	1	µg/l	U	001-003
n-Propylbenzene	T54	AR	1	µg/l	U	001-003
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-003
Benzene	T54	AR	1	µg/l	U	001-003
EthylBenzene	T54	AR	1	µg/l	U	001-003
M/P Xylene	T54	AR	1	µg/l	U	001-003
O Xylene	T54	AR	1	µg/l	U	001-003
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-003
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-003
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-003
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-003
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-003
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-003
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-003
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-003
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-003

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Report Number: 750492-1

Date of Report: 16-Jul-2018

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 005137
Customer Site Reference: Rustington
Date Job Received at Concept: 09-Jul-2018
Date Analysis Started: 09-Jul-2018
Date Analysis Completed: 16-Jul-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked and authorised by :
Aislinn Arthey
Customer Service Advisor

Issued by :
Aislinn Arthey
Customer Service Advisor

Concept Reference: 750492
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

	Concept Reference	750492 001	750492 002	750492 003	750492 004
	Customer Sample Reference	MW2-W12	MW3-W12	MW5-W12	MW6-W12
	Date Sampled	05-JUL-2018	05-JUL-2018	05-JUL-2018	05-JUL-2018
Determinand	**Method** / **Test Sample** / **LOD** / **Units**				
Fe (Dissolved)	T281 / F / 0.005 / mg/l	62	0.23	0.088	0.006
Mn (Dissolved)	T281 / F / 0.001 / mg/l	10	1.9	1.9	0.38
Total Hardness expressed as CaCO3	T649 / F / 10 / mg/l	1100	1500	1300	770
BOD (ATU)	T264 / F / 1 / mg/l	18	11	6	9
Chemical Oxygen Demand	T221 / F / 20 / mg/l	91	110	110	39
pH	T7 / F / /	6.79	7.09	7.71	8.07

Concept Reference: 750492
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

	Concept Reference	750492 001	750492 002	750492 003	750492 004
	Customer Sample Reference	MW2-W12	MW3-W12	MW5-W12	MW6-W12
	Date Sampled	05-JUL-2018	05-JUL-2018	05-JUL-2018	05-JUL-2018
Determinand	**Method** / **Test Sample** / **LOD** / **Units**				
Benzene	T54 / AR / 1 / µg/l	(13) 1	(13) 6	<1	<1
EthylBenzene	T54 / AR / 1 / µg/l	<1	<1	<1	<1
M/P Xylene	T54 / AR / 1 / µg/l	<1	<1	<1	<1
O Xylene	T54 / AR / 1 / µg/l	<1	<1	<1	<1
Toluene	T54 / AR / 1 / µg/l	<1	<1	<1	<1
Methyl tert-Butyl Ether	T54 / AR / 1 / µg/l	<1	<1	<1	<1
TPH (C5-C6 aliphatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	0.27	<0.020
TPH (C6-C7 aromatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	0.085	<0.020
TPH (C7-C8 aromatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	<0.020	<0.020
TPH (C8-C10 aromatic)	T54 / AR / 0.020 / mg/l	<0.020	<0.020	<0.020	<0.020
TPH (C10-C12 aliphatic)	T219 / AR / 0.01 / mg/l	<0.01	<0.01	0.02	<0.01
TPH (C10-C12 aromatic)	T219 / AR / 0.01 / mg/l	0.07	<0.01	0.08	<0.01
TPH (C12-C16 aliphatic)	T219 / AR / 0.01 / mg/l	<0.01	<0.01	<0.01	<0.01
TPH (C12-C16 aromatic)	T219 / AR / 0.01 / mg/l	0.63	0.20	0.14	0.01
TPH (C16-C21 aliphatic)	T219 / AR / 0.01 / mg/l	<0.01	<0.01	<0.01	<0.01
TPH (C16-C21 aromatic)	T219 / AR / 0.01 / mg/l	0.42	0.12	0.26	0.06
TPH (C21-C35 aliphatic)	T219 / AR / 0.01 / mg/l	0.02	0.01	0.02	0.02
TPH (C21-C35 aromatic)	T219 / AR / 0.01 / mg/l	0.17	0.04	0.19	0.10

Concept Reference: 750492
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

	Concept Reference	750492 001	750492 002	750492 003	750492 004
	Customer Sample Reference	MW2-W12	MW3-W12	MW5-W12	MW6-W12
	Date Sampled	05-JUL-2018	05-JUL-2018	05-JUL-2018	05-JUL-2018

Determinand	Method	Test Sample	LOD	Units				
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
1,2-dibromoethane	T54	AR	1	µg/l	<1	<1	<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	<5	<5	<5	<5
Bromomethane	T54	AR	1	µg/l	<1	<1	<1	<1
Isopropyl benzene	T54	AR	1	µg/l	<1	<1	<1	<1
Styrene	T54	AR	1	µg/l	<1	<1	<1	<1
T-Butylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1
n-Propylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	<1	<1	<1	<1
Bromoform	T54	AR	1	µg/l	<1	<1	<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l	<1	<1	<1	<1
Benzene	T54	AR	1	µg/l	(13) 1	(13) 6	<1	<1
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1
S-Butylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1
Tetrachloroethene	T54	AR	1	µg/l	<1	<1	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	<1	<1	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	<1	<1	<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
2-Chlorotoluene	T54	AR	1	µg/l	<1	<1	<1	<1
Carbon tetrachloride	T54	AR	1	µg/l	<1	<1	<1	<1
Chloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
Chloroform	T54	AR	1	µg/l	<1	<1	<1	<1
Dibromochloromethane	T54	AR	1	µg/l	<1	<1	<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l	<1	<1	<1	<1
Trichloroethene	T54	AR	1	µg/l	<1	<1	<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l	<1	<1	<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l	<1	<1	<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	2	<1	<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l	<1	<1	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
4-Chlorotoluene	T54	AR	1	µg/l	<1	<1	<1	<1
Bromobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
Chloromethane	T54	AR	1	µg/l	<1	<1	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	<1	<1	<1	<1
Vinyl chloride	T54	AR	1	µg/l	<1	<1	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1	<1	<1
O Xylene	T54	AR	1	µg/l	<1	<1	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
Bromodichloromethane	T54	AR	1	µg/l	<1	<1	<1	<1
m/p ethyl toluene	T54	AR	5	µg/l	<5	<5	<5	<5
n-Butylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1
Bromochloromethane	T54	AR	1	µg/l	<1	<1	<1	<1
Chlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1
Dibromomethane	T54	AR	1	µg/l	<1	<1	<1	<1

Concept Reference: 750492
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

	Concept Reference	750492 001	750492 002	750492 003	750492 004
	Customer Sample Reference	MW2-W12	MW3-W12	MW5-W12	MW6-W12
	Date Sampled	05-JUL-2018	05-JUL-2018	05-JUL-2018	05-JUL-2018
Determinand	Method / Test Sample / LOD / Units				
Dichlorodifluoromethane	T54 / AR / 1 / µg/l	<1	<1	<1	<1

Index to symbols used in 750492-1

Value	Description
AR	As Received
F	Filtered
13	Results have been blank corrected.
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T264	Probe (Incubation Carbonaceous) (5 Days)
T281	ICP/MS (Filtered)
T7	Probe
T54	GC/MS (Headspace)
T221	Colorimetry (CE)
T219	GC/FID (SE)
T649	ICP/OES (Calc)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-004
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-004
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-004
BOD (ATU)	T264	F	1	mg/l	N	001-004
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-004
pH	T7	F			U	001-004
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-004
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-004
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-004
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-004
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-004
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-004
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-004
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-004
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-004
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-004
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-004
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-004
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-004
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-004
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-004
1,2-dibromoethane	T54	AR	1	µg/l	N	001-004
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-004
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-004
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-004
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-004
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-004
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-004
2-Chlorotoluene	T54	AR	1	µg/l	U	001-004
4-Chlorotoluene	T54	AR	1	µg/l	U	001-004
Bromobenzene	T54	AR	1	µg/l	U	001-004

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Bromochloromethane	T54	AR	1	µg/l	U	001-004
Bromodichloromethane	T54	AR	1	µg/l	U	001-004
Bromoform	T54	AR	1	µg/l	N	001-004
Bromomethane	T54	AR	1	µg/l	U	001-004
Carbon tetrachloride	T54	AR	1	µg/l	U	001-004
Chlorobenzene	T54	AR	1	µg/l	U	001-004
Chloroethane	T54	AR	1	µg/l	U	001-004
Chloroform	T54	AR	1	µg/l	U	001-004
Chloromethane	T54	AR	1	µg/l	U	001-004
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-004
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-004
Dibromochloromethane	T54	AR	1	µg/l	U	001-004
Dibromomethane	T54	AR	1	µg/l	U	001-004
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-004
EthylBenzene	T54	AR	1	µg/l	U	001-004
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-004
Isopropyl benzene	T54	AR	1	µg/l	U	001-004
M/P Xylene	T54	AR	1	µg/l	U	001-004
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-004
O Xylene	T54	AR	1	µg/l	U	001-004
S-Butylbenzene	T54	AR	1	µg/l	U	001-004
Styrene	T54	AR	1	µg/l	U	001-004
T-Butylbenzene	T54	AR	1	µg/l	U	001-004
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-004
Tetrachloroethene	T54	AR	1	µg/l	U	001-004
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-004
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-004
Trichloroethene	T54	AR	1	µg/l	U	001-004
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-004
Vinyl chloride	T54	AR	1	µg/l	U	001-004
m/p ethyl toluene	T54	AR	5	µg/l	U	001-004
n-Butylbenzene	T54	AR	1	µg/l	U	001-004
n-Propylbenzene	T54	AR	1	µg/l	U	001-004
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-004
Benzene	T54	AR	1	µg/l	U	001-004
Toluene	T54	AR	1	µg/l	U	001-004
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-004
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-004
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-004

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Report Number: 767293-2

Date of Report: 24-Sep-2018

Customer: Resource Environmental Consultants Ltd
Unit 6
The Incubator
Enterprise Campus
Alconbury Weald
Huntingdon
IP33 4WZ

Customer Contact: Mr Richard Hodkin

Customer Job Reference: 1CO102896
Customer Purchase Order: 005451
Customer Site Reference: Rustington
Date Job Received at Concept: 14-Sep-2018
Date Analysis Started: 17-Sep-2018
Date Analysis Completed: 24-Sep-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked
and authorised by :
Aislinn Arthey
Customer Service Advisor

Issued by :
Aislinn Arthey
Customer Service Advisor

Concept Reference: 767293
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

				Concept Reference	767293 001	767293 002	767293 003	767293 004	767293 005
				Customer Sample Reference	MW1-W13	MW2-W13	MW3-W13	MW4-W13	MW5-W13
				Date Sampled	12-SEP-2018	12-SEP-2018	12-SEP-2018	13-SEP-2018	13-SEP-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Fe (Dissolved)	T281	F	0.005	mg/l	**0.19**	**0.081**	**0.060**	**0.012**	**0.17**
Mn (Dissolved)	T281	F	0.001	mg/l	(110) <0.010	**0.049**	**0.011**	**0.11**	**0.61**
Total Hardness expressed as CaCO3	T649	F	10	mg/l	**1600**	**1700**	**1900**	**260**	**1200**
BOD (ATU)	T264	F	1	mg/l	**6**	**15**	**6**	**9**	**12**
Chemical Oxygen Demand	T221	F	20	mg/l	**480**	**1100**	**620**	**45**	**210**
pH	T7	F			**6.54**	**7.66**	**7.71**	**8.19**	**7.94**

Concept Reference: 767293
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

				Concept Reference	767293 006	767293 007
				Customer Sample Reference	MW6-W13	MW7-W13
				Date Sampled	13-SEP-2018	13-SEP-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Fe (Dissolved)	T281	F	0.005	mg/l	**0.11**	<0.005
Mn (Dissolved)	T281	F	0.001	mg/l	**0.13**	<0.001
Total Hardness expressed as CaCO3	T649	F	10	mg/l	**1600**	**980**
BOD (ATU)	T264	F	1	mg/l	**12**	<1
Chemical Oxygen Demand	T221	F	20	mg/l	**350**	**140**
pH	T7	F			**7.65**	**11.6**

Concept Reference: 767293
Project Site: Rustington
Customer Reference: 1CO102896

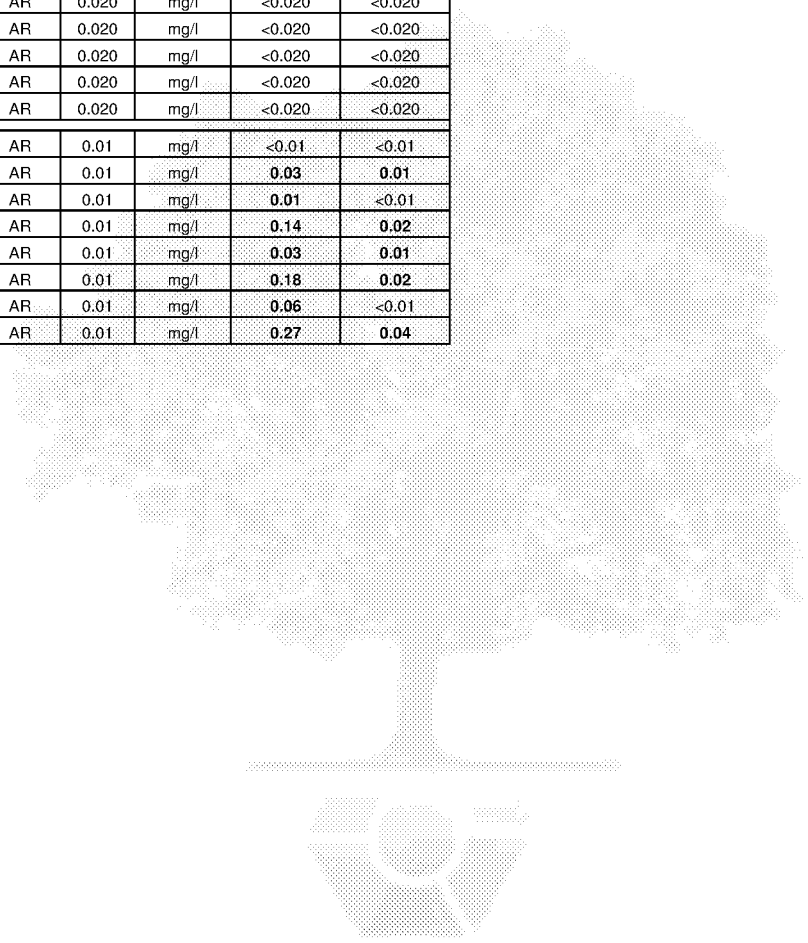
Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

				Concept Reference	767293 001	767293 002	767293 003	767293 004	767293 005
				Customer Sample Reference	MW1-W13	MW2-W13	MW3-W13	MW4-W13	MW5-W13
				Date Sampled	12-SEP-2018	12-SEP-2018	12-SEP-2018	13-SEP-2018	13-SEP-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Benzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Toluene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
EthylBenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
M/P Xylene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
O Xylene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	(2) <0.20	(2) <0.20	(2) <0.20	<0.020	**0.094**
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	(2) <0.20	(2) <0.20	(2) <0.20	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	(2) <0.20	(2) <0.20	(2) <0.20	<0.020	**0.045**
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	(2) <0.20	(2) <0.20	(2) <0.20	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	(2) <0.20	(2) <0.20	(2) <0.20	<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	(2) <0.20	(2) <0.20	(2) <0.20	<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	<0.01	**0.08**	**0.01**	<0.01	**0.35**
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	**0.01**	<0.01	**0.01**	**0.01**	**0.02**
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	<0.01	**0.40**	**0.05**	**0.02**	**0.28**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	**0.03**	**0.02**	**0.03**	**0.02**	**0.03**
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	**0.02**	**0.29**	**0.04**	**0.07**	**0.31**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	**0.19**	**0.08**	**0.13**	**0.06**	**0.08**
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	**0.02**	**0.37**	**0.07**	**0.19**	**0.33**

Concept Reference: 767293
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

				Concept Reference	**767293 006**	**767293 007**
				Customer Sample Reference	**MW6-W13**	**MW7-W13**
				Date Sampled	**13-SEP-2018**	**13-SEP-2018**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benzene	T54	AR	1	µg/l	(13) **3**	<1
Toluene	T54	AR	1	µg/l	**3**	<1
EthylBenzene	T54	AR	1	µg/l	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1
O Xylene	T54	AR	1	µg/l	**2**	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	**0.03**	**0.01**
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	**0.01**	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	**0.14**	**0.02**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	**0.03**	**0.01**
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	**0.18**	**0.02**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	**0.06**	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	**0.27**	**0.04**



Concept Reference: 767293
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

		Concept Reference	767293 001	767293 002	767293 003	767293 004	767293 005
		Customer Sample Reference	MW1-W13	MW2-W13	MW3-W13	MW4-W13	MW5-W13
		Date Sampled	12-SEP-2018	12-SEP-2018	12-SEP-2018	13-SEP-2018	13-SEP-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Methyl tert-Butyl Ether	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
2-Chlorotoluene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Bromomethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Chlorobenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
T-Butylbenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
m/p ethyl toluene	T54	AR	5	µg/l	(2) <50	(2) <50	(2) <50	<5	<5
1,3-Dichlorobenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
4-Chlorotoluene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Bromobenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
S-Butylbenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Styrene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Tetrachloroethene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Vinyl chloride	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
EthylBenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Toluene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Bromoform	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Chloromethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Dibromomethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Benzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Trichloroethene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Bromochloromethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Chloroform	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	**19**	<1
Dibromochloromethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Isopropyl benzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
n-Propylbenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
M/P Xylene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	(2) <50	(2) <10	(2) <50	<5	<5
Carbon tetrachloride	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
O Xylene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Bromodichloromethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	**2**	<1
Chloroethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,2-dibromoethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1

Concept Reference: 767293
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

				Concept Reference	**767293 001**	**767293 002**	**767293 003**	**767293 004**	**767293 005**
				Customer Sample Reference	**MW1-W13**	**MW2-W13**	**MW3-W13**	**MW4-W13**	**MW5-W13**
				Date Sampled	**12-SEP-2018**	**12-SEP-2018**	**12-SEP-2018**	**13-SEP-2018**	**13-SEP-2018**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
n-Butylbenzene	T54	AR	1	µg/l	(2) <10	(2) <10	(2) <10	<1	<1

Concept Reference: 767293
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	767293 006	767293 007
					Customer Sample Reference	MW6-W13	MW7-W13
					Date Sampled	13-SEP-2018	13-SEP-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1
Styrene	T54	AR	1	µg/l		<1	<1
Tetrachloroethene	T54	AR	1	µg/l		<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1
Toluene	T54	AR	1	µg/l		3	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1
Benzene	T54	AR	1	µg/l	(13)	3	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Bromochloromethane	T54	AR	1	µg/l		<1	<1
Chloroform	T54	AR	1	µg/l		3	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
n-Propylbenzene	T54	AR	1	µg/l		<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
O Xylene	T54	AR	1	µg/l		2	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1

Concept Reference: 767293
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

Concept Reference	**767293 006**	**767293 007**
Customer Sample Reference	**MW6-W13**	**MW7-W13**
Date Sampled	**13-SEP-2018**	**13-SEP-2018**

Determinand	Method	Test Sample	LOD	Units		
n-Butylbenzene	T54	AR	1	µg/l	<1	<1

Index to symbols used in 767293-2

Value	Description
AR	As Received
F	Filtered
110	LOD raised due to low internal standard recovery.
2	LOD Raised Due to Matrix Interference
13	Results have been blank corrected.
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T649	ICP/OES (Calc)
T54	GC/MS (Headspace)
T7	Probe
T219	GC/FID (SE)
T264	Probe (Incubation Carbonaceous) (5 Days)
T221	Colorimetry (CE)
T281	ICP/MS (Filtered)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-007
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-007
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-007
BOD (ATU)	T264	F	1	mg/l	N	001-007
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-007
pH	T7	F			U	001-007
M/P Xylene	T54	AR	1	µg/l	U	001-007
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-007
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-007
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-007
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,2-dibromoethane	T54	AR	1	µg/l	N	001-007
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-007
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
2-Chlorotoluene	T54	AR	1	µg/l	U	001-007
4-Chlorotoluene	T54	AR	1	µg/l	U	001-007
Benzene	T54	AR	1	µg/l	U	001-007
Bromobenzene	T54	AR	1	µg/l	U	001-007
Bromochloromethane	T54	AR	1	µg/l	U	001-007
Bromodichloromethane	T54	AR	1	µg/l	U	001-007
Bromoform	T54	AR	1	µg/l	N	001-007
Bromomethane	T54	AR	1	µg/l	U	001-007
Carbon tetrachloride	T54	AR	1	µg/l	U	001-007
Chlorobenzene	T54	AR	1	µg/l	U	001-007
Chloroethane	T54	AR	1	µg/l	U	001-007
Chloroform	T54	AR	1	µg/l	U	001-007
Chloromethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Dibromochloromethane	T54	AR	1	µg/l	U	001-007
Dibromomethane	T54	AR	1	µg/l	U	001-007
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-007
EthylBenzene	T54	AR	1	µg/l	U	001-007
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-007
Isopropyl benzene	T54	AR	1	µg/l	U	001-007
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-007
O Xylene	T54	AR	1	µg/l	U	001-007
S-Butylbenzene	T54	AR	1	µg/l	U	001-007
Styrene	T54	AR	1	µg/l	U	001-007
T-Butylbenzene	T54	AR	1	µg/l	U	001-007
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
m/p ethyl toluene	T54	AR	5	µg/l	U	001-007
n-Butylbenzene	T54	AR	1	µg/l	U	001-007
n-Propylbenzene	T54	AR	1	µg/l	U	001-007
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-007

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

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Report Number: 775541-2

Date of Report: 25-Oct-2018

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Tim Conibear

Customer Job Reference: 1CO102896
Customer Purchase Order: 005644
Customer Site Reference: Rustington
Date Job Received at Concept: 18-Oct-2018
Date Analysis Started: 18-Oct-2018
Date Analysis Completed: 25-Oct-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked and authorised by :
Aislinn Arthey
Customer Service Advisor

Issued by :
Aislinn Arthey
Customer Service Advisor

Concept Reference: 775541
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

					Concept Reference	775541 001	775541 002	775541 003	775541 004	775541 005
					Customer Sample Reference	MW1-W14	MW2-W14	MW3-W14	MW4-W14	MW5-W14
					Date Sampled	16-OCT-2018	16-OCT-2018	16-OCT-2018	16-OCT-2018	16-OCT-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Fe (Dissolved)	T281	F	0.005	mg/l		(149) <0.050	(149) <0.050	(149) <0.050	0.45	0.049
Mn (Dissolved)	T281	F	0.001	mg/l		(149) <0.010	1.6	0.055	0.037	0.38
Total Hardness expressed as CaCO3	T649	F	10	mg/l		1800	1600	1600	190	1200
BOD (ATU)	T264	F	1	mg/l		2	4	3	6	12
Chemical Oxygen Demand	T221	F	20	mg/l		260	240	180	30	110
pH	T7	F				7.41	6.96	6.92	7.52	7.52

Concept Reference: 775541
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
Miscellaneous

					Concept Reference	775541 006	775541 007
					Customer Sample Reference	MW6-W14	MW7-W14
					Date Sampled	17-OCT-2018	17-OCT-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Fe (Dissolved)	T281	F	0.005	mg/l		0.26	0.035
Mn (Dissolved)	T281	F	0.001	mg/l		0.080	(149) <0.005
Total Hardness expressed as CaCO3	T649	F	10	mg/l		1000	890
BOD (ATU)	T264	F	1	mg/l		10	11
Chemical Oxygen Demand	T221	F	20	mg/l		100	74
pH	T7	F				7.70	11.3

Concept Reference: 775541
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

					Concept Reference	775541 001	775541 002	775541 003	775541 004	775541 005
					Customer Sample Reference	MW1-W14	MW2-W14	MW3-W14	MW4-W14	MW5-W14
					Date Sampled	16-OCT-2018	16-OCT-2018	16-OCT-2018	16-OCT-2018	16-OCT-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Benzene	T54	AR	1	µg/l		<1	<1	(13) 1	<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Toluene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1	20	<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020	<0.020	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020	<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020	<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020	<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020	<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020	<0.020	<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l		<0.01	0.05	0.03	<0.01	<0.01
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01	<0.01	<0.01	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l		<0.01	0.69	0.35	<0.01	0.06
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l		<0.01	0.02	0.01	<0.01	0.02
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l		<0.01	0.41	0.14	0.04	0.24
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l		0.02	0.05	0.03	0.03	0.03
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l		<0.01	0.47	0.13	0.21	0.31

Concept Reference: 775541
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
TPH (CWG) with MTBE & BTEX SE

					Concept Reference	775541 006	775541 007
					Customer Sample Reference	MW6-W14	MW7-W14
					Date Sampled	17-OCT-2018	17-OCT-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Benzene	T54	AR	1	µg/l		<1	<1
EthylBenzene	T54	AR	1	µg/l		<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1
Toluene	T54	AR	1	µg/l		<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l		<0.020	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l		<0.01	**0.03**
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l		<0.01	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l		**0.03**	**0.09**
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l		<0.01	**0.02**
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l		**0.14**	**0.09**
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l		**0.03**	**0.03**
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l		**0.29**	**0.16**

Concept Reference: 775541
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	775541 001	775541 002	775541 003	775541 004	775541 005
					Customer Sample Reference	MW1-W14	MW2-W14	MW3-W14	MW4-W14	MW5-W14
					Date Sampled	16-OCT-2018	16-OCT-2018	16-OCT-2018	16-OCT-2018	16-OCT-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
EthylBenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Toluene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Styrene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5	<5	<5	<5
n-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Benzene	T54	AR	1	µg/l		<1	<1	(13) 1	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1	20	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5	<5	<5	<5
Bromochloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1	<1	<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
n-Propylbenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1	<1	<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1	<1	<1	<1

Concept Reference: 775541
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

				Concept Reference	**775541 001**	**775541 002**	**775541 003**	**775541 004**	**775541 005**
				Customer Sample Reference	**MW1-W14**	**MW2-W14**	**MW3-W14**	**MW4-W14**	**MW5-W14**
				Date Sampled	**16-OCT-2018**	**16-OCT-2018**	**16-OCT-2018**	**16-OCT-2018**	**16-OCT-2018**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Tetrachloroethene	T54	AR	1	µg/l	<1	<1	<1	<1	<1



Concept Reference: 775541
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

					Concept Reference	775541 006	775541 007
					Customer Sample Reference	MW6-W14	MW7-W14
					Date Sampled	17-OCT-2018	17-OCT-2018
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
EthylBenzene	T54	AR	1	µg/l		<1	<1
1,2-dibromoethane	T54	AR	1	µg/l		<1	<1
Bromobenzene	T54	AR	1	µg/l		<1	<1
Tertiary amyl methyl ether	T54	AR	1	µg/l		<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l		<1	<1
Toluene	T54	AR	1	µg/l		<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l		<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
Bromodichloromethane	T54	AR	1	µg/l		<1	<1
Carbon tetrachloride	T54	AR	1	µg/l		<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l		<1	<1
M/P Xylene	T54	AR	1	µg/l		<1	<1
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
2-Chlorotoluene	T54	AR	1	µg/l		<1	<1
4-Chlorotoluene	T54	AR	1	µg/l		<1	<1
Chlorobenzene	T54	AR	1	µg/l		<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l		<1	<1
S-Butylbenzene	T54	AR	1	µg/l		<1	<1
Styrene	T54	AR	1	µg/l		<1	<1
m/p ethyl toluene	T54	AR	5	µg/l		<5	<5
n-Butylbenzene	T54	AR	1	µg/l		<1	<1
O Xylene	T54	AR	1	µg/l		<1	<1
Chloromethane	T54	AR	1	µg/l		<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l		<1	<1
Benzene	T54	AR	1	µg/l		<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l		<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l		<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l		<1	<1
1,2,4-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l		<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Ethyl-2-Methylbenzene	T54	AR	5	µg/l		<5	<5
Bromochloromethane	T54	AR	1	µg/l		<1	<1
Bromoform	T54	AR	1	µg/l		<1	<1
Chloroform	T54	AR	1	µg/l		<1	<1
T-Butylbenzene	T54	AR	1	µg/l		<1	<1
Trichloroethene	T54	AR	1	µg/l		<1	<1
Vinyl chloride	T54	AR	1	µg/l		<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l		<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l		<1	<1
Chloroethane	T54	AR	1	µg/l		<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l		<1	<1
Isopropyl benzene	T54	AR	1	µg/l		<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l		<1	<1
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l		<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l		<1	<1
Dibromochloromethane	T54	AR	1	µg/l		<1	<1
Dibromomethane	T54	AR	1	µg/l		<1	<1
Hexachlorobutadiene	T54	AR	1	µg/l		<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l		<1	<1
n-Propylbenzene	T54	AR	1	µg/l		<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l		<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l		<1	<1
1,2,3-Trichlorobenzene	T54	AR	1	µg/l		<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l		<1	<1
Bromomethane	T54	AR	1	µg/l		<1	<1

Concept Reference: 775541
Project Site: Rustington
Customer Reference: 1CO102896

Water Analysed as Water
VOC (SE)

Concept Reference	**775541 006**	**775541 007**
Customer Sample Reference	**MW6-W14**	**MW7-W14**
Date Sampled	**17-OCT-2018**	**17-OCT-2018**

Determinand	Method	Test Sample	LOD	Units		
Tetrachloroethene	T54	AR	1	µg/l	<1	<1

Index to symbols used in 775541-2

Value	Description
AR	As Received
F	Filtered
13	Results have been blank corrected.
149	LOD raised due to high dissolved solids
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T7	Probe
T281	ICP/MS (Filtered)
T219	GC/FID (SE)
T264	Probe (Incubation Carbonaceous) (5 Days)
T54	GC/MS (Headspace)
T221	Colorimetry (CE)
T649	ICP/OES (Calc)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	N	001-007
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,1-Dichloroethylene	T54	AR	1	µg/l	U	001-007
1,1-Dichloropropene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,3-Trichloropropane	T54	AR	1	µg/l	N	001-007
1,2,4-Trichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,2-Dibromo-3-Chloropropane	T54	AR	1	µg/l	N	001-007
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-007
1,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,2-dibromoethane	T54	AR	1	µg/l	N	001-007
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
1,3-Dichloropropane	T54	AR	1	µg/l	U	001-007
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	001-007
Ethyl-2-Methylbenzene	T54	AR	5	µg/l	U	001-007
2,2-Dichloropropane	T54	AR	1	µg/l	U	001-007
2-Chlorotoluene	T54	AR	1	µg/l	U	001-007
4-Chlorotoluene	T54	AR	1	µg/l	U	001-007
Bromobenzene	T54	AR	1	µg/l	U	001-007
Bromochloromethane	T54	AR	1	µg/l	U	001-007
Bromodichloromethane	T54	AR	1	µg/l	U	001-007
Bromoform	T54	AR	1	µg/l	N	001-007
Bromomethane	T54	AR	1	µg/l	U	001-007
Carbon tetrachloride	T54	AR	1	µg/l	U	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Chlorobenzene	T54	AR	1	µg/l	U	001-007
Chloroethane	T54	AR	1	µg/l	U	001-007
Chloroform	T54	AR	1	µg/l	U	001-007
Chloromethane	T54	AR	1	µg/l	U	001-007
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-007
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Dibromochloromethane	T54	AR	1	µg/l	U	001-007
Dibromomethane	T54	AR	1	µg/l	U	001-007
Dichlorodifluoromethane	T54	AR	1	µg/l	N	001-007
EthylBenzene	T54	AR	1	µg/l	U	001-007
Hexachlorobutadiene	T54	AR	1	µg/l	N	001-007
Isopropyl benzene	T54	AR	1	µg/l	U	001-007
M/P Xylene	T54	AR	1	µg/l	U	001-007
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-007
S-Butylbenzene	T54	AR	1	µg/l	U	001-007
Styrene	T54	AR	1	µg/l	U	001-007
T-Butylbenzene	T54	AR	1	µg/l	U	001-007
Tertiary amyl methyl ether	T54	AR	1	µg/l	U	001-007
Tetrachloroethene	T54	AR	1	µg/l	U	001-007
Toluene	T54	AR	1	µg/l	U	001-007
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	001-007
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	001-007
Trichloroethene	T54	AR	1	µg/l	U	001-007
Trichlorofluoromethane	T54	AR	1	µg/l	U	001-007
Vinyl chloride	T54	AR	1	µg/l	U	001-007
m/p ethyl toluene	T54	AR	5	µg/l	U	001-007
n-Butylbenzene	T54	AR	1	µg/l	U	001-007
n-Propylbenzene	T54	AR	1	µg/l	U	001-007
p-Isopropyltoluene	T54	AR	1	µg/l	U	001-007
Benzene	T54	AR	1	µg/l	U	001-007
O Xylene	T54	AR	1	µg/l	U	001-007
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001-007
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001-007
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001-007
Fe (Dissolved)	T281	F	0.005	mg/l	U	001-007
Mn (Dissolved)	T281	F	0.001	mg/l	U	001-007
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001-007
BOD (ATU)	T264	F	1	mg/l	N	001-007
Chemical Oxygen Demand	T221	F	20	mg/l	N	001-007
pH	T7	F			U	001-007

APPENDIX VII - B

SOFT LANDSCAPING VALIDATION

ARUN DISTRICT COUNCIL R/93/19/DOC

TIM O'HARE ASSOCIATES
SOIL & LANDSCAPE CONSULTANCY

Mr Mike Jupp
The Woodhorn Group
Woodhorn Business Centre
Woodhorn Lane
Oving
Chichester
West Sussex PO20 2BX

6th November 2018
Our Ref: TOHA/18/7825/SS
Your Ref: see below

Dear Sirs

Topsoil Analysis Report: Tangmere Compost Site

We have completed the analysis of the soil sample recently submitted, referenced *20mm Topsoil,* and have pleasure reporting our findings.

The purpose of the analysis was to determine the suitability of the sample for general landscape purposes (trees, shrubs, amenity grass). In addition, this sample has been assessed to determine its compliance with the requirements of the British Standard for Topsoil *(BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil).*

This report presents the results of analysis for the sample submitted to our office, and it should be considered 'indicative' of the topsoil source. The report and results should therefore not be used by third parties as a means of verification or validation testing or waste designation purposes, especially after the topsoil has left the Woodhorn Group site.

SAMPLE EXAMINATION

The sample was described as a dark brown (Munsell Colour 10YR 3/3), slightly moist, friable, non-calcareous SANDY LOAM with a weakly developed, fine to medium sub-angular blocky structure*. The sample was moderately stony and contained common organic fines and woody fragments. No unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.

*This appraisal of soil structure was made from examination of a disturbed sample(s). Structure is a key soil characteristic that may only be accurately assessed by examination in an in-situ state.

Tim O'Hare Associates LLP
Howbery Park Wallingford Oxfordshire OX10 8BA
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www.toha.co.uk

ARUN DISTRICT COUNCIL R/93/19/DOC
Registered in England No. OC324049 Registered Office: The Innovation Centre, Howbery Park, Wallingford, Oxfordshire OX10 8BA

ANALYTICAL SCHEDULE

The sample was submitted to a UKAS and MCERTS accredited laboratory for a range of physical and chemical tests to confirm the composition and fertility of the soil, and the concentration of selected potential contaminants. The following parameters were determined:

- particle size analysis (sand, silt, clay);
- stone content (2-20mm, 20-50mm, >50mm);
- pH and electrical conductivity values;
- exchangeable sodium percentage;
- major plant nutrients (N, P, K, Mg);
- organic matter content;
- C:N ratio;
- heavy metals (As, B, Cd, Cr, Cu, Pb, Hg, Ni, Se, Zn);
- total cyanide and total (mono) phenols;
- speciated PAHs (US EPA16 suite);
- aromatic and aliphatic TPH (C5-C35 banding);
- benzene, toluene, ethylbenzene, xylene (BTEX).

The results are presented on the attached Certificate of Analysis and an interpretation of the results is given below.

RESULTS OF ANALYSIS

Particle Size Analysis and Stone Content

The sample fell into the *sandy loam* texture class, which is usually considered suitable for general landscape applications provided the soil's physical condition is satisfactory.

The stone content of the sample was moderate and, as such, stones should not restrict the use of the soil for general landscape purposes.

pH and Electrical Conductivity Values

The sample was slightly alkaline in reaction (pH 7.2), with a pH value that would be suitable for general landscape purposes.

The electrical conductivity (salinity) value (water extract) was moderate, which indicates that soluble salts should not be present at levels that would be harmful to plants.

The electrical conductivity value by $CaSO_4$ extract (*BS3882* requirement) fell below the maximum specified value (3300 µS/cm) given in *BS3882:2015 – Table 1*.

Organic Matter and Fertility Status

The sample was adequately to well-supplied with organic matter and all major plant nutrients.

The C:N ratio of the sample was acceptable for general landscape purposes.

Potential Contaminants

With reference to *BS3882:2015 - Table 1*: Notes 3 and 4, there is a requirement to confirm levels of potential contaminants in relation to the topsoil's proposed end use. This includes human health, environmental protection and metals considered toxic to plants. In the absence of site-specific assessment criteria, the concentrations that affect human health have been compared with the *residential with homegrown produce* land use in the Suitable For Use Levels (S4ULs) presented in *The LQM/CIEH S4ULs for Human Health Risk Assessment* (2015) and the DEFRA SP1010: *Development of Category 4 Screening Levels* (C4SLs) *for Assessment of Land Affected by Contamination – Policy Companion Document* (2014).

Of the potential contaminants determined, none was found at levels that exceeded their guideline values.

The Woodhorn Group

Phytotoxic Contaminants

Of the phytotoxic (toxic to plants) contaminants determined (copper, nickel, zinc), none was found at levels that exceeded the maximum permissible levels specified in *BS3882:2015 – Table 1*.

CONCLUSION

The purpose of the analysis was to determine the suitability of the topsoil sample for general landscape purposes. The analysis has also been undertaken to determine the sample's compliance with the requirements of the British Standard for Topsoil *(BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil)*.

From the soil examination and subsequent laboratory analysis, the sample was described as a slightly alkaline, non-saline sandy loam with a weakly developed structure and moderate stone content. The sample contained sufficient reserves of organic matter and major plant nutrients. Of the potential contaminants determined, none exceeded their respective guideline values.

To conclude, based on our findings, the topsoil represented by this sample would be considered suitable for general landscape purposes (trees, shrubs and amenity grass), provided the physical condition of the soil is satisfactory.

The topsoil was also fully compliant with the requirements of the British Standard for Topsoil *(BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil)*.

RECOMMENDATIONS

Soil Handling Recommendations

It is important to maintain the physical condition of the soil and avoid structural damage during all phases of soil handling (e.g. stockpiling, respreading, cultivating, planting, seeding or turfing). As a consequence, soil handling operations should be carried out when soil is reasonably dry and non-plastic (friable) in consistency.

It is important to ensure that the soil is not unnecessarily compacted by trampling or trafficking by site machinery, and soil handling should be stopped during and after heavy rainfall and not continued until the soil is friable in consistency. If the soil is structurally damaged and compacted at any stage during the course of soiling or landscaping works, it should be cultivated appropriately to relieve the compaction and to restore the soil's structure prior to any planting, turfing or seeding.

Further details on soil handling are provided in Annex A of *BS3882:2015.*

Further guidance on the management, preparation and handling of soils is provided in the DEFRA publication *Construction code of practice for the sustainable use of soils on construction sites*, 2009.

We hope this report meets with your approval and provides the necessary information. Please do not hesitate to contact the undersigned if we can be of further assistance.

Yours faithfully

Matthew Lowry
BSc MSc
Graduate Soil Scientist

Laura Hathaway-Jenkins
BSc MSc EngD MISoilSci
Senior Associate

For & on behalf of Tim O'Hare Associates LLP

The Woodhorn Group

TIM O'HARE ASSOCIATES
SOIL & LANDSCAPE CONSULTANCY

Client:	**The Woodhorn Group**
Project:	**Tangmere Compost Site**
Job:	**Topsoil Analysis (BS3882:2015)**
Date:	**06/11/2018**
Job Ref No:	**TOHA/18/7825/SS**

Sample Reference			**20mm Topsoil**
		Accreditation	
Clay (<0.002mm)	%	UKAS	16
Silt (0.002-0.063mm)	%	UKAS	15
Sand (0.063-2.0mm)	%	UKAS	69
Texture Class (UK Classification)	--	UKAS	SL
Stones (2-20mm)	% DW	GLP	15
Stones (20-50mm)	% DW	GLP	0
Stones (>50mm)	% DW	GLP	0
pH Value (1:2.5 water extract)	units	UKAS	7.2
Electrical Conductivity (1:2.5 water extract)	uS/cm	UKAS	1325
Electrical Conductivity (1:2 $CaSO_4$ extract)	uS/cm	UKAS	3175
Exchangeable Sodium Percentage	%	UKAS	6.0
Organic Matter (LOI)	%	UKAS	6.8
Total Nitrogen (Dumas)	%	UKAS	0.29
C : N Ratio	ratio	UKAS	14
Extractable Phosphorus	mg/l	UKAS	58
Extractable Potassium	mg/l	UKAS	1305
Extractable Magnesium	mg/l	UKAS	246
Total Arsenic (As)	mg/kg	MCERTS	9
Total Cadmium (Cd)	mg/kg	MCERTS	< 0.2
Total Chromium (Cr)	mg/kg	MCERTS	19
Hexavalent Chromium (Cr VI)	mg/kg	MCERTS	< 4.0
Total Copper (Cu)	mg/kg	MCERTS	17
Total Lead (Pb)	mg/kg	MCERTS	18
Total Mercury (Hg)	mg/kg	MCERTS	< 0.3
Total Nickel (Ni)	mg/kg	MCERTS	20
Total Selenium (Se)	mg/kg	MCERTS	< 1.0
Total Zinc (Zn)	mg/kg	MCERTS	46
Water Soluble Boron (B)	mg/kg	MCERTS	2.5
Total Cyanide (CN)	mg/kg	MCERTS	< 1
Total (mono) Phenols	mg/kg	MCERTS	< 1.0
Naphthalene	mg/kg	MCERTS	< 0.05
Acenaphthylene	mg/kg	MCERTS	< 0.05
Acenaphthene	mg/kg	MCERTS	< 0.05
Fluorene	mg/kg	MCERTS	< 0.05
Phenanthrene	mg/kg	MCERTS	< 0.05
Anthracene	mg/kg	MCERTS	< 0.05
Fluoranthene	mg/kg	MCERTS	< 0.05
Pyrene	mg/kg	MCERTS	< 0.05
Benzo(a)anthracene	mg/kg	MCERTS	< 0.05
Chrysene	mg/kg	MCERTS	< 0.05
Benzo(b)fluoranthene	mg/kg	MCERTS	< 0.05
Benzo(k)fluoranthene	mg/kg	MCERTS	< 0.05
Benzo(a)pyrene	mg/kg	MCERTS	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	MCERTS	< 0.05
Dibenzo(a,h)anthracene	mg/kg	MCERTS	< 0.05
Benzo(g,h,i)perylene	mg/kg	MCERTS	< 0.05
Total PAHs (sum USEPA16)	mg/kg	MCERTS	< 0.80
Aliphatic TPH >C5 - C6	mg/kg	MCERTS	< 0.001
Aliphatic TPH >C6 - C8	mg/kg	MCERTS	< 0.001
Aliphatic TPH >C8 - C10	mg/kg	MCERTS	< 0.001
Aliphatic TPH >C10 - C12	mg/kg	MCERTS	< 1.0
Aliphatic TPH >C12 - C16	mg/kg	MCERTS	< 2.0
Aliphatic TPH >C16 - C21	mg/kg	MCERTS	< 8.0
Aliphatic TPH >C21 - C35	mg/kg	MCERTS	< 8.0
Aliphatic TPH (C5 - C35)	mg/kg	MCERTS	< 10
Aromatic TPH >C5 - C7	mg/kg	MCERTS	< 0.001
Aromatic TPH >C7 - C8	mg/kg	MCERTS	< 0.001
Aromatic TPH >C8 - C10	mg/kg	MCERTS	< 0.001
Aromatic TPH >C10 - C12	mg/kg	MCERTS	< 1.0
Aromatic TPH >C12 - C16	mg/kg	MCERTS	< 2.0
Aromatic TPH >C16 - C21	mg/kg	MCERTS	< 10
Aromatic TPH >C21 - C35	mg/kg	MCERTS	< 10
Aromatic TPH (C5 - C35)	mg/kg	MCERTS	< 10
Benzene	mg/kg	MCERTS	< 0.001
Toluene	mg/kg	MCERTS	< 0.001
Ethylbenzene	mg/kg	MCERTS	< 0.001
p & m-xylene	mg/kg	MCERTS	< 0.001
o-xylene	mg/kg	MCERTS	< 0.001
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	MCERTS	< 0.001

SL = SANDY LOAM

Visual Examination

The sample was described as a dark brown (Munsell Colour 10YR 3/3), slightly moist, friable, non-calcareous SANDY LOAM with a weakly developed, fine to medium sub-angular blocky structure. The sample was moderately stony and contained common organic fines and woody fragments. No unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.

Matthew Lowry
BSc MSc
Graduate Soil Scientist

Results of analysis should be read in conjunction with the report they were issued with.

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ARUN DISTRICT COUNCIL R/93/19/DOC

CONCEPT LIFE SCIENCES

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Concept Life Sciences

Certificate of Analysis

3 Crittall Drive
Springwood Industrial Estate
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Essex
CM7 2RT
Tel : 01376 560120
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Report Number: 791015-1

Date of Report: 31-Dec-2018

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Richard Hodkin

Customer Job Reference: 1CO102896
Customer Purchase Order: 006034
Customer Site Reference: Rustington
Date Job Received at Concept: 18-Dec-2018
Date Analysis Started: 19-Dec-2018
Date Analysis Completed: 31-Dec-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked and authorised by :
Aislinn Arthey
Customer Service Advisor

Issued by :
Aislinn Arthey
Customer Service Advisor

Concept Reference: 791015
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
REC South Soil Suite

				Concept Reference	791015 001	791015 002	791015 003	791015 004	791015 005
				Customer Sample Reference	TP101 ES1 @ 0.50-0.60m	TP102 ES1 @ 0.50-0.60m (0.50-0.61m)	TP103 ES1 @ 0.45-0.55m	TP104 ES1 @ 0.50-0.60m	TP105 ES1 @ 0.40-0.50m
				Date Sampled	18-DEC-2018	18-DEC-2018	18-DEC-2018	18-DEC-2018	18-DEC-2018
				Matrix Class	Clay	Clay	Sandy Soil	Sandy Soil	Clay
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Antimony	T257	A40	5	mg/kg	<5	<5	<5	<5	<5
Arsenic	T257	A40	2	mg/kg	11	10	10	10	11
Barium	T257	A40	2	mg/kg	78	84	89	110	83
Beryllium	T245	A40	0.5	mg/kg	0.8	0.8	0.7	0.6	0.9
Boron (water-soluble)	T82	A40	1	mg/kg	<1	<1	<1	<1	<1
Cadmium	T257	A40	0.1	mg/kg	<0.1	0.1	0.2	0.1	0.2
Chromium	T257	A40	0.5	mg/kg	23	23	21	19	25
Copper	T257	A40	2	mg/kg	19	21	22	19	25
Lead	T257	A40	2	mg/kg	21	33	43	22	44
Mercury	T245	A40	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	T257	A40	0.5	mg/kg	20	19	17	15	20
Selenium	T257	A40	3	mg/kg	<3	<3	<3	<3	<3
Vanadium	T257	A40	0.1	mg/kg	33	32	32	26	35
Zinc	T257	A40	2	mg/kg	58	76	83	74	84
Asbestos ID	T27	A40			Asbestos not detected	Asbestos not detected	Asbestos not detected	Asbestos not detected	Asbestos not detected
Chromium VI	T6	A40	1	mg/kg	<1	<1	<1	<1	<1
pH	T7	A40			8.2	8.9	8.5	8.7	8.7
Soil Organic Matter	T287	A40	0.1	%	0.9	0.9	1.4	1.0	1.6
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	0.55	0.40	1.5	1.5	0.23
SO4(Total)	T102	A40	0.02	%	0.15	0.13	0.55	0.74	0.09
Cyanide(Total)	T921	M105	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T921	M105	1	mg/kg	<1	<1	<1	<1	<1
Moisture @40C	T277	AR	0.1	%	14	15	11	14	15
Moisture @105C	T162	AR	0.1	%	15	19	16	18	19
Retained on 2mm	T2	A40	0.1	%	13.1	2.7	23.9	6.4	0.8

Concept Reference: 791015
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
REC South Soil Suite

Concept Reference	**791015 006**
Customer Sample Reference	**TP106 ES1 @ 0.50-0.60m**
Date Sampled	**18-DEC-2018**
Matrix Class	**Clay**

Determinand	Method	Test Sample	LOD	Units	
Antimony	T257	A40	5	mg/kg	<5
Arsenic	T257	A40	2	mg/kg	**10**
Barium	T257	A40	2	mg/kg	**100**
Beryllium	T245	A40	0.5	mg/kg	**0.8**
Boron (water-soluble)	T82	A40	1	mg/kg	<1
Cadmium	T257	A40	0.1	mg/kg	**0.2**
Chromium	T257	A40	0.5	mg/kg	**22**
Copper	T257	A40	2	mg/kg	**22**
Lead	T257	A40	2	mg/kg	**41**
Mercury	T245	A40	1.0	mg/kg	<1.0
Nickel	T257	A40	0.5	mg/kg	**19**
Selenium	T257	A40	3	mg/kg	<3
Vanadium	T257	A40	0.1	mg/kg	**31**
Zinc	T257	A40	2	mg/kg	**98**
Asbestos ID	T27	A40			Asbestos not detected
Chromium VI	T6	A40	1	mg/kg	<1
pH	T7	A40			**8.4**
Soil Organic Matter	T287	A40	0.1	%	**0.9**
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	**0.65**
SO4(Total)	T102	A40	0.02	%	**0.19**
Cyanide(Total)	T921	M105	1	mg/kg	<1
Phenols(Mono)	T921	M105	1	mg/kg	<1
Moisture @40C	T277	AR	0.1	%	**13**
Moisture @105C	T162	AR	0.1	%	**17**
Retained on 2mm	T2	A40	0.1	%	**22.1**

Concept Reference: 791015
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
Total and Speciated USEPA16 PAH (SE) (MCERTS)

				Concept Reference	**791015 001**	**791015 002**	**791015 003**	**791015 004**	**791015 005**
				Customer Sample Reference	**TP101 ES1 @ 0.50-0.60m**	**TP102 ES1 @ 0.50-0.60m (0.50-0.61m)**	**TP103 ES1 @ 0.45-0.55m**	**TP104 ES1 @ 0.50-0.60m**	**TP105 ES1 @ 0.40-0.50m**
				Date Sampled	**18-DEC-2018**	**18-DEC-2018**	**18-DEC-2018**	**18-DEC-2018**	**18-DEC-2018**
				Matrix Class	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Acenaphthene	T1086	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1	**0.1**
Acenaphthylene	T1086	M105	0.1	mg/kg	**0.1**	<0.1	<0.1	<0.1	<0.1
Anthracene	T1086	M105	0.1	mg/kg	**0.3**	**0.4**	<0.1	<0.1	**0.3**
Benzo(a)Anthracene	T1086	M105	0.1	mg/kg	**1.6**	**1.1**	<0.1	<0.1	**1.6**
Benzo(a)Pyrene	T1086	M105	0.1	mg/kg	**1.7**	**1.1**	<0.1	<0.1	**1.7**
Benzo(b)fluoranthene	T1086	M105	0.1	mg/kg	**1.5**	**0.9**	<0.1	<0.1	**1.8**
Benzo(ghi)Perylene	T1086	M105	0.1	mg/kg	**1.2**	**0.7**	<0.1	<0.1	**1.3**
Benzo(k)fluoranthene	T1086	M105	0.1	mg/kg	**1.4**	**0.9**	<0.1	<0.1	**1.5**
Chrysene	T1086	M105	0.1	mg/kg	**2.4**	**1.7**	<0.1	<0.1	**2.7**
Dibenzo(ah)Anthracene	T1086	M105	0.1	mg/kg	**0.6**	**0.4**	<0.1	<0.1	**0.7**
Fluoranthene	T1086	M105	0.1	mg/kg	**2.9**	**2.9**	<0.1	<0.1	**2.4**
Fluorene	T1086	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T1086	M105	0.1	mg/kg	**1.1**	**0.6**	<0.1	<0.1	**1.2**
Naphthalene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T1086	M105	0.1	mg/kg	**0.7**	**1.7**	<0.1	<0.1	**0.6**
Pyrene	T1086	M105	0.1	mg/kg	**2.7**	**2.4**	<0.1	<0.1	**2.0**
PAH(total)	T1086	M105	0.1	mg/kg	**18**	**15**	<0.1	<0.1	**18**

Concept Reference: 791015
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
Total and Speciated USEPA16 PAH (SE) (MCERTS)

				Concept Reference	**791015 006**
				Customer Sample Reference	**TP106 ES1 @ 0.50-0.60m**
				Date Sampled	**18-DEC-2018**
				Matrix Class	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Acenaphthene	T1086	M105	0.1	mg/kg	**3.7**
Acenaphthylene	T1086	M105	0.1	mg/kg	**0.2**
Anthracene	T1086	M105	0.1	mg/kg	**5.2**
Benzo(a)Anthracene	T1086	M105	0.1	mg/kg	**7.1**
Benzo(a)Pyrene	T1086	M105	0.1	mg/kg	**6.6**
Benzo(b)fluoranthene	T1086	M105	0.1	mg/kg	**5.4**
Benzo(ghi)Perylene	T1086	M105	0.1	mg/kg	**4.5**
Benzo(k)fluoranthene	T1086	M105	0.1	mg/kg	**5.5**
Chrysene	T1086	M105	0.1	mg/kg	**11**
Dibenzo(ah)Anthracene	T1086	M105	0.1	mg/kg	**2.3**
Fluoranthene	T1086	M105	0.1	mg/kg	**17**
Fluorene	T1086	M105	0.1	mg/kg	**4.9**
Indeno(123-cd)Pyrene	T1086	M105	0.1	mg/kg	**4.0**
Naphthalene	T1086	M105	0.1	mg/kg	**0.3**
Phenanthrene	T1086	M105	0.1	mg/kg	**17**
Pyrene	T1086	M105	0.1	mg/kg	**14**
PAH(total)	T1086	M105	0.1	mg/kg	**110**

Concept Reference: 791015
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
TPH C5-C40 Banded

				Concept Reference	791015 001	791015 002	791015 003	791015 004	791015 005
				Customer Sample Reference	TP101 ES1 @ 0.50-0.60m	TP102 ES1 @ 0.50-0.60m (0.50-0.61m)	TP103 ES1 @ 0.45-0.55m	TP104 ES1 @ 0.50-0.60m	TP105 ES1 @ 0.40-0.50m
				Date Sampled	18-DEC-2018	18-DEC-2018	18-DEC-2018	18-DEC-2018	18-DEC-2018
				Matrix Class	Clay	Clay	Sandy Soil	Sandy Soil	Clay
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T219	M105	2	mg/kg	<2[13]	<2[13]	<10[9]	<10[9]	<2[13]
TPH (C12-C16)	T219	M105	2	mg/kg	<2[13]	<2[13]	<10[9]	<10[9]	<2[13]
TPH (C16-C21)	T219	M105	2	mg/kg	11[13]	12[13]	<10[9]	<10[9]	7[13]
TPH (C21-C35)	T219	M105	2	mg/kg	52[13]	44[13]	150	110	59[13]
TPH (C35-C40)	T219	M105	2	mg/kg	12[13]	10[13]	48	66	16[13]
TPH C5-C40 (sum)	T85	M105	10	mg/kg	75[13]	66[13]	200	180	82[13]

Concept Reference: 791015
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
TPH C5-C40 Banded

				Concept Reference	791015 006
				Customer Sample Reference	TP106 ES1 @ 0.50-0.60m
				Date Sampled	18-DEC-2018
				Matrix Class	Clay
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
TPH (C5-C6)	T54	M105	0.10	mg/kg	<0.10
TPH (C6-C8)	T54	M105	0.10	mg/kg	<0.10
TPH (C8-C10)	T54	M105	0.10	mg/kg	<0.10
TPH (C10-C12)	T219	M105	2	mg/kg	<10[9]
TPH (C12-C16)	T219	M105	2	mg/kg	12
TPH (C16-C21)	T219	M105	2	mg/kg	92
TPH (C21-C35)	T219	M105	2	mg/kg	240
TPH (C35-C40)	T219	M105	2	mg/kg	64
TPH C5-C40 (sum)	T85	M105	10	mg/kg	410

Index to symbols used in 791015-1

Value	Description
A40	Assisted dried < 40C
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
9	LOD raised due to dilution of sample
13	Results have been blank corrected.
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Retained on 2mm is removed before analysis
Asbestos subcontracted to REC Limited

Method Index

Value	Description
T277	Grav (1 Dec) (40 C)
T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T102	ICP/OES (HCl extract)
T162	Grav (1 Dec) (105 C)
T1086	GC/MS (GSOP12A)
T245	ICP/OES (Aqua Regia Extraction)
T257	ICP/OES (SIM) (Aqua Regia Extraction)
T7	Probe
T287	Calc TOC/0.58
T27	PLM
T921	Colorimetry (CF) (MCERT)
T6	ICP/OES
T219	GC/FID (SE)
T2	Grav
T54	GC/MS (Headspace)
T82	ICP/OES (Sim)
T85	Calc

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Antimony	T257	A40	5	mg/kg	U	001-006
Arsenic	T257	A40	2	mg/kg	M	001-006
Barium	T257	A40	2	mg/kg	U	001-006
Beryllium	T245	A40	0.5	mg/kg	U	001-006
Boron (water-soluble)	T82	A40	1	mg/kg	N	001-006
Cadmium	T257	A40	0.1	mg/kg	M	001-006
Chromium	T257	A40	0.5	mg/kg	M	001-006
Copper	T257	A40	2	mg/kg	M	001-006
Lead	T257	A40	2	mg/kg	M	001-006
Mercury	T245	A40	1.0	mg/kg	U	001-006
Nickel	T257	A40	0.5	mg/kg	M	001-006
Selenium	T257	A40	3	mg/kg	U	001-006
Vanadium	T257	A40	0.1	mg/kg	U	001-006
Zinc	T257	A40	2	mg/kg	M	001-006
Asbestos ID	T27	A40			SU	001-006
Chromium VI	T6	A40	1	mg/kg	N	001-006
pH	T7	A40			M	001-006
Soil Organic Matter	T287	A40	0.1	%	N	001-006
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	M	001-006
SO4(Total)	T102	A40	0.02	%	M	001-006
Cyanide(Total)	T921	M105	1	mg/kg	M	001-006
Phenols(Mono)	T921	M105	1	mg/kg	M	001-006
Moisture @40C	T277	AR	0.1	%	N	001-006
Moisture @105C	T162	AR	0.1	%	N	001-006
Retained on 2mm	T2	A40	0.1	%	N	001-006
TPH (C5-C6)	T54	M105	0.10	mg/kg	N	001-006
TPH (C6-C8)	T54	M105	0.10	mg/kg	N	001-006
TPH (C8-C10)	T54	M105	0.10	mg/kg	N	001-006
TPH (C10-C12)	T219	M105	2	mg/kg	U	001-006
TPH (C12-C16)	T219	M105	2	mg/kg	U	001-006
TPH (C16-C21)	T219	M105	2	mg/kg	U	001-006
TPH (C21-C35)	T219	M105	2	mg/kg	U	001-006
TPH (C35-C40)	T219	M105	2	mg/kg	N	001-006
TPH C5-C40 (sum)	T85	M105	10	mg/kg	N	001-006
Acenaphthene	T1086	M105	0.1	mg/kg	M	001-006
Acenaphthylene	T1086	M105	0.1	mg/kg	M	001-006
Anthracene	T1086	M105	0.1	mg/kg	M	001-006
Benzo(a)Anthracene	T1086	M105	0.1	mg/kg	M	001-006
Benzo(a)Pyrene	T1086	M105	0.1	mg/kg	M	001-006
Benzo(b)fluoranthene	T1086	M105	0.1	mg/kg	M	001-006
Benzo(ghi)Perylene	T1086	M105	0.1	mg/kg	M	001-006
Benzo(k)fluoranthene	T1086	M105	0.1	mg/kg	N	001-006
Chrysene	T1086	M105	0.1	mg/kg	M	001-006
Dibenzo(ah)Anthracene	T1086	M105	0.1	mg/kg	M	001-006
Fluoranthene	T1086	M105	0.1	mg/kg	M	001-006

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Fluorene	T1086	M105	0.1	mg/kg	M	001-006
Indeno(123-cd)Pyrene	T1086	M105	0.1	mg/kg	M	001-006
Naphthalene	T1086	M105	0.1	mg/kg	M	001-006
Phenanthrene	T1086	M105	0.1	mg/kg	M	001-006
Pyrene	T1086	M105	0.1	mg/kg	M	001-006
PAH(total)	T1086	M105	0.1	mg/kg	N	001-006



CONCEPT LIFE SCIENCES

Concept Life Sciences is a trading name of Concept Life Sciences Analytical & Development Services Limited registered in England and Wales (No 2514788)

Concept Life Sciences

Certificate of Analysis

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Report Number: 800893-1

Date of Report: 12-Feb-2019

Customer: Resource Environmental Consultants Ltd
Unit 6
The Incubator
Enterprise Campus
Alconbury Weald
Huntingdon
IP33 4WZ

Customer Contact: Mr Richard Hodkin

Customer Job Reference: 1CO102896
Customer Purchase Order: 006279
Customer Site Reference: Rustington
Date Job Received at Concept: 07-Feb-2019
Date Analysis Started: 07-Feb-2019
Date Analysis Completed: 12-Feb-2019

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked
and authorised by :
Mr Simon Wicks
Organic Section Head

Issued by :
Aislinn Arthey
Customer Service Advisor

Concept Reference: 800893
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
REC South Soil Suite

				Concept Reference	800893 001	800893 002	800893 003
				Customer Sample Reference	SP1 ES1	SP1 ES2	SP1 ES3
				Date Sampled	05-FEB-2019	05-FEB-2019	05-FEB-2019
				Matrix Class	Topsoil	Topsoil	Topsoil
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Antimony	T257	A40	5	mg/kg	<5	<5	<5
Arsenic	T257	A40	2	mg/kg	6	6	6
Barium	T257	A40	2	mg/kg	100	100	120
Beryllium	T245	A40	0.5	mg/kg	0.8	0.8	0.8
Boron (water-soluble)	T82	A40	1	mg/kg	<1	<1	<1
Cadmium	T257	A40	0.1	mg/kg	0.1	<0.1	<0.1
Chromium	T257	A40	0.5	mg/kg	18	14	14
Copper	T257	A40	2	mg/kg	46	20	17
Lead	T257	A40	2	mg/kg	22	20	20
Mercury	T245	A40	1.0	mg/kg	<1.0	<1.0	<1.0
Nickel	T257	A40	0.5	mg/kg	18	18	18
Selenium	T257	A40	3	mg/kg	<3	<3	<3
Vanadium	T257	A40	0.1	mg/kg	16	16	17
Zinc	T257	A40	2	mg/kg	71	51	51
Asbestos ID	T27	A40			Asbestos not detected	Asbestos not detected	Asbestos not detected
Chromium VI	T6	A40	1	mg/kg	<1	<1	<1
pH	T7	A40			7.7	7.7	7.6
Soil Organic Matter	T287	A40	0.1	%	4.8	5.2	5.2
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	0.05	0.04	0.05
SO4(Total)	T102	A40	0.02	%	0.04	0.04	0.04
Cyanide(Total)	T921	M105	1	mg/kg	<1	<1	<1
Phenols(Mono)	T921	M105	1	mg/kg	<1	<1	<1
Moisture @40C	T277	AR	0.1	%	25	26	26
Moisture @105C	T162	AR	0.1	%	26	28	27
Retained on 2mm	T2	A40	0.1	%	1.4	7.0	6.1

Concept Reference: 800893
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
Total and Speciated USEPA16 PAH (SE) (MCERTS)

				Concept Reference	800893 001	800893 002	800893 003
				Customer Sample Reference	SP1 ES1	SP1 ES2	SP1 ES3
				Date Sampled	05-FEB-2019	05-FEB-2019	05-FEB-2019
				Matrix Class	Topsoil	Topsoil	Topsoil
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Acenaphthene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Anthracene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T1086	M105	0.1	mg/kg	0.1	<0.1	<0.1
Benzo(a)Pyrene	T1086	M105	0.1	mg/kg	0.1	<0.1	<0.1
Benzo(b)fluoranthene	T1086	M105	0.1	mg/kg	0.2	<0.1	<0.1
Benzo(ghi)Perylene	T1086	M105	0.1	mg/kg	0.1	<0.1	<0.1
Benzo(k)fluoranthene	T1086	M105	0.1	mg/kg	0.1	<0.1	<0.1
Chrysene	T1086	M105	0.1	mg/kg	0.2	<0.1	<0.1
Dibenzo(ah)Anthracene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	T1086	M105	0.1	mg/kg	0.3	<0.1	0.1
Fluorene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Naphthalene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Pyrene	T1086	M105	0.1	mg/kg	0.3	<0.1	<0.1
PAH(total)	T1086	M105	0.1	mg/kg	1.5	<0.1	0.1

Concept Reference: 800893
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
BTEX GRO MTBE

Concept Reference	**800893 001**	**800893 002**	**800893 003**
Customer Sample Reference	**SP1 ES1**	**SP1 ES2**	**SP1 ES3**
Date Sampled	**05-FEB-2019**	**05-FEB-2019**	**05-FEB-2019**
Matrix Class	**Topsoil**	**Topsoil**	**Topsoil**

Determinand	Method	Test Sample	LOD	Units			
Benzene	T54	M105	1	µg/kg	<1	<1	<1
Toluene	T54	M105	1	µg/kg	<1	<1	<1
EthylBenzene	T54	M105	1	µg/kg	<1	<1	<1
M/P Xylene	T54	M105	1	µg/kg	<1	<1	<1
O Xylene	T54	M105	1	µg/kg	<1	<1	<1
Methyl tert-Butyl Ether	T54	M105	1	µg/kg	<1	<1	<1
Gasoline Range Organics	T54	M105	100	µg/kg	<100	<100	<100

Concept Reference: 800893
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
TPH C5-C40 Banded

Concept Reference	**800893 001**	**800893 002**	**800893 003**
Customer Sample Reference	**SP1 ES1**	**SP1 ES2**	**SP1 ES3**
Date Sampled	**05-FEB-2019**	**05-FEB-2019**	**05-FEB-2019**
Matrix Class	**Topsoil**	**Topsoil**	**Topsoil**

Determinand	Method	Test Sample	LOD	Units			
TPH (C5-C6)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C10-C12)	T219	M105	2	mg/kg	<2[13]	<2[13]	<2[13]
TPH (C12-C16)	T219	M105	2	mg/kg	12[13]	3[13]	<2[13]
TPH (C16-C21)	T219	M105	2	mg/kg	39[13]	15[13]	11[13]
TPH (C21-C35)	T219	M105	2	mg/kg	250[13]	65[13]	49[13]
TPH (C35-C40)	T219	M105	2	mg/kg	62[13]	21[13]	21[13]
TPH C5-C40 (sum)	T85	M105	10	mg/kg	360	100	21

Index to symbols used in 800893-1

Value	Description
AR	As Received
A40	Assisted dried < 40C
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
13	Results have been blank corrected.
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos subcontracted to REC Limited
Retained on 2mm is removed before analysis

Method Index

Value	Description
T287	Calc TOC/0.58

T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T2	Grav
T27	PLM
T7	Probe
T102	ICP/OES (HCl extract)
T245	ICP/OES (Aqua Regia Extraction)
T6	ICP/OES
T54	GC/MS (Headspace)
T257	ICP/OES (SIM) (Aqua Regia Extraction)
T277	Grav (1 Dec) (40 C)
T82	ICP/OES (Sim)
T85	Calc
T219	GC/FID (SE)
T162	Grav (1 Dec) (105 C)
T921	Colorimetry (CF) (MCERT)
T1086	GC/MS (GSOP12A)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Benzene	T54	M105	1	µg/kg	U	001-003
Toluene	T54	M105	1	µg/kg	U	001-003
EthylBenzene	T54	M105	1	µg/kg	U	001-003
M/P Xylene	T54	M105	1	µg/kg	U	001-003
O Xylene	T54	M105	1	µg/kg	U	001-003
Methyl tert-Butyl Ether	T54	M105	1	µg/kg	U	001-003
Gasoline Range Organics	T54	M105	100	µg/kg	N	001-003
Antimony	T257	A40	5	mg/kg	U	001-003
Arsenic	T257	A40	2	mg/kg	M	001-003
Barium	T257	A40	2	mg/kg	U	001-003
Beryllium	T245	A40	0.5	mg/kg	U	001-003
Boron (water-soluble)	T82	A40	1	mg/kg	N	001-003
Cadmium	T257	A40	0.1	mg/kg	M	001-003
Chromium	T257	A40	0.5	mg/kg	M	001-003
Copper	T257	A40	2	mg/kg	M	001-003
Lead	T257	A40	2	mg/kg	M	001-003
Mercury	T245	A40	1.0	mg/kg	U	001-003
Nickel	T257	A40	0.5	mg/kg	M	001-003
Selenium	T257	A40	3	mg/kg	U	001-003
Vanadium	T257	A40	0.1	mg/kg	U	001-003
Zinc	T257	A40	2	mg/kg	M	001-003
Asbestos ID	T27	A40			SU	001-003
Chromium VI	T6	A40	1	mg/kg	N	001-003
pH	T7	A40			M	001-003
Soil Organic Matter	T287	A40	0.1	%	N	001-003
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	M	001-003
SO4(Total)	T102	A40	0.02	%	M	001-003
Cyanide(Total)	T921	M105	1	mg/kg	M	001-003
Phenols(Mono)	T921	M105	1	mg/kg	M	001-003
Moisture @40C	T277	AR	0.1	%	N	001-003
Moisture @105C	T162	AR	0.1	%	N	001-003
Retained on 2mm	T2	A40	0.1	%	N	001-003
Acenaphthene	T1086	M105	0.1	mg/kg	M	001-003
Acenaphthylene	T1086	M105	0.1	mg/kg	M	001-003
Anthracene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(a)Anthracene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(a)Pyrene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(b)fluoranthene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(ghi)Perylene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(k)fluoranthene	T1086	M105	0.1	mg/kg	N	001-003
Chrysene	T1086	M105	0.1	mg/kg	M	001-003
Dibenzo(ah)Anthracene	T1086	M105	0.1	mg/kg	M	001-003
Fluoranthene	T1086	M105	0.1	mg/kg	M	001-003
Fluorene	T1086	M105	0.1	mg/kg	M	001-003
Indeno(123-cd)Pyrene	T1086	M105	0.1	mg/kg	M	001-003
Naphthalene	T1086	M105	0.1	mg/kg	M	001-003
Phenanthrene	T1086	M105	0.1	mg/kg	M	001-003
Pyrene	T1086	M105	0.1	mg/kg	M	001-003
PAH(total)	T1086	M105	0.1	mg/kg	N	001-003
TPH (C5-C6)	T54	M105	0.10	mg/kg	N	001-003

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
TPH (C6-C8)	T54	M105	0.10	mg/kg	N	001-003
TPH (C8-C10)	T54	M105	0.10	mg/kg	N	001-003
TPH (C10-C12)	T219	M105	2	mg/kg	U	001-003
TPH (C12-C16)	T219	M105	2	mg/kg	U	001-003
TPH (C16-C21)	T219	M105	2	mg/kg	U	001-003
TPH (C21-C35)	T219	M105	2	mg/kg	U	001-003
TPH (C35-C40)	T219	M105	2	mg/kg	N	001-003
TPH C5-C40 (sum)	T85	M105	10	mg/kg	N	001-003



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Certificate of Analysis

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Springwood Industrial
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Tel : 01376 560120
Fax : 01376 552923

Report Number: 804212-1

Date of Report: 28-Feb-2019

Customer: Resource Environmental Consultants Ltd
Unit 6
The Incubator
Enterprise Campus
Alconbury Weald
Huntingdon
IP33 4WZ

Customer Contact: Mr Richard Hodkin

Customer Job Reference: 1CO102896
Customer Purchase Order: 006366
Customer Site Reference: Rustington
Date Job Received at Concept: 21-Feb-2019
Date Analysis Started: 21-Feb-2019
Date Analysis Completed: 28-Feb-2019

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

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Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked
and authorised by :
Mr James Taylor
Analyst

Issued by :
Aislinn Arthey
Customer Service Advisor

Concept Reference: 804212
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
REC South Soil Suite

				Concept Reference	804212 001	804212 002	804212 003
				Customer Sample Reference	SP2 ES1	SP2 ES2	SP2 ES3
				Date Sampled	20-FEB-2019	20-FEB-2019	20-FEB-2019
				Matrix Class	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Antimony	T257	A40	5	mg/kg	<5	<5	<5
Arsenic	T257	A40	2	mg/kg	6	6	6
Barium	T257	A40	2	mg/kg	100	96	94
Beryllium	T245	A40	0.5	mg/kg	0.7	0.7	0.8
Boron (water-soluble)	T82	A40	1	mg/kg	<1	<1	<1
Cadmium	T257	A40	0.1	mg/kg	<0.1	0.1	0.1
Chromium	T257	A40	0.5	mg/kg	10	12	10
Copper	T257	A40	2	mg/kg	15	17	16
Lead	T257	A40	2	mg/kg	18	20	20
Mercury	T245	A40	1.0	mg/kg	<1.0	<1.0	<1.0
Nickel	T257	A40	0.5	mg/kg	17	17	17
Selenium	T257	A40	3	mg/kg	<3	<3	<3
Vanadium	T257	A40	0.1	mg/kg	15	14	14
Zinc	T257	A40	2	mg/kg	48	50	48
Asbestos ID	T27	A40			Asbestos not detected	Asbestos not detected	Asbestos not detected
Chromium VI	T6	A40	1	mg/kg	<1	<1	<1
Moisture @40C	T277	AR	0.1	%	26	23	29
pH	T7	A40			7.8	7.7	7.8
Soil Organic Matter	T287	A40	0.1	%	5.0	5.2	6.2
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	0.11	0.05	0.05
SO4(Total)	T102	A40	0.02	%	0.05	0.04	0.04
Cyanide(Total)	T921	M105	1	mg/kg	<1	<1	<1
Phenols(Mono)	T921	M105	1	mg/kg	<1	<1	<1

Concept Reference: 804212
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
Total and Speciated USEPA16 PAH (SE) (MCERTS)

				Concept Reference	804212 001	804212 002	804212 003
				Customer Sample Reference	SP2 ES1	SP2 ES2	SP2 ES3
				Date Sampled	20-FEB-2019	20-FEB-2019	20-FEB-2019
				Matrix Class	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Acenaphthene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Anthracene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	T1086	M105	0.1	mg/kg	<0.1	0.1	0.1
Benzo(ghi)Perylene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	T1086	M105	0.1	mg/kg	<0.1	0.1	<0.1
Chrysene	T1086	M105	0.1	mg/kg	<0.1	0.1	0.2
Dibenzo(ah)Anthracene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	T1086	M105	0.1	mg/kg	0.2	0.2	0.2
Fluorene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Naphthalene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	T1086	M105	0.1	mg/kg	<0.1	<0.1	0.1
Pyrene	T1086	M105	0.1	mg/kg	0.2	0.2	0.2
PAH(total)	T1086	M105	0.1	mg/kg	0.4	0.7	0.8

Concept Reference: 804212
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
BTEX GRO MTBE

Concept Reference	**804212 001**	**804212 002**	**804212 003**
Customer Sample Reference	**SP2 ES1**	**SP2 ES2**	**SP2 ES3**
Date Sampled	**20-FEB-2019**	**20-FEB-2019**	**20-FEB-2019**
Matrix Class	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units			
Benzene	T54	M105	1	µg/kg	<1	<1	<1
Toluene	T54	M105	1	µg/kg	<1	<1	<1
EthylBenzene	T54	M105	1	µg/kg	<1	<1	<1
M/P Xylene	T54	M105	1	µg/kg	<1	<1	<1
O Xylene	T54	M105	1	µg/kg	<1	<1	<1
Methyl tert-Butyl Ether	T54	M105	1	µg/kg	<1	<1	<1
Gasoline Range Organics	T54	M105	100	µg/kg	<100	<100	<100

Concept Reference: 804212
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
TPH C5-C40 Banded

Concept Reference	**804212 001**	**804212 002**	**804212 003**
Customer Sample Reference	**SP2 ES1**	**SP2 ES2**	**SP2 ES3**
Date Sampled	**20-FEB-2019**	**20-FEB-2019**	**20-FEB-2019**
Matrix Class	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units			
TPH (C5-C6)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C10-C12)	T219	M105	2	mg/kg	<2(13)	<2(13)	<2(13)
TPH (C12-C16)	T219	M105	2	mg/kg	6(13)	7(13)	6(13)
TPH (C16-C21)	T219	M105	2	mg/kg	32(13)	38(13)	34(13)
TPH (C21-C35)	T219	M105	2	mg/kg	180(13)	210(13)	210(13)
TPH (C35-C40)	T219	M105	2	mg/kg	58(13)	67(13)	72(13)
TPH C5-C40 (sum)	T85	M105	10	mg/kg	280	320	320

Concept Reference: 804212
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
MCERTS Preparation

Concept Reference	**804212 001**	**804212 002**	**804212 003**
Customer Sample Reference	**SP2 ES1**	**SP2 ES2**	**SP2 ES3**
Date Sampled	**20-FEB-2019**	**20-FEB-2019**	**20-FEB-2019**
Matrix Class	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units			
Moisture @105C	T162	AR	0.1	%	29	28	29
Retained on 2mm	T2	A40	0.1	%	1.4	6.7	3.3

Index to symbols used in 804212-1

Value	Description
A40	Assisted dried < 40C
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
13	Results have been blank corrected.

S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos subcontracted to REC Limited
Retained on 2mm is removed before analysis

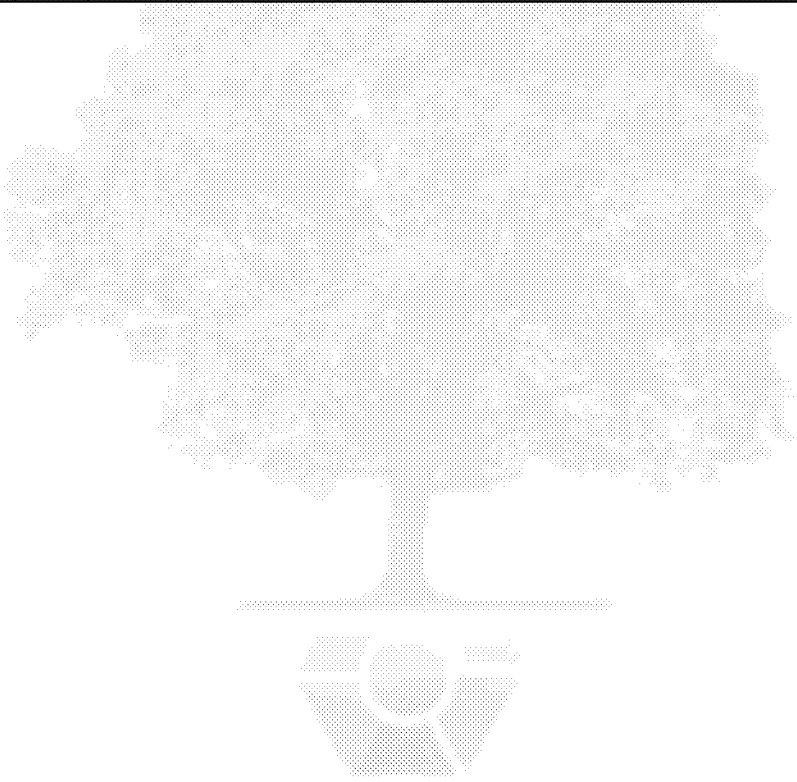
Method Index

Value	Description
T85	Calc
T102	ICP/OES (HCl extract)
T245	ICP/OES (Aqua Regia Extraction)
T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T6	ICP/OES
T27	PLM
T257	ICP/OES (SIM) (Aqua Regia Extraction)
T277	Grav (1 Dec) (40 C)
T219	GC/FID (SE)
T1086	GC/MS (GSOP12A)
T2	Grav
T82	ICP/OES (Sim)
T287	Calc TOC/0.58
T54	GC/MS (Headspace)
T921	Colorimetry (CF) (MCERT)
T7	Probe
T162	Grav (1 Dec) (105 C)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Benzene	T54	M105	1	µg/kg	U	001-003
Toluene	T54	M105	1	µg/kg	U	001-003
EthylBenzene	T54	M105	1	µg/kg	U	001-003
M/P Xylene	T54	M105	1	µg/kg	U	001-003
O Xylene	T54	M105	1	µg/kg	U	001-003
Methyl tert-Butyl Ether	T54	M105	1	µg/kg	U	001-003
Gasoline Range Organics	T54	M105	100	µg/kg	N	001-003
Antimony	T257	A40	5	mg/kg	U	001-003
Arsenic	T257	A40	2	mg/kg	M	001-003
Barium	T257	A40	2	mg/kg	U	001-003
Beryllium	T245	A40	0.5	mg/kg	U	001-003
Boron (water-soluble)	T82	A40	1	mg/kg	N	001-003
Cadmium	T257	A40	0.1	mg/kg	M	001-003
Chromium	T257	A40	0.5	mg/kg	M	001-003
Copper	T257	A40	2	mg/kg	M	001-003
Lead	T257	A40	2	mg/kg	M	001-003
Mercury	T245	A40	1.0	mg/kg	U	001-003
Nickel	T257	A40	0.5	mg/kg	M	001-003
Selenium	T257	A40	3	mg/kg	U	001-003
Vanadium	T257	A40	0.1	mg/kg	U	001-003
Zinc	T257	A40	2	mg/kg	M	001-003
Asbestos ID	T27	A40			SU	001-003
Chromium VI	T6	A40	1	mg/kg	N	001-003
Moisture @40C	T277	AR	0.1	%	N	001-003
pH	T7	A40			M	001-003
Soil Organic Matter	T287	A40	0.1	%	N	001-003
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	M	001-003
SO4(Total)	T102	A40	0.02	%	M	001-003
Cyanide(Total)	T921	M105	1	mg/kg	M	001-003
Phenols(Mono)	T921	M105	1	mg/kg	M	001-003
Acenaphthene	T1086	M105	0.1	mg/kg	M	001-003
Acenaphthylene	T1086	M105	0.1	mg/kg	M	001-003
Anthracene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(a)Anthracene	T1086	M105	0.1	mg/kg	M	001-003

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Benzo(a)Pyrene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(b)fluoranthene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(ghi)Perylene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(k)fluoranthene	T1086	M105	0.1	mg/kg	N	001-003
Chrysene	T1086	M105	0.1	mg/kg	M	001-003
Dibenzo(ah)Anthracene	T1086	M105	0.1	mg/kg	M	001-003
Fluoranthene	T1086	M105	0.1	mg/kg	M	001-003
Fluorene	T1086	M105	0.1	mg/kg	M	001-003
Indeno(123-cd)Pyrene	T1086	M105	0.1	mg/kg	M	001-003
Naphthalene	T1086	M105	0.1	mg/kg	M	001-003
Phenanthrene	T1086	M105	0.1	mg/kg	M	001-003
Pyrene	T1086	M105	0.1	mg/kg	M	001-003
PAH(total)	T1086	M105	0.1	mg/kg	N	001-003
TPH (C5-C6)	T54	M105	0.10	mg/kg	N	001-003
TPH (C6-C8)	T54	M105	0.10	mg/kg	N	001-003
TPH (C8-C10)	T54	M105	0.10	mg/kg	N	001-003
TPH (C10-C12)	T219	M105	2	mg/kg	U	001-003
TPH (C12-C16)	T219	M105	2	mg/kg	U	001-003
TPH (C16-C21)	T219	M105	2	mg/kg	U	001-003
TPH (C21-C35)	T219	M105	2	mg/kg	U	001-003
TPH (C35-C40)	T219	M105	2	mg/kg	N	001-003
TPH C5-C40 (sum)	T85	M105	10	mg/kg	N	001-003
Moisture @105C	T162	AR	0.1	%	N	001-003
Retained on 2mm	T2	A40	0.1	%	N	001-003



CONCEPT LIFE SCIENCES

Concept Life Sciences is a trading name of Concept Life Sciences Analytical & Development Services Limited registered in England and Wales (No 2514788)

Concept Life Sciences

Certificate of Analysis

3 Crittall Drive
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Tel : 01376 560120
Fax : 01376 552923

Report Number: 807160-1

Date of Report: 12-Mar-2019

Customer: Resource Environmental Consultants Ltd
Capital Business Centre
Unit 19a Carlton Road
South Croydon
CR2 0BS

Customer Contact: Mr Richard Hodkin

Customer Job Reference: 1CO102896
Customer Purchase Order: 006434
Customer Site Reference: Rustington
Date Job Received at Concept: 06-Mar-2019
Date Analysis Started: 06-Mar-2019
Date Analysis Completed: 12-Mar-2019

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked and authorised by :
Mr James Taylor
Analyst

Issued by :
Aislinn Arthey
Customer Service Advisor

Concept Reference: 807160
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
REC South Soil Suite

				Concept Reference	807160 001	807160 002	807160 003
				Customer Sample Reference	SP3 ES1	SP3 ES2	SP3 ES3
				Date Sampled	05-MAR-2019	05-MAR-2019	05-MAR-2019
				Matrix Class	Topsoil	Topsoil	Topsoil
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Antimony	T257	A40	5	mg/kg	<5	<5	<5
Arsenic	T257	A40	2	mg/kg	8	7	6
Barium	T257	A40	2	mg/kg	130	130	130
Beryllium	T245	A40	0.5	mg/kg	0.9	0.8	0.8
Boron (water-soluble)	T82	A40	1	mg/kg	<1	<1	<1
Cadmium	T257	A40	0.1	mg/kg	0.1	<0.1	<0.1
Chromium	T257	A40	0.5	mg/kg	12	12	11
Copper	T257	A40	2	mg/kg	15	21	15
Lead	T257	A40	2	mg/kg	18	22	17
Mercury	T245	A40	1.0	mg/kg	<1.0	<1.0	<1.0
Nickel	T257	A40	0.5	mg/kg	20	21	20
Selenium	T257	A40	3	mg/kg	<3	<3	<3
Vanadium	T257	A40	0.1	mg/kg	16	14	14
Zinc	T257	A40	2	mg/kg	58	49	46
Asbestos ID	T27	A40			Asbestos not detected	Asbestos not detected	Asbestos not detected
Chromium VI	T6	A40	1	mg/kg	<1	<1	<1
pH	T7	A40			7.9	7.8	7.8
Soil Organic Matter	T287	A40	0.1	%	3.6	4.3	3.6
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	0.02	0.03	0.02
SO4(Total)	T102	A40	0.02	%	0.03	0.03	0.03
Cyanide(Total)	T921	M105	1	mg/kg	<1	<1	<1
Phenols(Mono)	T921	M105	1	mg/kg	<1	<1	<1
Moisture @40C	T277	AR	0.1	%	18	15	16
Moisture @105C	T162	AR	0.1	%	24	25	24
Retained on 2mm	T2	A40	0.1	%	5.1	2.9	2.5

Concept Reference: 807160
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
Total and Speciated USEPA16 PAH (SE) (MCERTS)

				Concept Reference	807160 001	807160 002	807160 003
				Customer Sample Reference	SP3 ES1	SP3 ES2	SP3 ES3
				Date Sampled	05-MAR-2019	05-MAR-2019	05-MAR-2019
				Matrix Class	Topsoil	Topsoil	Topsoil
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Acenaphthene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	<0.1
Acenaphthylene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	<0.1
Anthracene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	<0.1
Benzo(a)Anthracene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	0.1
Benzo(a)Pyrene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	0.1
Benzo(b)fluoranthene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	0.1
Benzo(ghi)Perylene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	0.1
Benzo(k)fluoranthene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	0.1
Chrysene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	0.1
Dibenzo(ah)Anthracene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	<0.1
Fluoranthene	T1086	M105	0.1	mg/kg	0.1	<0.3[2]	0.2
Fluorene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	<0.1
Indeno(123-cd)Pyrene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	<0.1
Naphthalene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	<0.1
Phenanthrene	T1086	M105	0.1	mg/kg	<0.1	<0.3[2]	<0.1
Pyrene	T1086	M105	0.1	mg/kg	0.1	<0.3[2]	0.2
PAH(total)	T1086	M105	0.1	mg/kg	0.2	<0.3[2]	1.1

Concept Reference: 807160
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
BTEX GRO MTBE

Concept Reference	**807160 001**	**807160 002**	**807160 003**
Customer Sample Reference	**SP3 ES1**	**SP3 ES2**	**SP3 ES3**
Date Sampled	**05-MAR-2019**	**05-MAR-2019**	**05-MAR-2019**
Matrix Class	**Topsoil**	**Topsoil**	**Topsoil**

Determinand	Method	Test Sample	LOD	Units			
Benzene	T54	M105	1	µg/kg	<1	<1	<1
Toluene	T54	M105	1	µg/kg	<1	<1	<1
EthylBenzene	T54	M105	1	µg/kg	<1	<1	<1
M/P Xylene	T54	M105	1	µg/kg	<1	<1	<1
O Xylene	T54	M105	1	µg/kg	<1	<1	<1
Methyl tert-Butyl Ether	T54	M105	1	µg/kg	<1	<1	<1
Gasoline Range Organics	T54	M105	100	µg/kg	<100	<100	<100

Concept Reference: 807160
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
TPH C5-C40 Banded

Concept Reference	**807160 001**	**807160 002**	**807160 003**
Customer Sample Reference	**SP3 ES1**	**SP3 ES2**	**SP3 ES3**
Date Sampled	**05-MAR-2019**	**05-MAR-2019**	**05-MAR-2019**
Matrix Class	**Topsoil**	**Topsoil**	**Topsoil**

Determinand	Method	Test Sample	LOD	Units			
TPH (C5-C6)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C10-C12)	T219	M105	2	mg/kg	<2[13]	<10[9]	<2[13]
TPH (C12-C16)	T219	M105	2	mg/kg	5[13]	<10[9]	5[13]
TPH (C16-C21)	T219	M105	2	mg/kg	30[13]	39[9]	32[13]
TPH (C21-C35)	T219	M105	2	mg/kg	270[13]	600	270[13]
TPH (C35-C40)	T219	M105	2	mg/kg	68[13]	340	70[13]
TPH C5-C40 (sum)	T85	M105	10	mg/kg	370	980	380

Index to symbols used in 807160-1

Value	Description
A40	Assisted dried < 40C
AR	As Received
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
2	LOD Raised Due to Matrix Interference
13	Results have been blank corrected.
9	LOD raised due to dilution of sample
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos subcontracted to REC Limited
Retained on 2mm is removed before analysis

Method Index

Value	Description
T245	ICP/OES (Aqua Regia Extraction)
T257	ICP/OES (SIM) (Aqua Regia Extraction)
T921	Colorimetry (CF) (MCERT)
T7	Probe
T219	GC/FID (SE)
T287	Calc TOC/0.58
T1086	GC/MS (GSOP12A)
T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T27	PLM
T54	GC/MS (Headspace)
T102	ICP/OES (HCl extract)
T2	Grav
T6	ICP/OES
T162	Grav (1 Dec) (105 C)
T277	Grav (1 Dec) (40 C)
T82	ICP/OES (Sim)
T85	Calc

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Benzene	T54	M105	1	µg/kg	U	001-003
Toluene	T54	M105	1	µg/kg	U	001-003
EthylBenzene	T54	M105	1	µg/kg	U	001-003
M/P Xylene	T54	M105	1	µg/kg	U	001-003
O Xylene	T54	M105	1	µg/kg	U	001-003
Methyl tert-Butyl Ether	T54	M105	1	µg/kg	U	001-003
Gasoline Range Organics	T54	M105	100	µg/kg	N	001-003
Antimony	T257	A40	5	mg/kg	U	001-003
Arsenic	T257	A40	2	mg/kg	M	001-003
Barium	T257	A40	2	mg/kg	U	001-003
Beryllium	T245	A40	0.5	mg/kg	U	001-003
Boron (water-soluble)	T82	A40	1	mg/kg	N	001-003
Cadmium	T257	A40	0.1	mg/kg	M	001-003
Chromium	T257	A40	0.5	mg/kg	M	001-003
Copper	T257	A40	2	mg/kg	M	001-003
Lead	T257	A40	2	mg/kg	M	001-003
Mercury	T245	A40	1.0	mg/kg	U	001-003
Nickel	T257	A40	0.5	mg/kg	M	001-003
Selenium	T257	A40	3	mg/kg	U	001-003
Vanadium	T257	A40	0.1	mg/kg	U	001-003
Zinc	T257	A40	2	mg/kg	M	001-003
Asbestos ID	T27	A40			SU	001-003
Chromium VI	T6	A40	1	mg/kg	N	001-003
pH	T7	A40			M	001-003
Soil Organic Matter	T287	A40	0.1	%	N	001-003
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	M	001-003
SO4(Total)	T102	A40	0.02	%	M	001-003
Cyanide(Total)	T921	M105	1	mg/kg	M	001-003
Phenols(Mono)	T921	M105	1	mg/kg	M	001-003
Moisture @40C	T277	AR	0.1	%	N	001-003
Moisture @105C	T162	AR	0.1	%	N	001-003
Retained on 2mm	T2	A40	0.1	%	N	001-003
TPH (C5-C6)	T54	M105	0.10	mg/kg	N	001-003
TPH (C6-C8)	T54	M105	0.10	mg/kg	N	001-003
TPH (C8-C10)	T54	M105	0.10	mg/kg	N	001-003
TPH (C10-C12)	T219	M105	2	mg/kg	U	001-003
TPH (C12-C16)	T219	M105	2	mg/kg	U	001-003
TPH (C16-C21)	T219	M105	2	mg/kg	U	001-003
TPH (C21-C35)	T219	M105	2	mg/kg	U	001-003
TPH (C35-C40)	T219	M105	2	mg/kg	N	001-003
TPH C5-C40 (sum)	T85	M105	10	mg/kg	N	001-003
Acenaphthene	T1086	M105	0.1	mg/kg	M	001-003
Acenaphthylene	T1086	M105	0.1	mg/kg	M	001-003
Anthracene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(a)Anthracene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(a)Pyrene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(b)fluoranthene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(ghi)Perylene	T1086	M105	0.1	mg/kg	M	001-003

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Benzo(k)fluoranthene	T1086	M105	0.1	mg/kg	N	001-003
Chrysene	T1086	M105	0.1	mg/kg	M	001-003
Dibenzo(ah)Anthracene	T1086	M105	0.1	mg/kg	M	001-003
Fluoranthene	T1086	M105	0.1	mg/kg	M	001-003
Fluorene	T1086	M105	0.1	mg/kg	M	001-003
Indeno(123-cd)Pyrene	T1086	M105	0.1	mg/kg	M	001-003
Naphthalene	T1086	M105	0.1	mg/kg	M	001-003
Phenanthrene	T1086	M105	0.1	mg/kg	M	001-003
Pyrene	T1086	M105	0.1	mg/kg	M	001-003
PAH(total)	T1086	M105	0.1	mg/kg	N	001-003



CONCEPT LIFE SCIENCES

Concept Life Sciences is a trading name of Concept Life Sciences Analytical & Development Services Limited registered in England and Wales (No 2514788)

Concept Life Sciences

Certificate of Analysis

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CM7 2RT
Tel : 01376 560120
Fax : 01376 552923

Report Number: 811238-1

Date of Report: 28-Mar-2019

Customer: Resource Environmental Consultants Ltd
Unit 6
The Incubator
Enterprise Campus
Alconbury Weald
Huntingdon
IP33 4WZ

Customer Contact: Mr Richard Hodkin

Customer Job Reference: 1CO102896
Customer Purchase Order: 006511
Customer Site Reference: Rustington
Date Job Received at Concept: 22-Mar-2019
Date Analysis Started: 22-Mar-2019
Date Analysis Completed: 28-Mar-2019

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

Report checked
and authorised by :
Mr James Taylor
Inorganic Section Manager

Issued by :
Aislinn Arthey
Customer Service Advisor

Concept Reference: 811238
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
REC South Soil Suite

				Concept Reference	811238 001	811238 002	811238 003
				Customer Sample Reference	SP4 ES1	SP4 ES2	SP4 ES3
				Date Sampled	21-MAR-2019	21-MAR-2019	21-MAR-2019
				Matrix Class	Topsoil	Topsoil	Topsoil
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Antimony	T257	A40	5	mg/kg	<5	<5	<5
Arsenic	T257	A40	2	mg/kg	7	7	7
Barium	T257	A40	2	mg/kg	100	100	91
Beryllium	T245	A40	0.5	mg/kg	0.8	0.9	0.9
Boron (water-soluble)	T82	A40	1	mg/kg	<1	1	<1
Cadmium	T257	A40	0.1	mg/kg	<0.1	<0.1	<0.1
Chromium	T257	A40	0.5	mg/kg	12	13	12
Copper	T257	A40	2	mg/kg	15	17	14
Lead	T257	A40	2	mg/kg	17	23	22
Mercury	T245	A40	1.0	mg/kg	<1.0	<1.0	<1.0
Nickel	T257	A40	0.5	mg/kg	18	18	17
Selenium	T257	A40	3	mg/kg	<3	<3	<3
Vanadium	T257	A40	0.1	mg/kg	19	20	18
Zinc	T257	A40	2	mg/kg	42	54	41
Asbestos ID	T27	A40			Asbestos not detected	Asbestos not detected	Asbestos not detected
Chromium VI	T6	A40	1	mg/kg	<1	<1	<1
pH	T7	A40			7.6	7.7	7.6
Soil Organic Matter	T287	A40	0.1	%	4.1	4.5	4.7
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	0.03	0.03	0.03
SO4(Total)	T102	A40	0.02	%	0.03	0.03	0.02
Cyanide(Total)	T921	M105	1	mg/kg	<1	<1	<1
Phenols(Mono)	T921	M105	1	mg/kg	<1	<1	<1
Moisture @40C	T277	AR	0.1	%	24	23	23
Moisture @105C	T162	AR	0.1	%	31	31	28
Retained on 2mm	T2	A40	0.1	%	2.5	2.8	7.3

Concept Reference: 811238
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
Total and Speciated USEPA16 PAH (SE) (MCERTS)

				Concept Reference	811238 001	811238 002	811238 003
				Customer Sample Reference	SP4 ES1	SP4 ES2	SP4 ES3
				Date Sampled	21-MAR-2019	21-MAR-2019	21-MAR-2019
				Matrix Class	Topsoil	Topsoil	Topsoil
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Acenaphthene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Anthracene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	T1086	M105	0.1	mg/kg	0.1	0.1	0.1
Benzo(ghi)Perylene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Chrysene	T1086	M105	0.1	mg/kg	<0.1	0.1	0.1
Dibenzo(ah)Anthracene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	T1086	M105	0.1	mg/kg	0.2	0.2	0.2
Fluorene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Naphthalene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	T1086	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Pyrene	T1086	M105	0.1	mg/kg	0.2	0.2	0.2
PAH(total)	T1086	M105	0.1	mg/kg	0.4	0.6	0.6

Concept Reference: 811238
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
BTEX GRO MTBE

Concept Reference	**811238 001**	**811238 002**	**811238 003**
Customer Sample Reference	**SP4 ES1**	**SP4 ES2**	**SP4 ES3**
Date Sampled	**21-MAR-2019**	**21-MAR-2019**	**21-MAR-2019**
Matrix Class	**Topsoil**	**Topsoil**	**Topsoil**

Determinand	Method	Test Sample	LOD	Units			
Benzene	T54	M105	1	µg/kg	<1	<1	<1
Toluene	T54	M105	1	µg/kg	<1	<1	<1
EthylBenzene	T54	M105	1	µg/kg	<1	<1	<1
M/P Xylene	T54	M105	1	µg/kg	<1	<1	<1
O Xylene	T54	M105	1	µg/kg	<1	<1	<1
Methyl tert-Butyl Ether	T54	M105	1	µg/kg	<1	<1	<1
Gasoline Range Organics	T54	M105	100	µg/kg	<100	<100	<100

Concept Reference: 811238
Project Site: Rustington
Customer Reference: 1CO102896

Soil Analysed as Soil
TPH C5-C40 Banded

Concept Reference	**811238 001**	**811238 002**	**811238 003**
Customer Sample Reference	**SP4 ES1**	**SP4 ES2**	**SP4 ES3**
Date Sampled	**21-MAR-2019**	**21-MAR-2019**	**21-MAR-2019**
Matrix Class	**Topsoil**	**Topsoil**	**Topsoil**

Determinand	Method	Test Sample	LOD	Units			
TPH (C5-C6)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	M105	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C10-C12)	T219	M105	2	mg/kg	<2[13]	<2[13]	<2[13]
TPH (C12-C16)	T219	M105	2	mg/kg	6[13]	10[13]	6[13]
TPH (C16-C21)	T219	M105	2	mg/kg	28[13]	41[13]	26[13]
TPH (C21-C35)	T219	M105	2	mg/kg	190[13]	240[13]	190[13]
TPH (C35-C40)	T219	M105	2	mg/kg	41[13]	55[13]	44[13]
TPH C5-C40 (sum)	T85	M105	10	mg/kg	270	350	270

Index to symbols used in 811238-1

Value	Description
A40	Assisted dried < 40C
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
13	Results have been blank corrected.
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos subcontracted to REC Limited
Retained on 2mm is removed before analysis

Method Index

Value	Description
T245	ICP/OES (Aqua Regia Extraction)

T287	Calc TOC/0.58
T7	Probe
T85	Calc
T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T6	ICP/OES
T27	PLM
T1086	GC/MS (GSOP12A)
T921	Colorimetry (CF) (MCERT)
T2	Grav
T54	GC/MS (Headspace)
T102	ICP/OES (HCl extract)
T219	GC/FID (SE)
T257	ICP/OES (SIM) (Aqua Regia Extraction)
T277	Grav (1 Dec) (40 C)
T82	ICP/OES (Sim)
T162	Grav (1 Dec) (105 C)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Benzene	T54	M105	1	µg/kg	U	001-003
Toluene	T54	M105	1	µg/kg	U	001-003
EthylBenzene	T54	M105	1	µg/kg	U	001-003
M/P Xylene	T54	M105	1	µg/kg	U	001-003
O Xylene	T54	M105	1	µg/kg	U	001-003
Methyl tert-Butyl Ether	T54	M105	1	µg/kg	U	001-003
Gasoline Range Organics	T54	M105	100	µg/kg	N	001-003
Antimony	T257	A40	5	mg/kg	U	001-003
Arsenic	T257	A40	2	mg/kg	M	001-003
Barium	T257	A40	2	mg/kg	U	001-003
Beryllium	T245	A40	0.5	mg/kg	U	001-003
Boron (water-soluble)	T82	A40	1	mg/kg	N	001-003
Cadmium	T257	A40	0.1	mg/kg	M	001-003
Chromium	T257	A40	0.5	mg/kg	M	001-003
Copper	T257	A40	2	mg/kg	M	001-003
Lead	T257	A40	2	mg/kg	M	001-003
Mercury	T245	A40	1.0	mg/kg	U	001-003
Nickel	T257	A40	0.5	mg/kg	M	001-003
Selenium	T257	A40	3	mg/kg	U	001-003
Vanadium	T257	A40	0.1	mg/kg	U	001-003
Zinc	T257	A40	2	mg/kg	M	001-003
Asbestos ID	T27	A40			SU	001-003
Chromium VI	T6	A40	1	mg/kg	N	001-003
pH	T7	A40			M	001-003
Soil Organic Matter	T287	A40	0.1	%	N	001-003
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	M	001-003
SO4(Total)	T102	A40	0.02	%	M	001-003
Cyanide(Total)	T921	M105	1	mg/kg	M	001-003
Phenols(Mono)	T921	M105	1	mg/kg	M	001-003
Moisture @40C	T277	AR	0.1	%	N	001-003
Moisture @105C	T162	AR	0.1	%	N	001-003
Retained on 2mm	T2	A40	0.1	%	N	001-003
Acenaphthene	T1086	M105	0.1	mg/kg	M	001-003
Acenaphthylene	T1086	M105	0.1	mg/kg	M	001-003
Anthracene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(a)Anthracene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(a)Pyrene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(b)fluoranthene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(ghi)Perylene	T1086	M105	0.1	mg/kg	M	001-003
Benzo(k)fluoranthene	T1086	M105	0.1	mg/kg	N	001-003
Chrysene	T1086	M105	0.1	mg/kg	M	001-003
Dibenzo(ah)Anthracene	T1086	M105	0.1	mg/kg	M	001-003
Fluoranthene	T1086	M105	0.1	mg/kg	M	001-003
Fluorene	T1086	M105	0.1	mg/kg	M	001-003
Indeno(123-cd)Pyrene	T1086	M105	0.1	mg/kg	M	001-003
Naphthalene	T1086	M105	0.1	mg/kg	M	001-003
Phenanthrene	T1086	M105	0.1	mg/kg	M	001-003
Pyrene	T1086	M105	0.1	mg/kg	M	001-003
PAH(total)	T1086	M105	0.1	mg/kg	N	001-003
TPH (C5-C6)	T54	M105	0.10	mg/kg	N	001-003

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
TPH (C6-C8)	T54	M105	0.10	mg/kg	N	001-003
TPH (C8-C10)	T54	M105	0.10	mg/kg	N	001-003
TPH (C10-C12)	T219	M105	2	mg/kg	U	001-003
TPH (C12-C16)	T219	M105	2	mg/kg	U	001-003
TPH (C16-C21)	T219	M105	2	mg/kg	U	001-003
TPH (C21-C35)	T219	M105	2	mg/kg	U	001-003
TPH (C35-C40)	T219	M105	2	mg/kg	N	001-003
TPH C5-C40 (sum)	T85	M105	10	mg/kg	N	001-003



APPENDIX VIII

GROUNDWATER CHEMICAL SCREENING TABLES

ARUN DISTRICT COUNCIL R/93/19/DOC

Rustington MW1

* LOD raised due to matrix interference

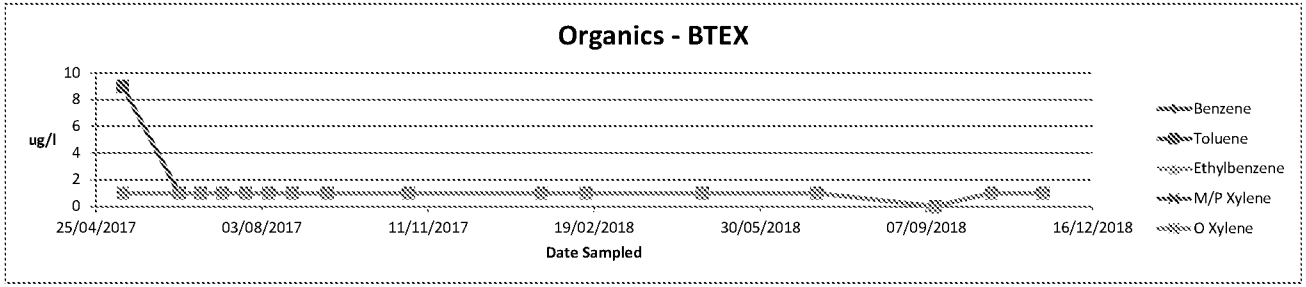
Contaminant	Unit																	
Organics - TPH																		
TPH (C5-C6 aliphatic)	mg/l		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C6-C7 aromatic)	mg/l	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C6-C8 aliphatic)	mg/l		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C7-C8 aromatic)	mg/l		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C8-C10 aliphatic)	mg/l		0.02	0.02	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.2*	0.03	0.02
TPH (C8-C10 aromatic)	mg/l	0.28	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C10-C12 aliphatic)	mg/l	0.468	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C10-C12 aromatic)	mg/l	0.157	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C12-C16 aliphatic)	mg/l		0.07	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C12-C16 aromatic)	mg/l	0.13	0.05	0.01	0.01	0.02	0.03	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C16-C21 aliphatic)	mg/l		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.01
TPH (C16-C21 aromatic)	mg/l	0.393	0.06	0.02	0.02	0.03	0.03	0.02	0.01	0.02	0.03	0.05	0.01	0.01	0.01	0.03	0.02	0.02
TPH (C21-C35 aliphatic)	mg/l	0.118	0.01	0.01	0.01	0.01	0.01	0.04	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.03	0.02	0.02
TPH (C21-C35 aromatic)	mg/l	0.393	0.01	0.04	0.04	0.01	0.03	0.01	0.01	0.02	0.03	0.12	0.01	0.01	0.01	0.02	0.02	0.02
Organics - BTEX																		
Benzene	ug/l	13.7	1	1	1	1	1	1	1	1	1	1	1	1	1	10*	1	1
Toluene	ug/l		1	1	1	1	1	1	1	1	1	1	1	1	1	10*	1	1
Ethylbenzene	ug/l	456	1	1	1	1	1	1	1	1	1	1	1	1	1	10*	1	1
M/P Xylene	ug/l	373	1	1	1	1	1	1	1	1	1	1	1	1	1	10*	1	1
O Xylene	ug/l	407	1	1	1	1	1	1	1	1	1	1	1	1	1	10*	1	1
Organics - VOC(exc' BTEX)																		
1,2,4-Trimethylbenzene	ug/l	72.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Inorganics																		
Manganese	mg/l	Decrease	N/A	0.42	0.61	0.71	0.81	1.1	0.73	0.54	0.7	0.28	0.17	0.043	0.074	<0.01	<0.01	<0.005
Iron	mg/l	Decrease	N/A	0.022	<0.025	<0.005	0.005	0.015	0.008	0.009	<0.025	0.013	0.015	<0.005	0.058	0.19	<0.05	0.093
pH		Slight increase	N/A	7.5	7.8	7.9	7.7	7.8	7.5	7.7	7.6	7.93	7.3	7.78	7.56	6.54	7.41	7.87
Physical Parameters																		
Biological Oxygen Demand	mg/l	Decrease	N/A	9	5	2	2	10	9	4	3	1	3	4	6	6	2	7
Chemical Oxygen Demand	mg/l	Decrease	N/A	25	<20	<20	<20	27	25	<20	<20	23	28	34	25	480	260	130

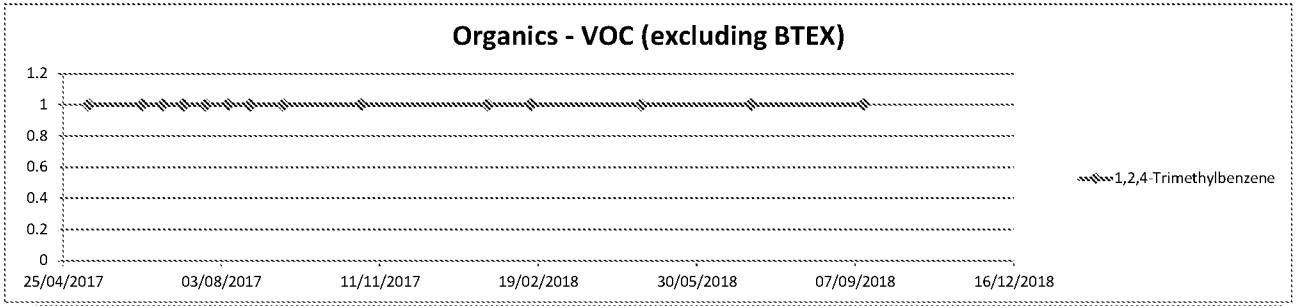
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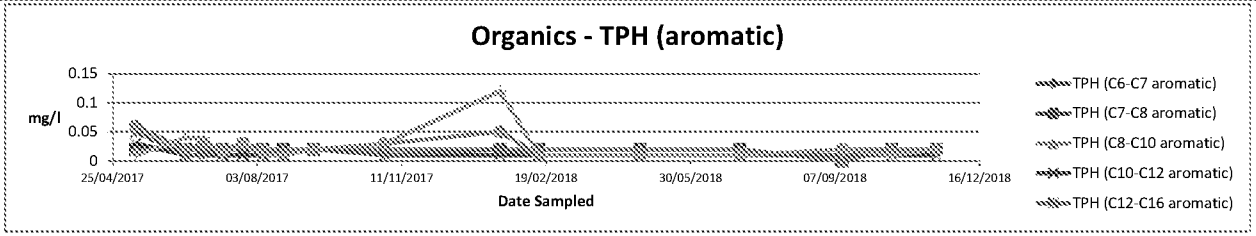
Reached remedial target for ground water.

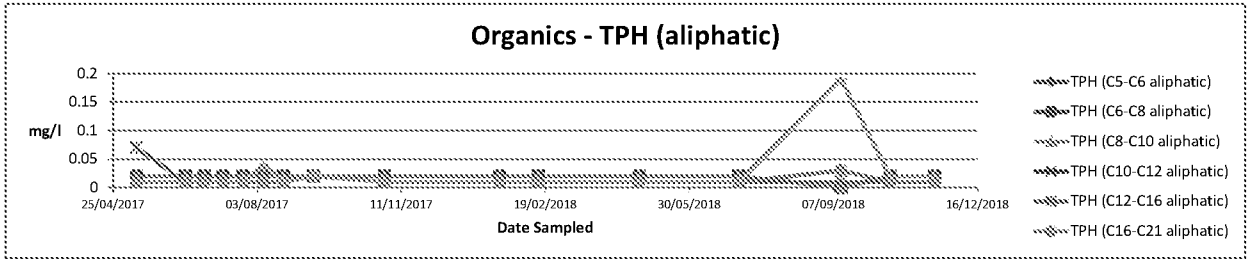
Not reached remedial target for ground water.

Rustington MW1









Rustington MW2

* LOD raised due to matrix interference

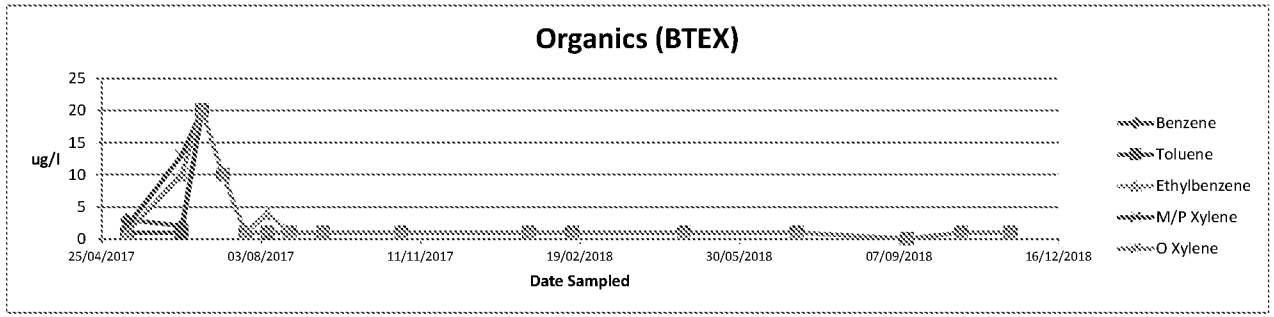
Contaminant	Unit	Clean Value	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14
Organics - TPH																		
TPH (C5-C6 aliphatic)	mg/l		0.02	0.02	0.2	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C6-C7 aromatic)	mg/l	0.02	0.02	0.02	0.2	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C6-C8 aliphatic)	mg/l		0.02	0.02	0.2	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C7-C8 aromatic)	mg/l		0.02	0.02	0.2	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C8-C10 aliphatic)	mg/l		0.02	0.02	0.2	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C8-C10 aromatic)	mg/l	0.28	0.061	0.058	0.27	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C10-C12 aliphatic)	mg/l	0.468	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C10-C12 aromatic)	mg/l	0.157	0.08	0.07	0.05	0.04	0.05	0.03	0.07	0.07	0.06	0.09	0.08	0.1	0.07	0.08	0.05	0.1
TPH (C12-C16 aliphatic)	mg/l		0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C12-C16 aromatic)	mg/l	0.13	0.07	0.05	0.13	0.03	0.03	0.03	0.05	0.05	0.04	0.04	0.03	0.04	0.03	0.03	0.03	0.05
TPH (C16-C21 aliphatic)	mg/l		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01
TPH (C16-C21 aromatic)	mg/l	0.393	0.28	0.37	0.29	0.34	0.29	0.01	0.08	0.13	0.08	0.08	0.31	0.08	0.08	0.25	0.03	0.03
TPH (C21-C35 aliphatic)	mg/l	0.118	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.04	0.02	0.02	0.02	0.08	0.05	0.04
TPH (C21-C35 aromatic)	mg/l	0.393	0.3	0.33	0.36	0.27	0.08	0.01	0.16	0.02	0.12	0.08	0.31	0.08	0.12	0.37	0.11	0.08
Organics - BTEX																		
Benzene	ug/l	13.7	3	2	20	10	1	1	1	1	1	1	1	1	1	10*	1	1
Toluene	ug/l		1	1	20	10	1	1	1	1	1	1	1	1	1	10*	1	1
Ethylbenzene	ug/l	456	1	10	20	10	1	4	1	1	1	1	1	1	1	10*	1	1
M/P Xylene	ug/l	373	2	13	20	10	1	1	1	1	1	1	1	1	1	10*	1	1
O Xylene	ug/l	407	1	10	20	10	1	1	1	1	1	1	1	1	1	10*	1	1
Organics - VOC (exc' BTEX)																		
1,2,4-Trimethylbenzene	ug/l	72.1	13	2	20	10	1	2	2	1	1	1	1	1	2	1	1	1
Inorganics																		
Manganese	mg/l	Decrease	N/A	<0.05	0.011	0.019	0.06	0.019	0.063	0.056	0.29	0.59	4.7	16	10	0.049	1.6	0.54
Iron	mg/l	Decrease	N/A	<0.25	<0.025	<0.05	<0.05	<0.05	0.062	<0.05	<0.025	<0.05	0.23	48	62	0.081	<0.05	0.28
pH		Slight increase	N/A	7.2	7.8	7.4	7.3	7.3	7	7.3	7	7.13	6.82	7.45	6.79	7.66	6.96	7.61
Physical Parameters																		
Biological Oxygen Demand	mg/l	Decrease	N/A	13	5	7	<1	7	7	5	6	5	5	7	18	15	4	9
Chemical Oxygen Demand	mg/l	Decrease	N/A	2400	<20	710	430	340	240	220	160	130	67	110	91	1100	240	210

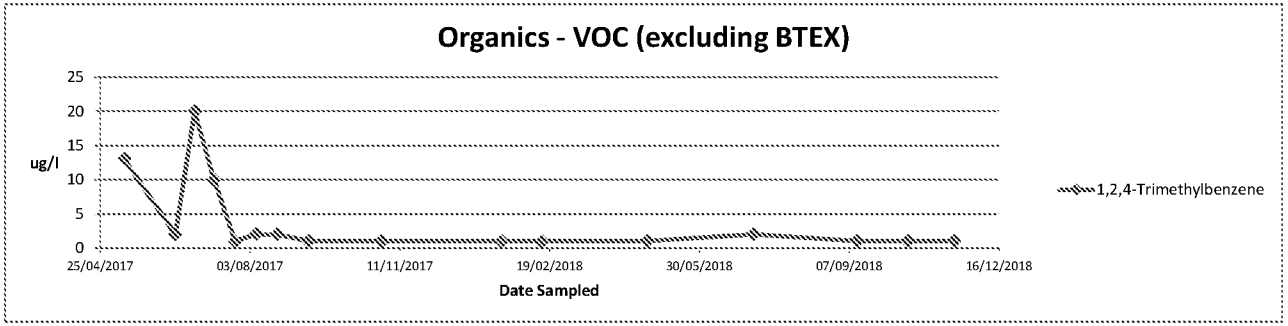
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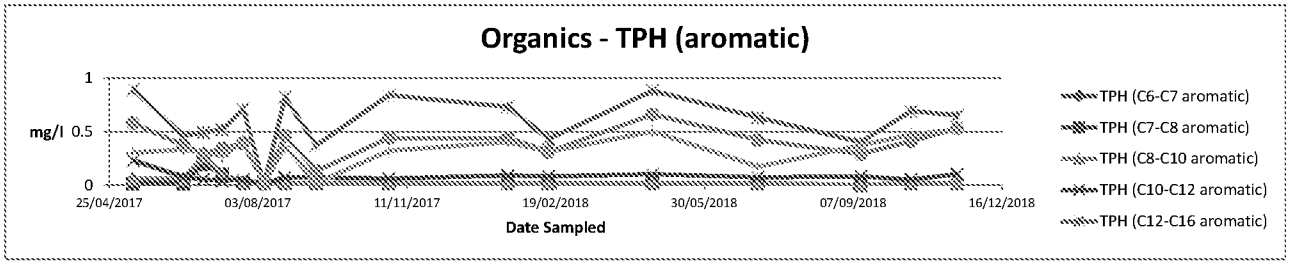
Reached remedial target for ground water.

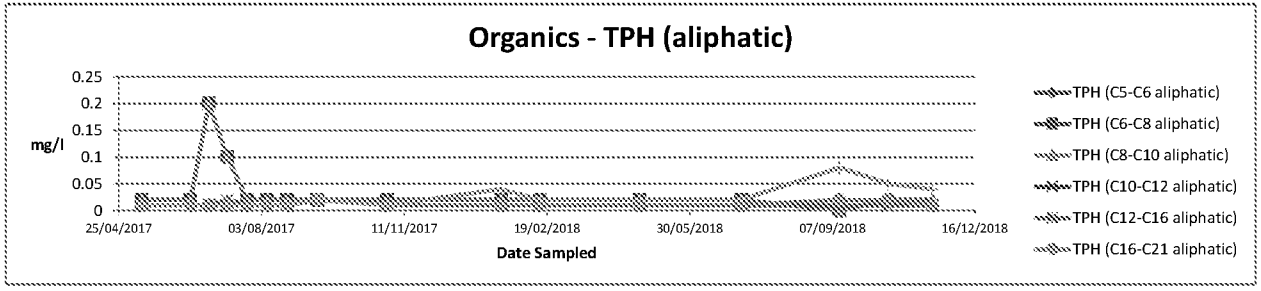
Not reached remedial target for ground water.

Rustington MW2









Rustington MW3

* LOD raised due to matrix interference

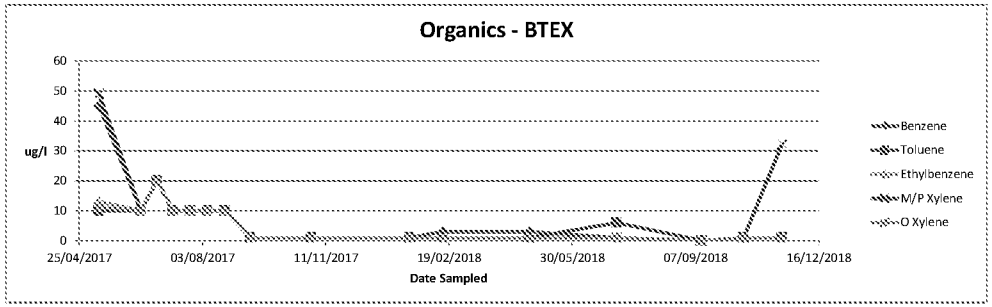
Date Sampled		Target Value	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15
Contaminant	Unit																	
Organics - TPH																		
TPH (C5-C6 aliphatic)	mg/l		0.022	0.2	0.2	0.1	0.1	0.05	0.1	0.091	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C6-C7 aromatic)	mg/l	0.02	0.02	0.2	0.2	0.1	0.1	0.05	0.1	0.03	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C6-C8 aliphatic)	mg/l		0.02	0.2	0.2	0.1	0.1	0.05	0.1	0.03	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C7-C8 aromatic)	mg/l		0.02	0.2	0.2	0.1	0.1	0.05	0.1	0.03	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C8-C10 aliphatic)	mg/l		0.02	0.2	0.2	0.1	0.1	0.05	0.1	0.03	0.02	0.02	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C8-C10 aromatic)	mg/l	0.28	0.23	0.2	1.7	0.1	0.1	0.05	0.1	0.03	0.03	0.03	0.02	0.02	0.02	0.2*	0.02	0.02
TPH (C10-C12 aliphatic)	mg/l	0.468	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C10-C12 aromatic)	mg/l	0.157	0.08	0.02	0.01	0.01	0.01	0.01	0.005	0.02	0.02	0.03	0.03	0.02	0.01	0.01	0.02	0.07
TPH (C12-C16 aliphatic)	mg/l		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C12-C16 aromatic)	mg/l	0.13	0.1	0.1	0.08	0.1	0.05	0.05	0.05	0.09	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05
TPH (C16-C21 aliphatic)	mg/l		0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.01
TPH (C16-C21 aromatic)	mg/l	0.393	0.08	0.06	0.06	0.08	0.12	0.17	0.18	0.08	0.14	0.22	0.13	0.16	0.12	0.08	0.13	0.19
TPH (C21-C35 aliphatic)	mg/l	0.118	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.04	0.02	0.06	0.01	0.01	0.03	0.03
TPH (C21-C35 aromatic)	mg/l	0.393	0.31	0.07	0.03	0.01	0.04	0.12	0.12	0.02	0.08	0.23	0.13	0.12	0.04	0.07	0.13	0.12
Organics - BTEX																		
Benzene	ug/l	13.7	10	10	20	10	10	10	10	1	1	1	1	1	1	10*	1	1
Toluene	ug/l		10	10	20	10	10	10	10	1	1	1	1	1	1	10*	1	1
Ethylbenzene	ug/l	456	13	10	20	10	10	10	10	1	1	1	1	1	1	10*	1	1
M/P Xylene	ug/l	373	40	10	20	10	10	10	10	1	1	1	1	1	1	10*	1	42
O Xylene	ug/l	407	11	10	20	10	10	10	10	1	1	1	1	1	1	10*	1	1
Organics - VOC (exc' BTEX)																		
1,2,4-Trimethylbenzene	ug/l	72.1	26	10	20	10	10	10	10	1	1	1	1	1	1	1	1	1
Inorganics																		
Manganese	mg/l	Decrease	N/A	<0.05	0.037	<0.01	<0.025	0.011	<0.01	0.013	0.089	0.071	1.1	2	1.9	0.011	0.055	<0.01
Iron	mg/l	Decrease	N/A	<0.25	0.47	<0.05	<0.13	<0.05	0.14	<0.05	<0.025	<0.05	0.035	<0.05	0.23	0.06	<0.05	<0.05
pH		Slight increase	N/A	7.5	7.6	7.5	7.4	7.4	7.1	7.3	8.3	7.13	6.98	7.45	7.09	7.71	6.92	7.52
Physical Parameters																		
Biological Oxygen Demand	mg/l	Decrease	N/A	12	7	4	<1	4	4	4	4	4	5	5	11	6	3	6
Chemical Oxygen Demand	mg/l	Decrease	N/A	1100	730	530	460	500	290	220	150	100	67	69	110	620	180	130

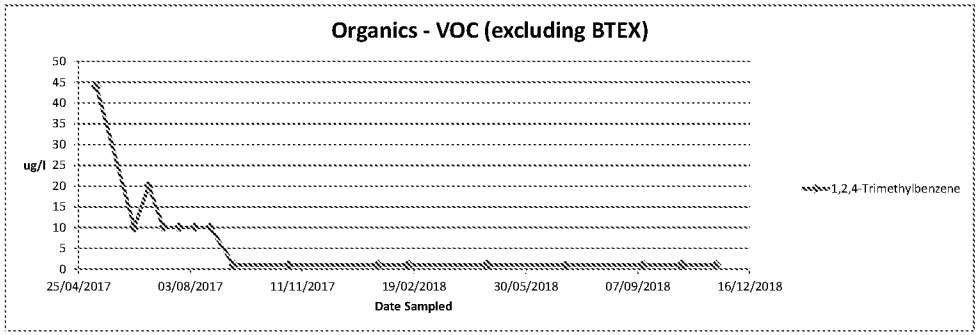
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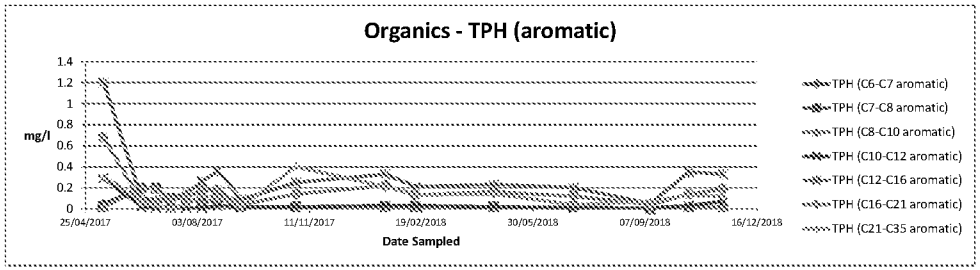
Reached remedial target for ground water.

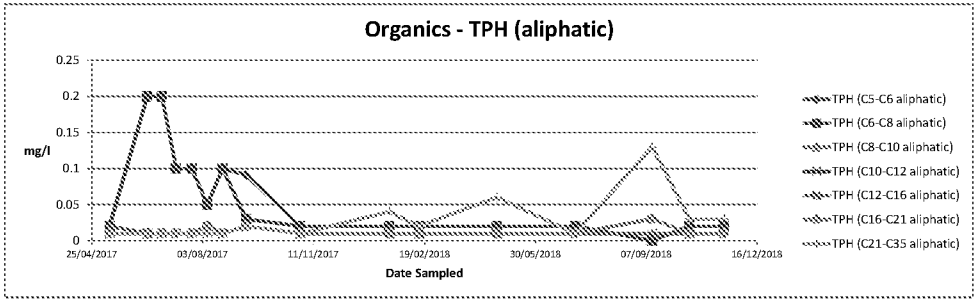
Not reached remedial target for ground water.

Rustington MW3









Rustington MW4

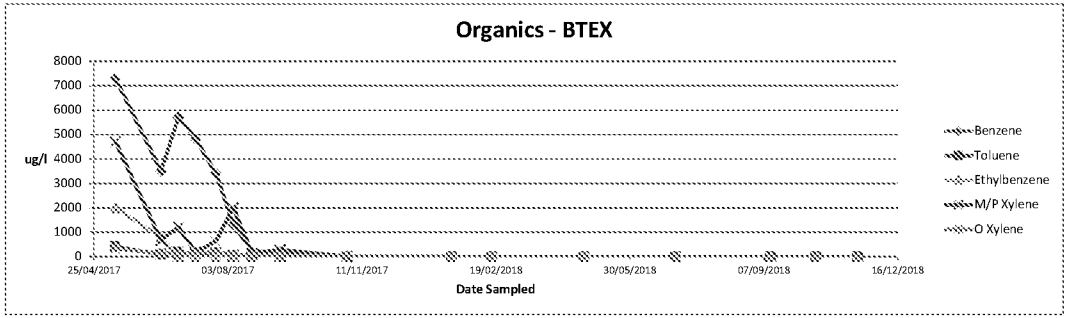
Contaminant	Unit	Remedial Target	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Contaminant	Unit																
Organics - TPH																	
TPH (C5-C6 aliphatic)	mg/l		4.5	0.097	1.5	0.97	0.85	3.2	0.51	1.3	0.098	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C6-C7 aliphatic)	mg/l	0.02	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C6-C8 aliphatic)	mg/l		2.3	0.064	0.74	0.68	0.33	4.2	0.19	0.76	0.06	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C7-C8 aliphatic)	mg/l		0.41	0.089	0.17	0.11	0.14	0.026	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C8-C10 aliphatic)	mg/l		0.57	0.02	0.34	0.5	0.02	3.6	0.02	0.58	0.02	0.02	0.02	0.02	0.083	0.02	0.02	0.02
TPH (C8-C10 aromatic)	mg/l	0.28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.13	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C10-C12 aliphatic)	mg/l	0.468	[illegible]	0.01	0.03	0.03	0.02	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C10-C12 aromatic)	mg/l	0.157	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.01	0.07	0.09	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C12-C16 aliphatic)	mg/l		0.26	0.01	0.05	0.07	0.03	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C12-C16 aromatic)	mg/l	0.13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.01	0.06	0.08	0.02	0.01	0.01	0.03	0.01	0.02	0.01	0.01
TPH (C16-C21 aliphatic)	mg/l		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01
TPH (C16-C21 aromatic)	mg/l	0.393	0.19	0.1	0.13	0.23	0.11	0.01	0.11	0.02	0.03	0.02	0.01	0.06	0.16	0.07	0.04	0.05
TPH (C21-C35 aliphatic)	mg/l	0.118	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.02	0.01	0.05	0.03	0.06	0.03	0.01
TPH (C21-C35 aromatic)	mg/l	0.393	0.02	0.12	0.08	0.06	0.12	0.01	0.13	0.02	0.02	0.05	0.01	0.15	0.22	0.19	0.13	0.13
Organics - BTEX																		
Benzene	ug/l	13.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1300	[illegible]	[illegible]	1	1	1	1	1	1	1	1
Toluene	ug/l		810	83	176	110	140	28	6	10	1	1	1	1	1	1	1	1
Ethylbenzene	ug/l	456	[illegible]	[illegible]	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M/P Xylene	ug/l	373	[illegible]	[illegible]	[illegible]	160	[illegible]	[illegible]	130	270	1	1	1	1	1	1	1	1
O Xylene	ug/l	407	320	120	150	150	170	76	52	80	8	1	1	1	1	1	1	1
Organics - VOC (exc' BTEX)																		
1,2,4-Trimethylbenzene	ug/l	72.1	[illegible]	37	[illegible]	6	[illegible]	[illegible]	1	4	1	1	1	1	1	1	1	1
Inorganics																		
Manganese	mg/l	Decrease	N/A	1.7	1.8	1.9	1.5	1.1	1.3	1.2	0.67	0.12	0.018	0.62	0.25	0.11	0.037	0.01
Iron	mg/l	Decrease	N/A	4.4	<0.005	<0.05	0.075	0.097	0.18	0.1	0.15	0.033	0.009	0.094	0.035	0.012	0.45	0.029
pH		Slight increase	N/A	7.2	7.7	7.6	8	7.7	7.8	7.7	7.5	8.2	7.98	8.13	7.98	8.19	7.52	7.87
Physical Parameters																		
Biological Oxygen Demand	mg/l	Decrease	N/A	26	17	9	15	17	15	8	4	2	3	6	14	9	6	6
Chemical Oxygen Demand	mg/l	Decrease	N/A	120	110	51	38	46	73	59	23	<20	24	74	93	45	30	21

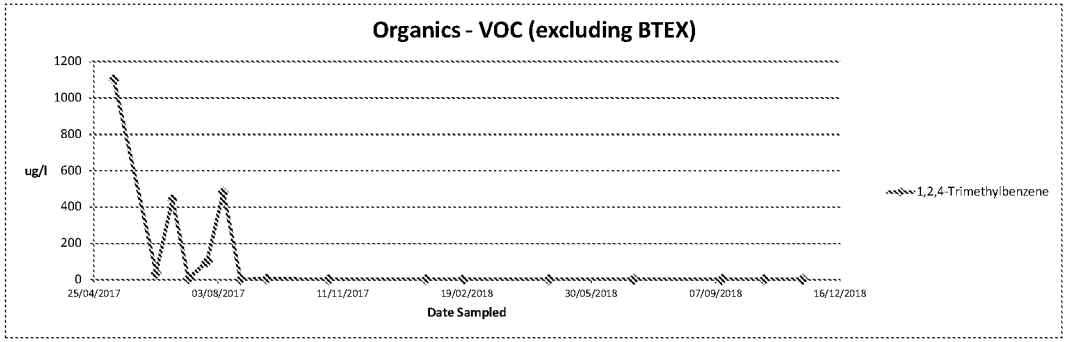
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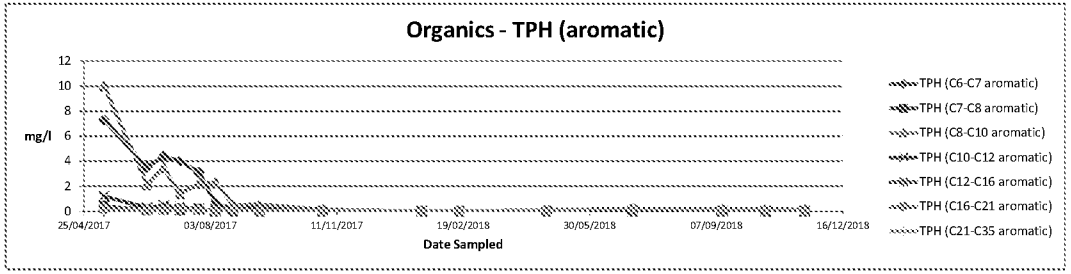
[illegible] remedial target for ground water.

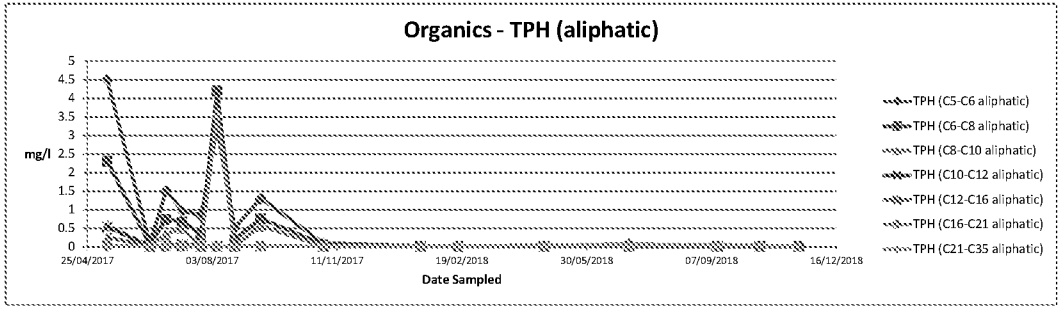
Not reached remedial target for ground water.

Rustington MW4









Rustington MW5

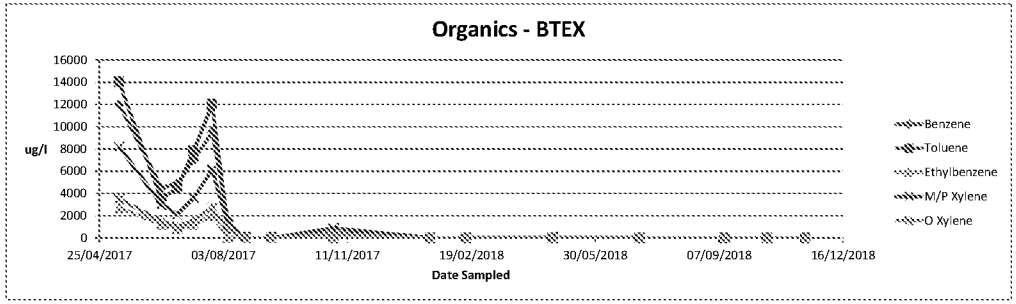
Contaminant	Unit	Remedial Target	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
Contaminant	Unit																
Organics - TPH																	
TPH (C5-C6 aliphatic)	mg/l		4.4	0.57	0.54	0.98	2.5	1	0.1	0.41	7.2	0.095	0.02	0.17	0.27	0.09	0.02	0.02
TPH (C6-C7 aromatic)	mg/l	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C6-C8 aliphatic)	mg/l		3.2	0.71	0.48	0.61	2.1	0.61	0.1	0.2	3	0.031	0.02	0.02	0.085	0.04	0.02	0.02
TPH (C7-C8 aromatic)	mg/l		14	3.5	4.3	3.3	4.2	2.4	0.1	0.2	0.037	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C8-C10 aliphatic)	mg/l		3.6	0.33	0.23	0.22	1.5	0.32	0.1	0.2	0.51	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C8-C10 aromatic)	mg/l	0.28	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.23	0.1	0.005	0.02	0.22	0.02	0.02	0.02	0.02
TPH (C10-C12 aliphatic)	mg/l	0.468	0.1	0.12	0.07	0.04	0.07	0.01	0.01	0.03	0.02	0.04	0.01	0.01	0.02	0.01	0.01	0.01
TPH (C10-C12 aromatic)	mg/l	0.157	0.1	0.2	0.1	0.1	0.1	0.07	0.01	0.04	0.06	0.03	0.01	0.04	0.08	0.03	0.01	0.01
TPH (C12-C16 aliphatic)	mg/l		0.59	0.12	0.13	0.13	0.09	0.03	0.01	0.02	0.01	0.01	0.01	0.02	0.01	0.02	0.01	0.01
TPH (C12-C16 aromatic)	mg/l	0.13	0.1	0.1	0.1	0.1	0.1	0.1	0.12	0.02	0.11	0.1	0.02	0.07	0.14	0.08	0.06	0.06
TPH (C16-C21 aliphatic)	mg/l		0.06	0.02	0.04	0.04	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.13	0.01	0.03	0.02	0.01
TPH (C16-C21 aromatic)	mg/l	0.393	0.29	0.43	0.26	0.1	0.29	0.13	0.23	0.02	0.16	0.17	0.07	0.15	0.26	0.31	0.24	0.22
TPH (C21-C35 aliphatic)	mg/l	0.118	0.08	0.01	0.01	0.01	0.01	0.03	0.01	0.02	0.01	0.06	0.01	0.03	0.02	0.08	0.03	0.02
TPH (C21-C35 aromatic)	mg/l	0.393	0.07	0.43	0.39	0.26	0.35	0.11	0.18	0.02	0.07	0.19	0.04	0.16	0.19	0.35	0.31	0.27
Organics - BTEX																		
Benzene	ug/l	13.7	14000	3500	4300	7800	12000	1400	10	10	470	5	1	45	1	1	1	1
Toluene	ug/l		14000	3500	4300	7800	12000	620	10	10	57	2	1	5	1	1	1	1
Ethylbenzene	ug/l	456	3500	760	960	1500	2400	32	10	10	1	1	1	2	1	1	1	1
M/P Xylene	ug/l	373	7000	2000	1700	3400	4800	1100	10	10	270	11	1	79	1	1	1	1
O Xylene	ug/l	407	3500	1400	887	3400	4800	500	10	10	330	6	1	13	1	1	1	1
Organics - VOC (exc' BTEX)								120										
1,2,4-Trimethylbenzene	ug/l	72.1	1400	700	760	1	800	190	10	10	6	1	1	13	1	1	1	1
Inorganics																		
Manganese	mg/l	Decrease	N/A	4.4	1.9	3.3	5.7	2	0.57	0.67	2.4	0.15	0.023	0.96	1.9	0.61	0.38	0.21
Iron	mg/l	Decrease	N/A	<0.25	<0.05	<0.05	0.05	0.16	0.15	0.17	1.6	0.01	0.04	0.81	0.088	0.17	0.049	0.17
pH		Slight increase	N/A	7.4	7.5	7.4	7.5	7.4	7.8	7.7	7.8	7.92	7.94	7.83	7.71	7.94	7.52	7.68
Physical Parameters																		
Biological Oxygen Demand	mg/l	Decrease	N/A	16	5	20	90	32	13	9	11	5	4	13	6	12	12	13
Chemical Oxygen Demand	mg/l	Decrease	N/A	670	610	490	510	200	110	100	90	46	28	110	110	210	110	73

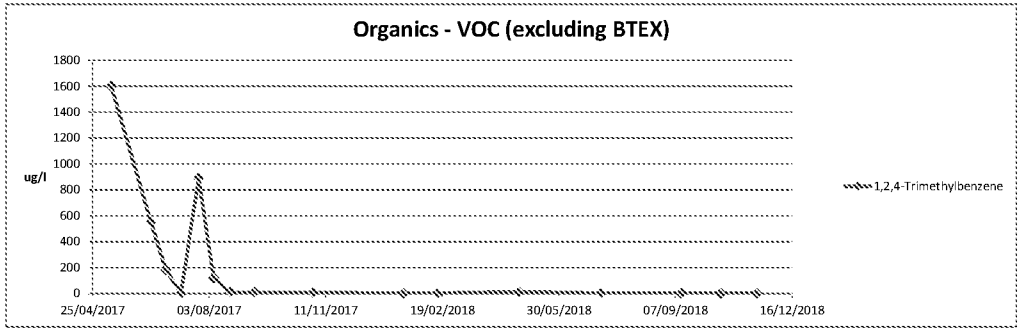
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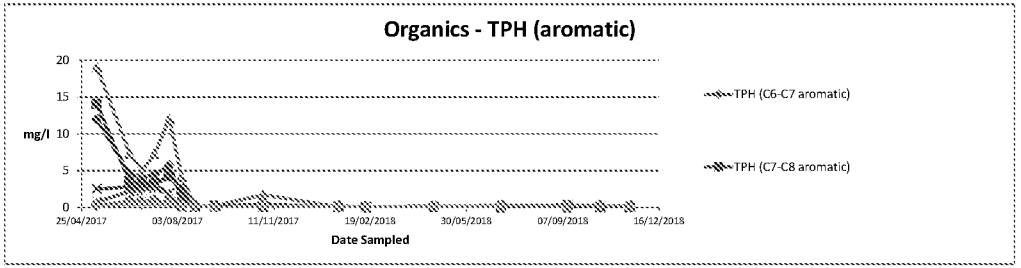
Reached remedial target for ground water.

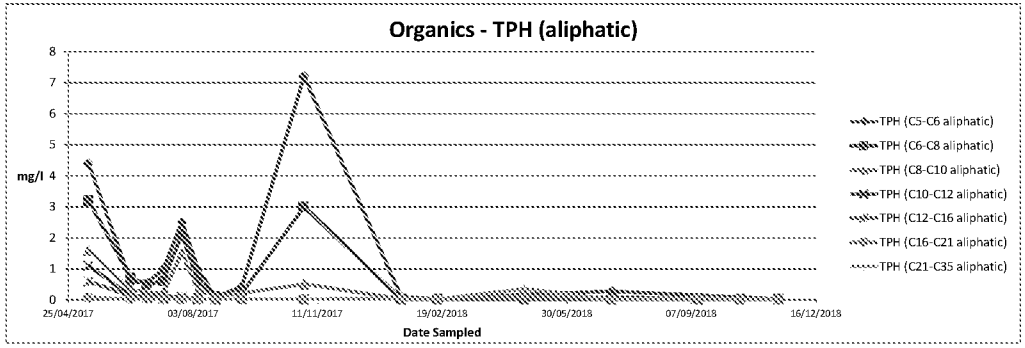
Not reached remedial target for ground water.

Rustington MW5









Rustington MW6

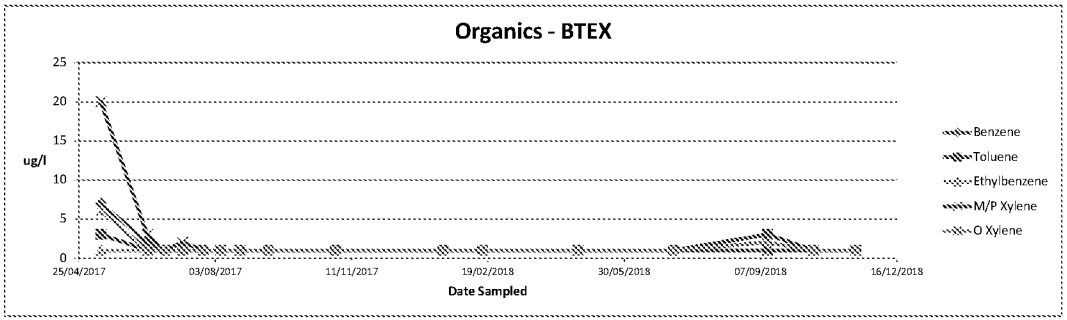
Contaminant	Unit	Remedial Target	Round 1	Round 2	Round 3	Round 4	Round 5	Round 6	Round 7	Round 8	Round 9	Round 10	Round 11	Round 12	Round 13	Round 14	Round 15	Round 16
Contaminant	Unit																	
Organics - TPH																		
TPH (C5-C6 aliphatic)	mg/l		0.39	0.039	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C6-C7 aromatic)	mg/l	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C6-C8 aliphatic)	mg/l		0.4	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C7-C8 aromatic)	mg/l		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C8-C10 aliphatic)	mg/l		0.11	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C8-C10 aromatic)	mg/l	0.28	0.14	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C10-C12 aliphatic)	mg/l	0.468	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.01
TPH (C10-C12 aromatic)	mg/l	0.157	0.11	0.04	0.01	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.01
TPH (C12-C16 aliphatic)	mg/l		0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C12-C16 aromatic)	mg/l	0.13	0.05	0.1	0.03	0.08	0.14	0.03	0.02	0.02	0.01	0.04	0.01	0.03	0.01	0.08	0.03	0.04
TPH (C16-C21 aliphatic)	mg/l		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.01
TPH (C16-C21 aromatic)	mg/l	0.393	0.03	0.06	0.02	0.23	0.32	0.1	0.14	0.02	0.04	0.11	0.05	0.03	0.06	0.18	0.14	0.16
TPH (C21-C35 aliphatic)	mg/l	0.118	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.01	0.06	0.01	0.01	0.02	0.06	0.03	0.04
TPH (C21-C35 aromatic)	mg/l	0.393	0.01	0.06	0.01	0.18	0.25	0.13	0.13	0.02	0.01	0.1	0.03	0.04	0.1	0.27	0.29	0.22
Organics - BTEX																		
Benzene	ug/l	13.7	7	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1
Toluene	ug/l		1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1
Ethylbenzene	ug/l	456	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M/P Xylene	ug/l	373	20	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1
O Xylene	ug/l	407	6	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1
Organics - VOC (exc' BTEX)																		
1,2,4-Trimethylbenzene	ug/l	72.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Inorganics																		
Manganese	mg/l	Decrease	N/A	<0.05	<0.01	<0.01	0.48	0.34	0.14	0.019	0.13	0.017	0.016	0.046	0.38	0.13	0.08	0.022
Iron	mg/l	Decrease	N/A	0.56	<0.05	<0.05	<0.025	0.065	0.41	<0.025	<0.025	0.008	0.039	0.041	0.006	0.11	0.26	0.052
pH		Slight increase	N/A	11.8	12	11.5	8.2	7.9	7.9	8.3	7.9	8.06	7.89	7.98	8.07	7.65	7.7	7.77
Physical Parameters																		
Biological Oxygen Demand	mg/l	Decrease	N/A	2	<1	8	6	8	7	3	3	<1	3	3	9	12	10	10
Chemical Oxygen Demand	mg/l	Decrease	N/A	370	170	240	120	73	63	55	45	34	30	48	39	350	100	60

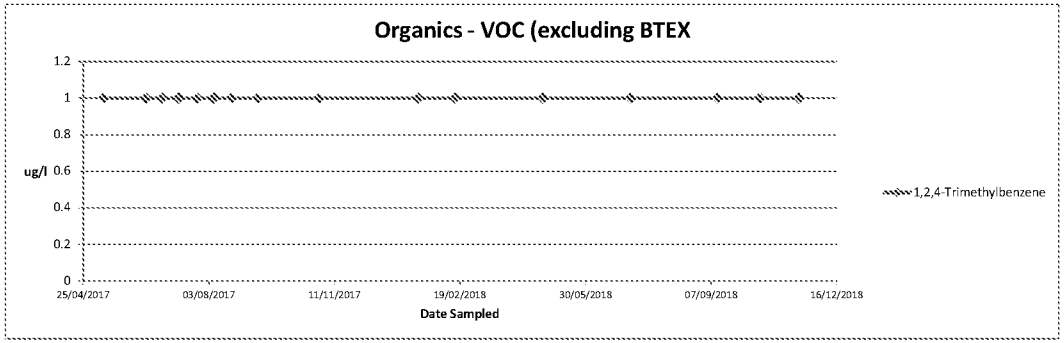
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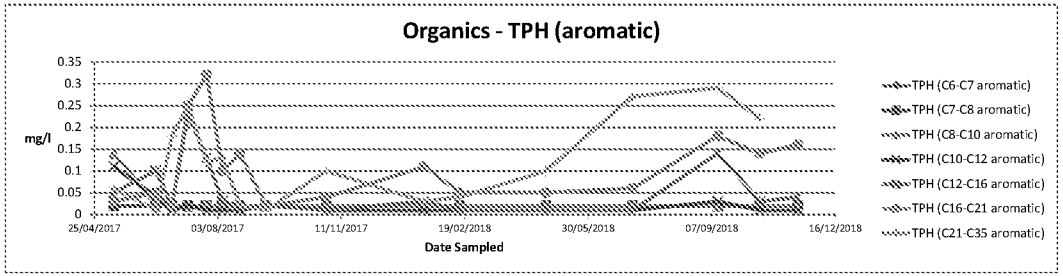
Reached remedial target for ground water.

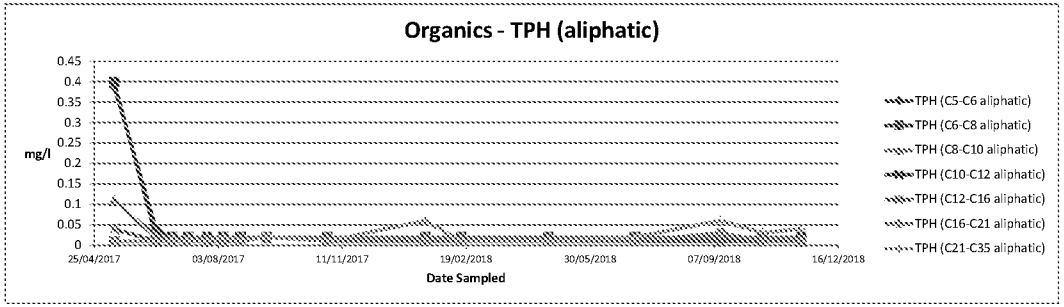
Not reached remedial target for ground water.

Rustington MW6









Rustington MW7

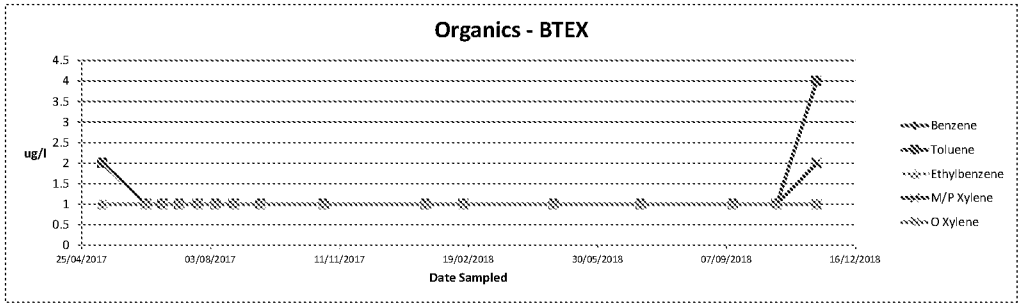
Sample Number																	
Contaminant	Unit	Trajectory															
Organics - TPH																	
TPH (C5-C6 aliphatic)	mg/l		0.39	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C6-C7 aromatic)	mg/l	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C6-C8 aliphatic)	mg/l		0.88	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C7-C8 aromatic)	mg/l		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C8-C10 aliphatic)	mg/l		0.33	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C8-C10 aromatic)	mg/l	0.28	0.038	0.02	0.02	0.03	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TPH (C10-C12 aliphatic)	mg/l	0.468	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C10-C12 aromatic)	mg/l	0.157	0.07	0.01	0.01	0.03	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.01
TPH (C12-C16 aliphatic)	mg/l		0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TPH (C12-C16 aromatic)	mg/l	0.13	0.04	0.03	0.03	0.07	0.11	0.02	0.01	0.02	0.03	0.03	0.02	0.01	0.03	0.02	0.09	0.07
TPH (C16-C21 aliphatic)	mg/l		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01
TPH (C16-C21 aromatic)	mg/l	0.393	0.05	0.03	0.02	0.14	0.24	0.08	0.07	0.02	0.12	0.05	0.05	0.03	0.01	0.02	0.09	0.08
TPH (C21-C35 aliphatic)	mg/l	0.118	0.01	0.01	0.03	0.01	0.01	0.03	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03
TPH (C21-C35 aromatic)	mg/l	0.393	0.01	0.01	0.01	0.1	0.28	0.11	0.07	0.02	0.01	0.06	0.03	0.07	0.02	0.04	0.16	0.16
Organics - BTEX																		
Benzene	ug/l	13.7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Toluene	ug/l		2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
Ethylbenzene	ug/l	456	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M/P Xylene	ug/l	373	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
O Xylene	ug/l	407	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Organics - VOC (exc' BTEX)																		
1,2,4-Trimethylbenzene	ug/l	72.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Inorganics																		
Manganese	mg/l	Decrease	N/A	0.47	<0.01	<0.01	<0.005	<0.001	<0.001	0.001	<0.005	0.003	0.003	<0.001	<0.001	<0.001	<0.005	<0.005
Iron	mg/l	Decrease	N/A	0.56	<0.05	<0.05	<0.025	0.009	0.059	0.006	<0.025	0.009	<0.005	<0.005	<0.005	<0.005	0.035	<0.025
pH		Slight increase	N/A	11.7	11.5	11.3	9.2	9.1	11.2	10.6	10.2	9.17	9.57	9.55	9.44	11.6	11.3	10.4
Physical Parameters																		
Biological Oxygen Demand	mg/l	Decrease	N/A	2	<1	3	<1	7	3	<1	<1	<1	3	3	4	<1	11	6
Chemical Oxygen Demand	mg/l	Decrease	N/A	320	160	170	90	70	67	64	35	35	29	35	31	140	74	53

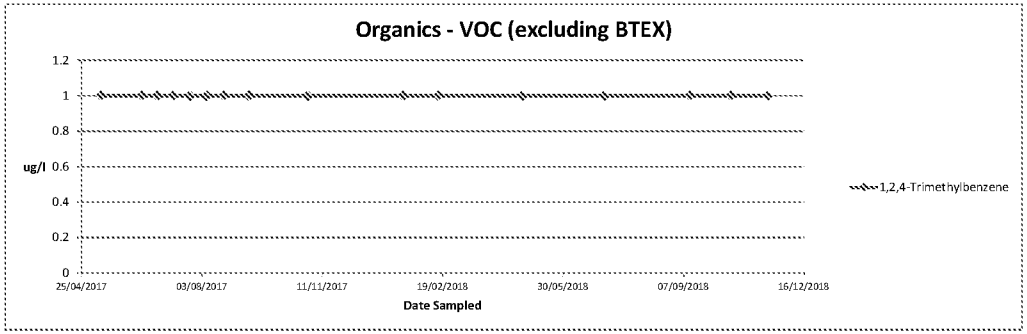
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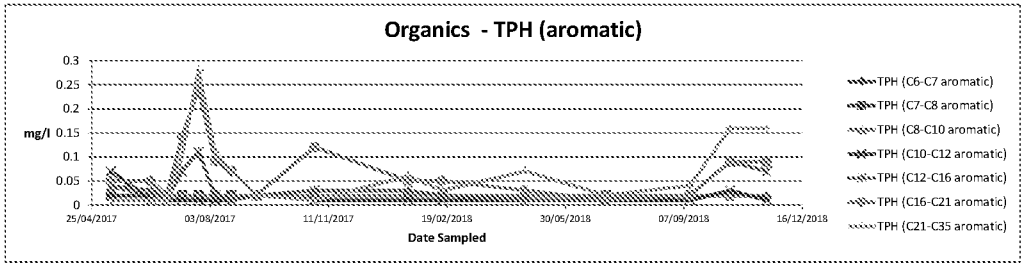
Reached remedial target for ground water.

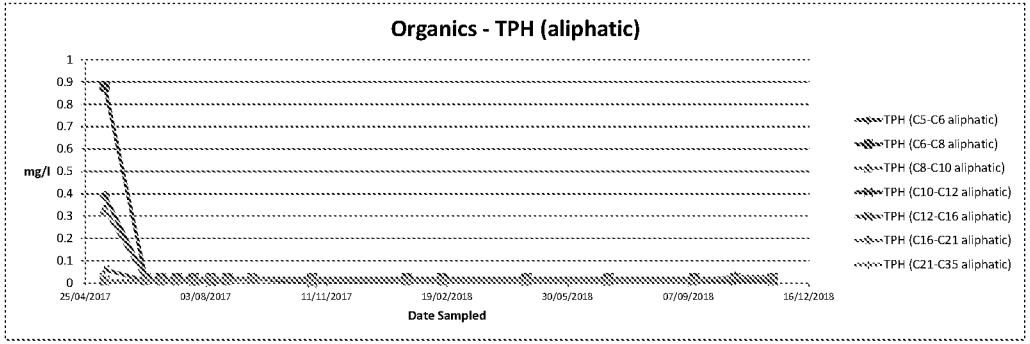
Not reached remedial target for ground water.

Rustington MW7



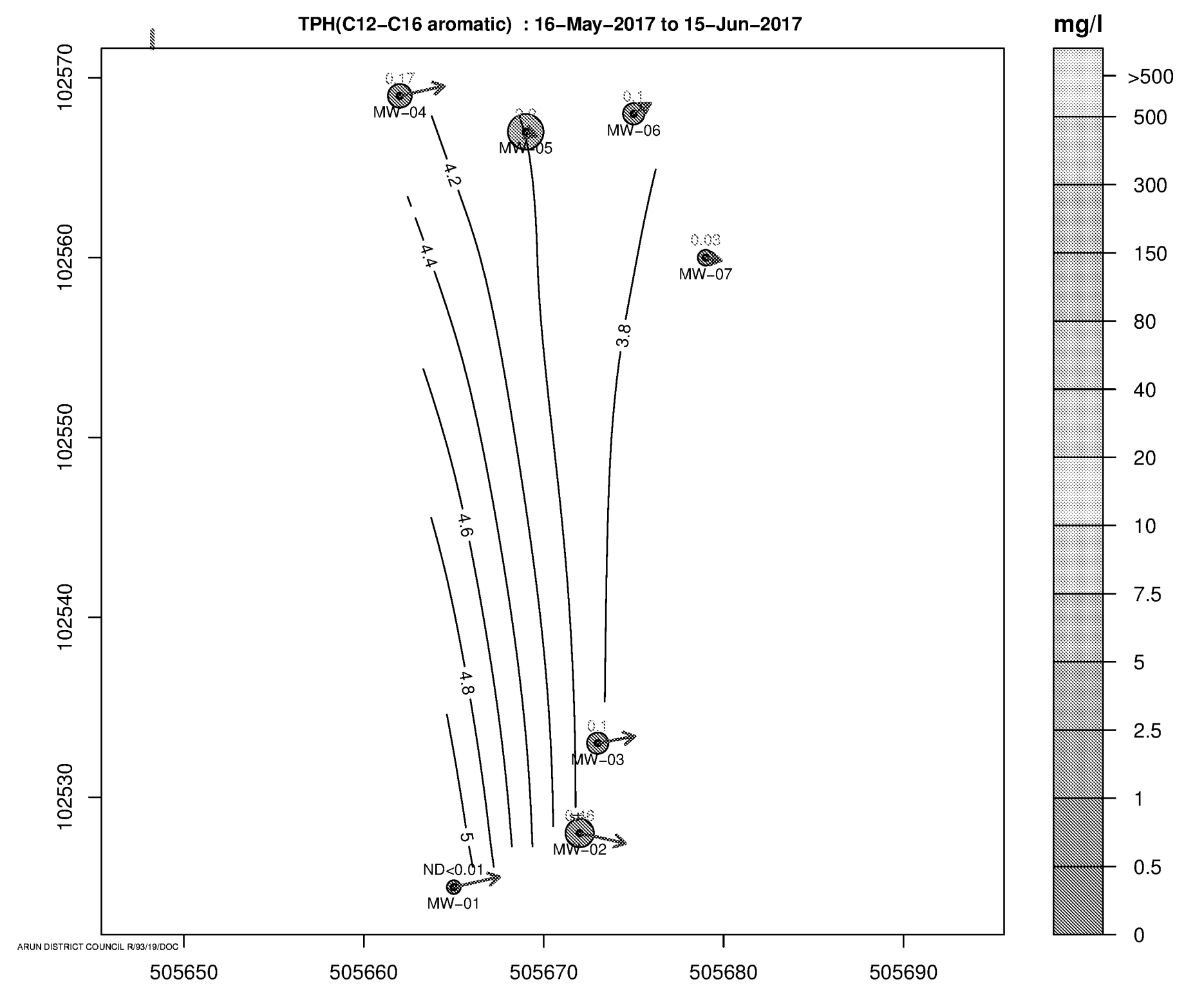


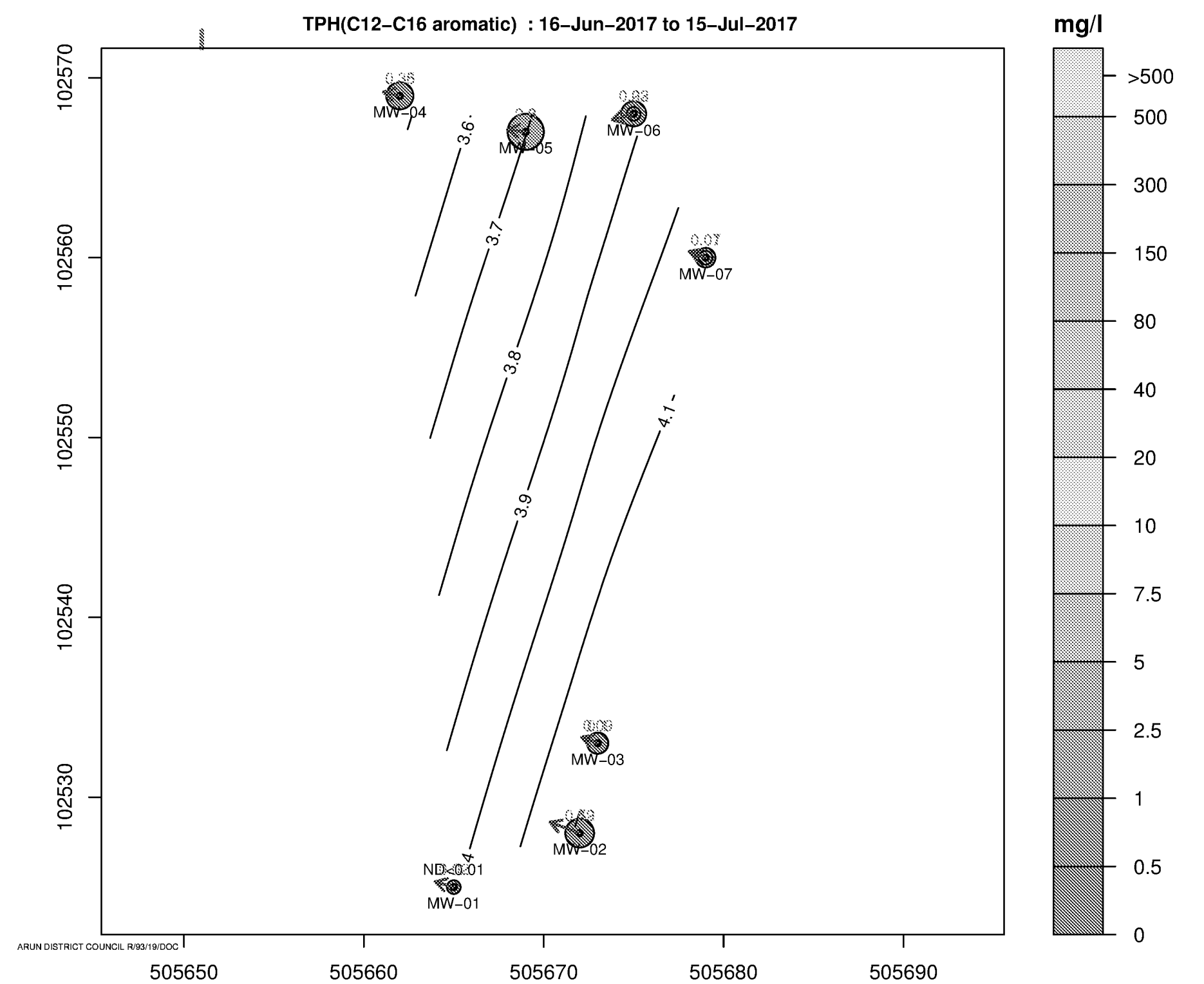


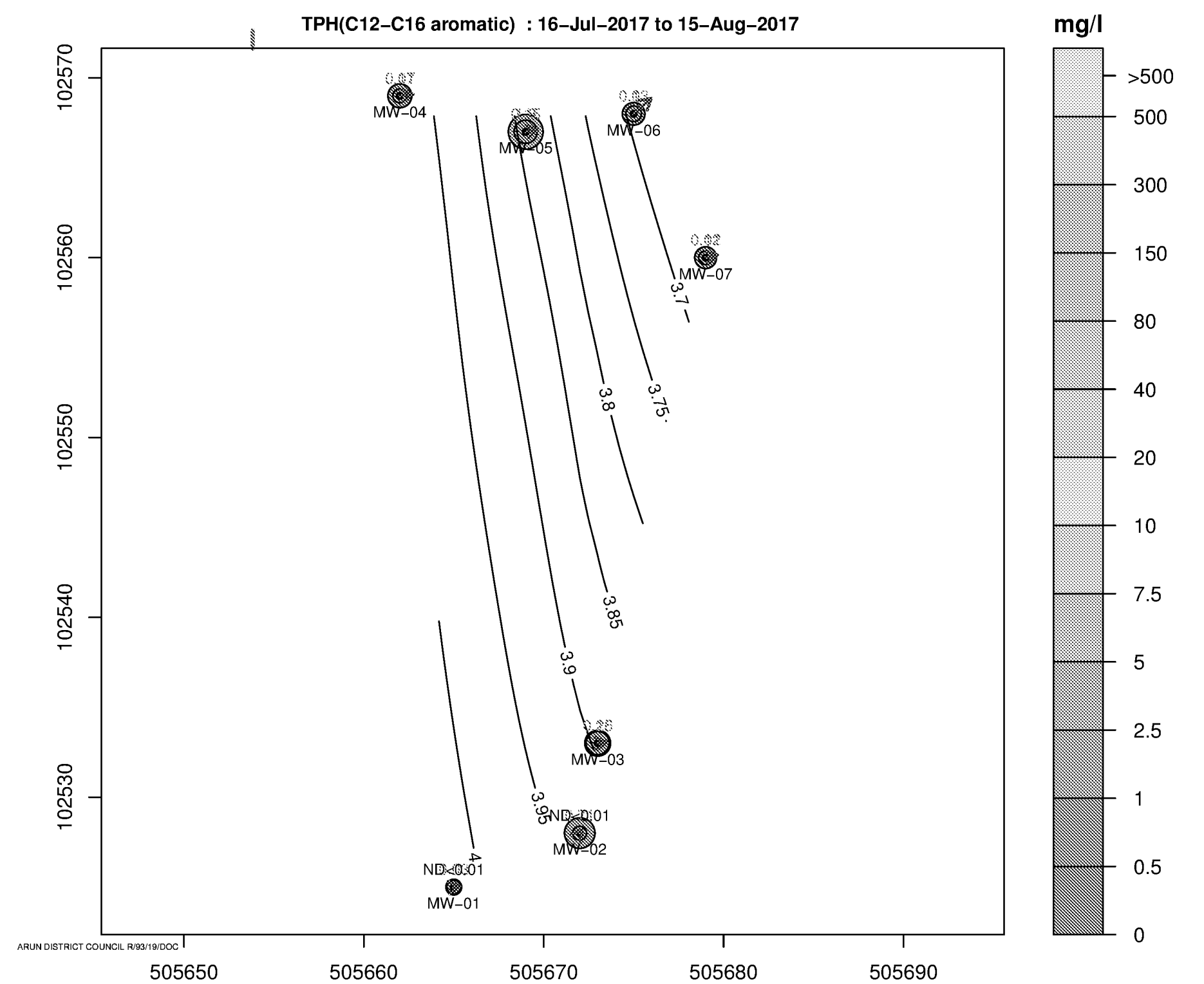


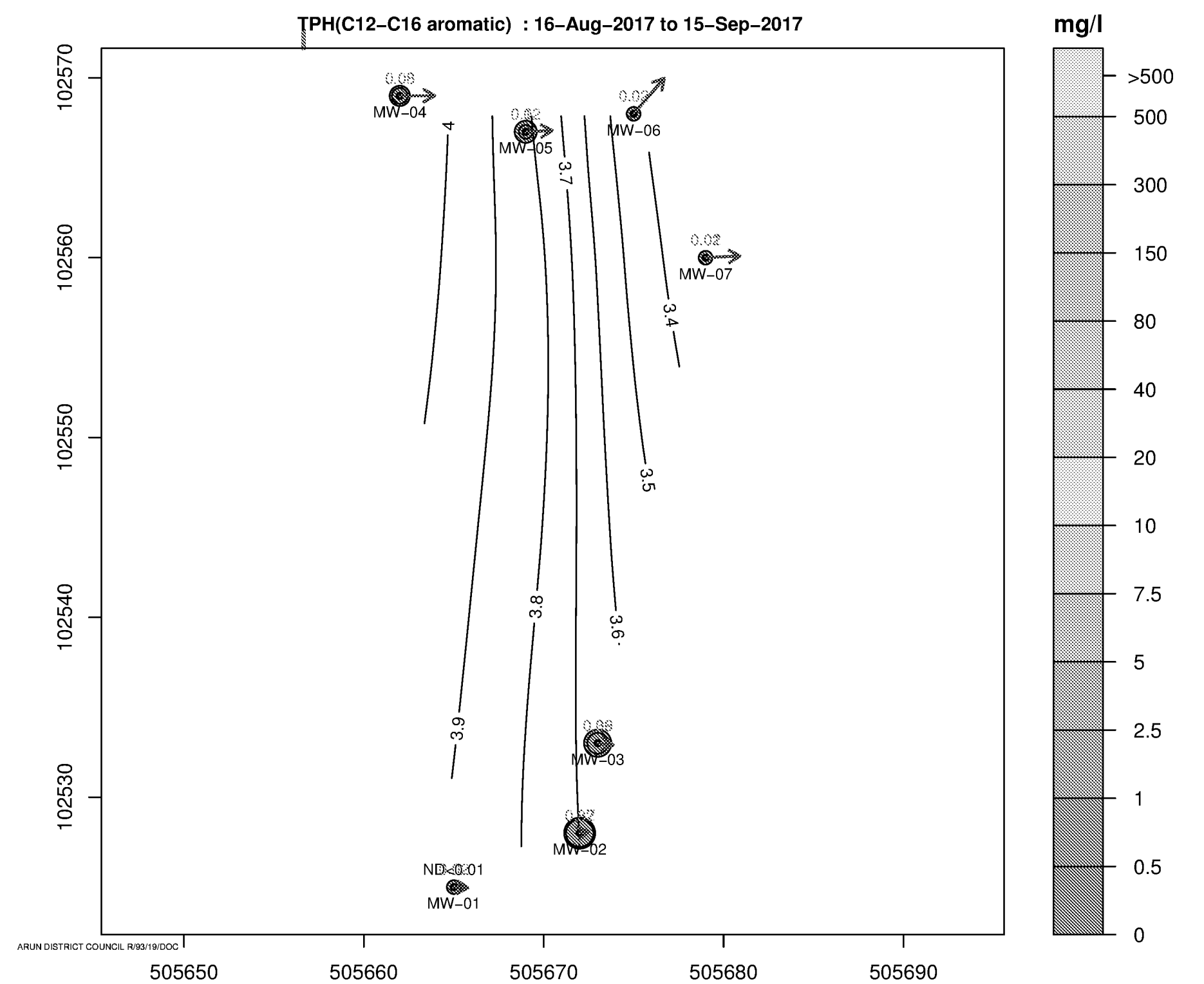
APPENDIX IX

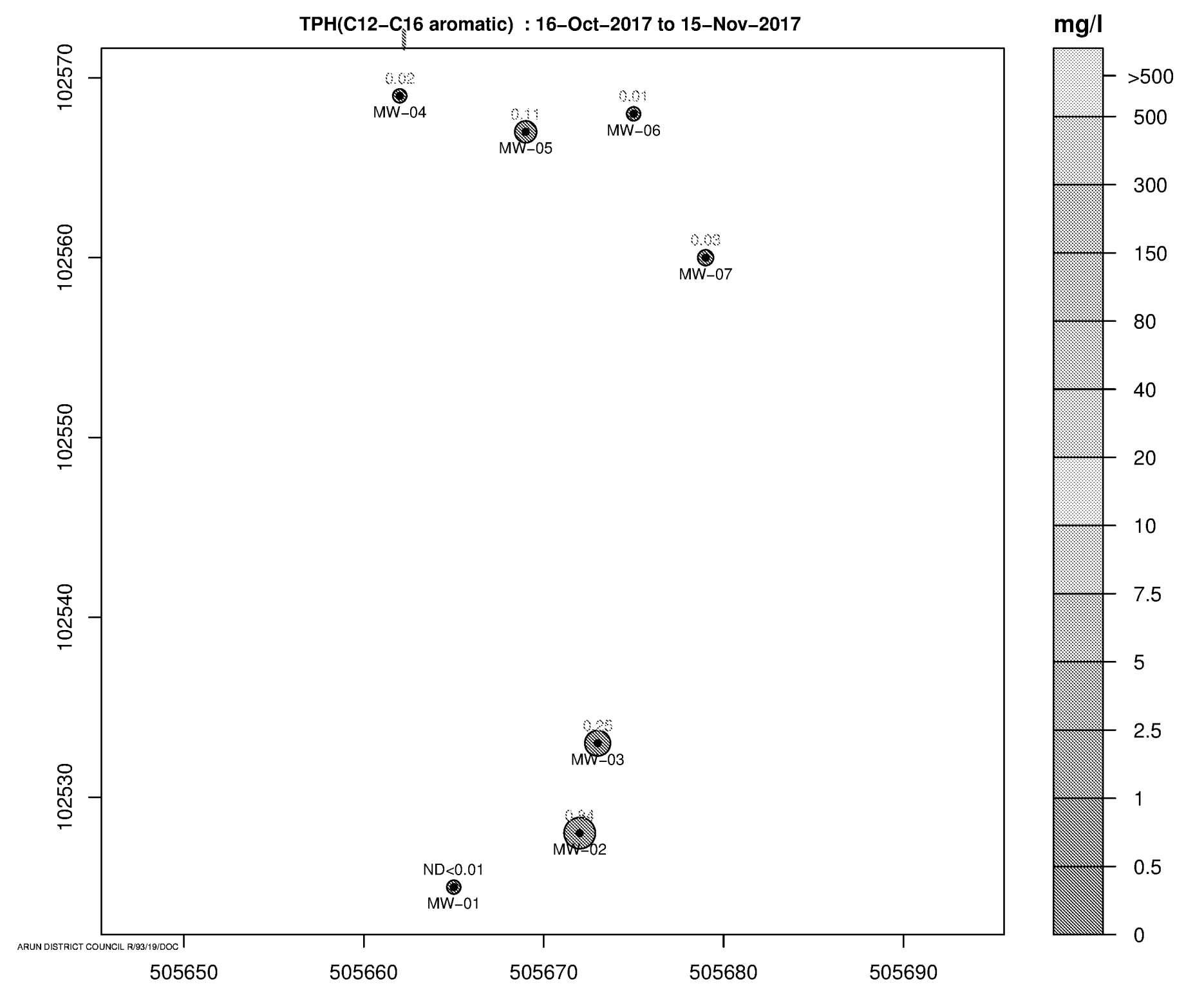
GROUNDWATER CONTOURS & FLOW WITH TPH C_{12}-C_{16} CONCENTRATIONS

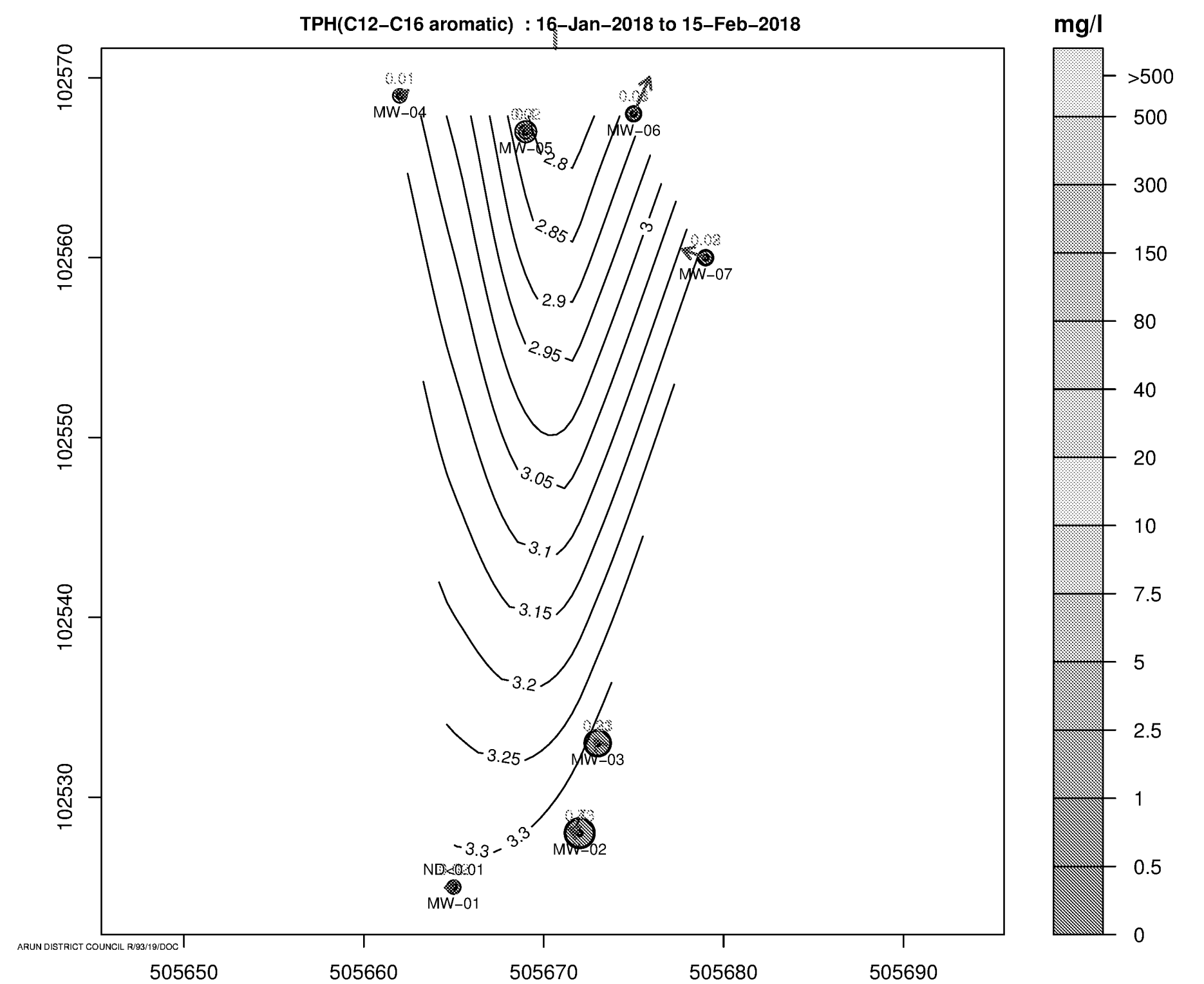

TPH(C12–C16 aromatic) : 16–May–2017 to 15–Jun–2017
mg/l
>500
500
300
150
80
40
20
10
7.5
5
2.5
1
0.5
0
102570
102560
102550
102540
102530
505650
505660
505670
505680
505690
MW–04
MW–05
MW–06
MW–07
MW–03
MW–02
MW–01
0.17
0.1
0.03
0.1
0.16
ND<0.01
4.2
4.4
4.6
4.8
5
3.8
ARUN DISTRICT COUNCIL R/93/19/DOC

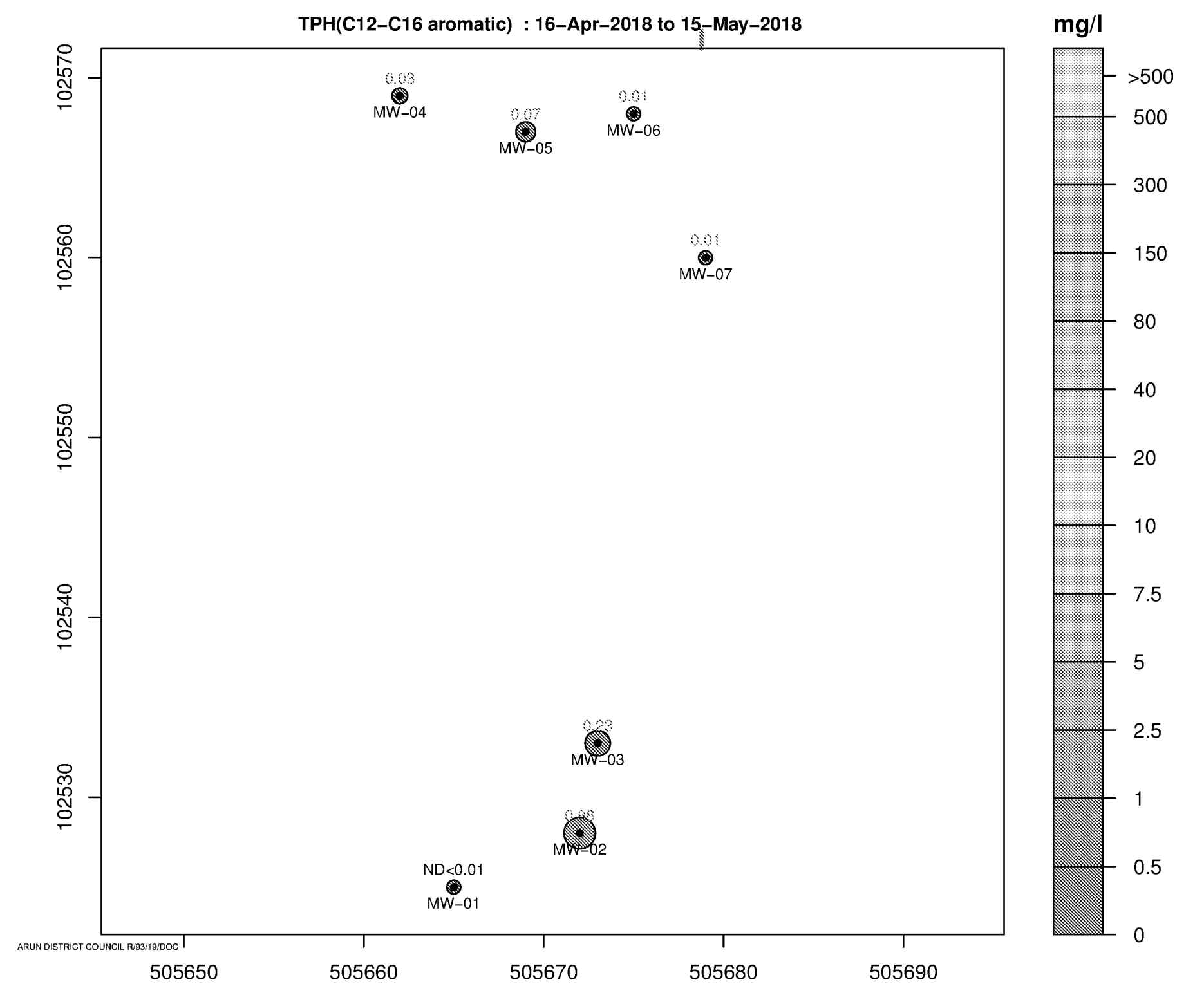

TPH(C12–C16 aromatic) : 16–Jun–2017 to 15–Jul–2017
mg/l
>500
500
300
150
80
40
20
10
7.5
5
2.5
1
0.5
0
MW–04
MW–05
MW–06
MW–07
MW–03
MW–02
MW–01
ND<0.01
3.6
3.7
3.8
3.9
4.1
102570
102560
102550
102540
102530
505650
505660
505670
505680
505690
ARUN DISTRICT COUNCIL R/93/19/DOC

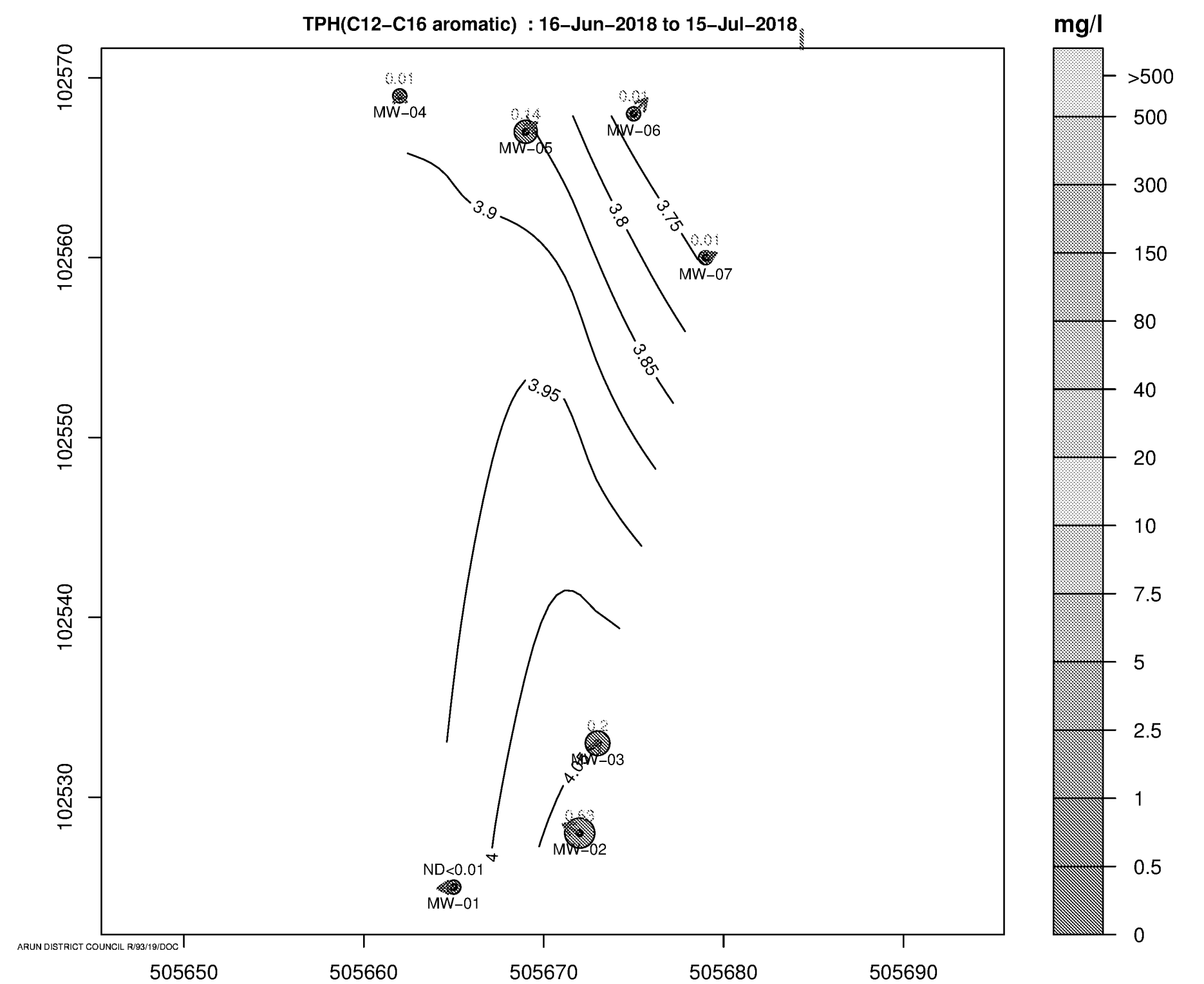

TPH(C12–C16 aromatic) : 16–Jul–2017 to 15–Aug–2017
mg/l
>500
500
300
150
80
40
20
10
7.5
5
2.5
1
0.5
0
MW–04
MW–05
MW–06
MW–07
MW–03
MW–02
MW–01
ND<0.01
ND<0.01
3.7
3.75
3.8
3.85
3.9
3.95
4
102570
102560
102550
102540
102530
505650
505660
505670
505680
505690
ARUN DISTRICT COUNCIL R/93/19/DOC

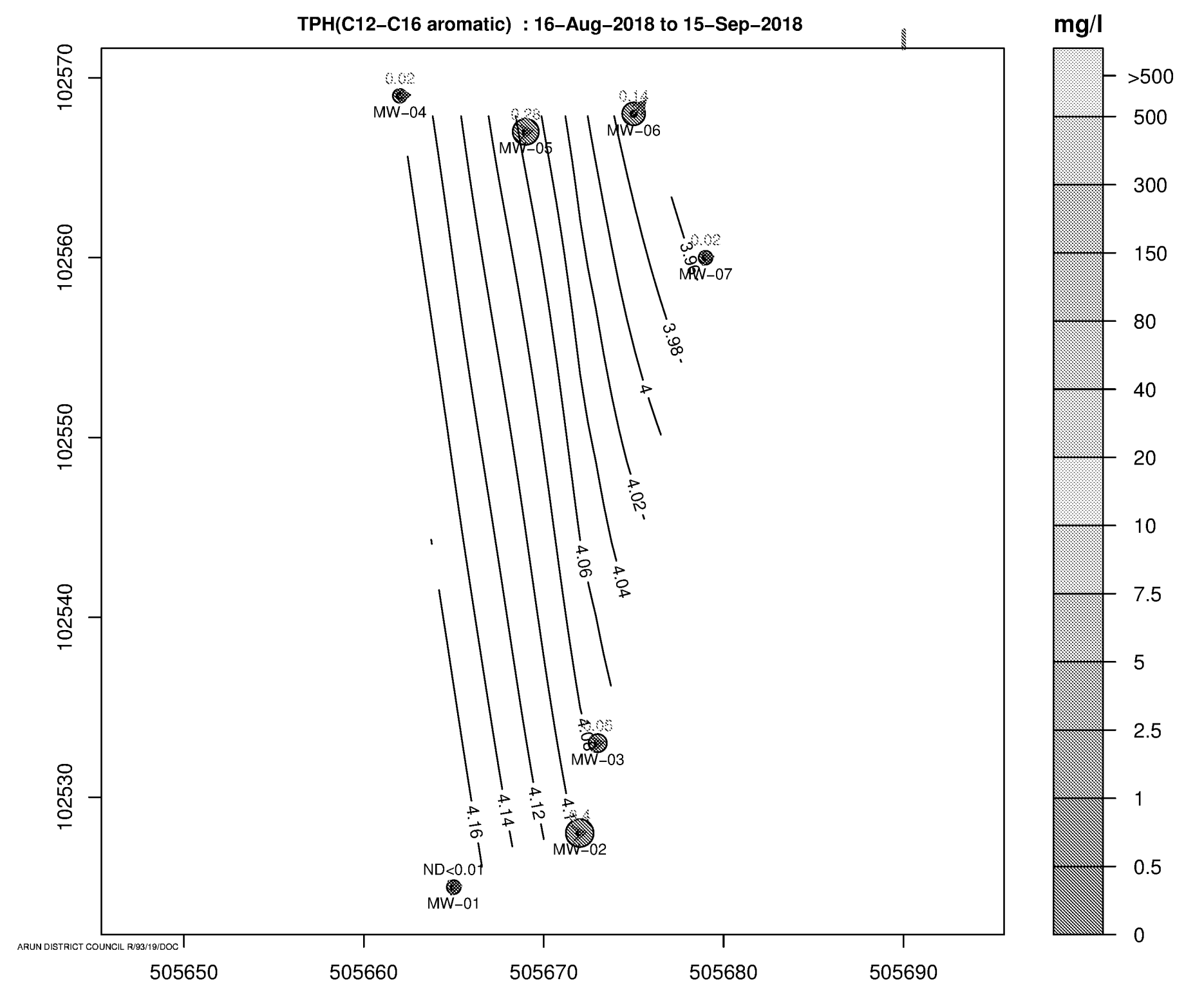

TPH(C12-C16 aromatic) : 16-Aug-2017 to 15-Sep-2017
mg/l
>500
500
300
150
80
40
20
10
7.5
5
2.5
1
0.5
0
MW-04
MW-05
MW-06
MW-07
MW-03
MW-02
MW-01
ND<0.01
4
3.9
3.8
3.7
3.6
3.5
3.4
ARUN DISTRICT COUNCIL R/93/19/DOC
102570
102560
102550
102540
102530
505650
505660
505670
505680
505690

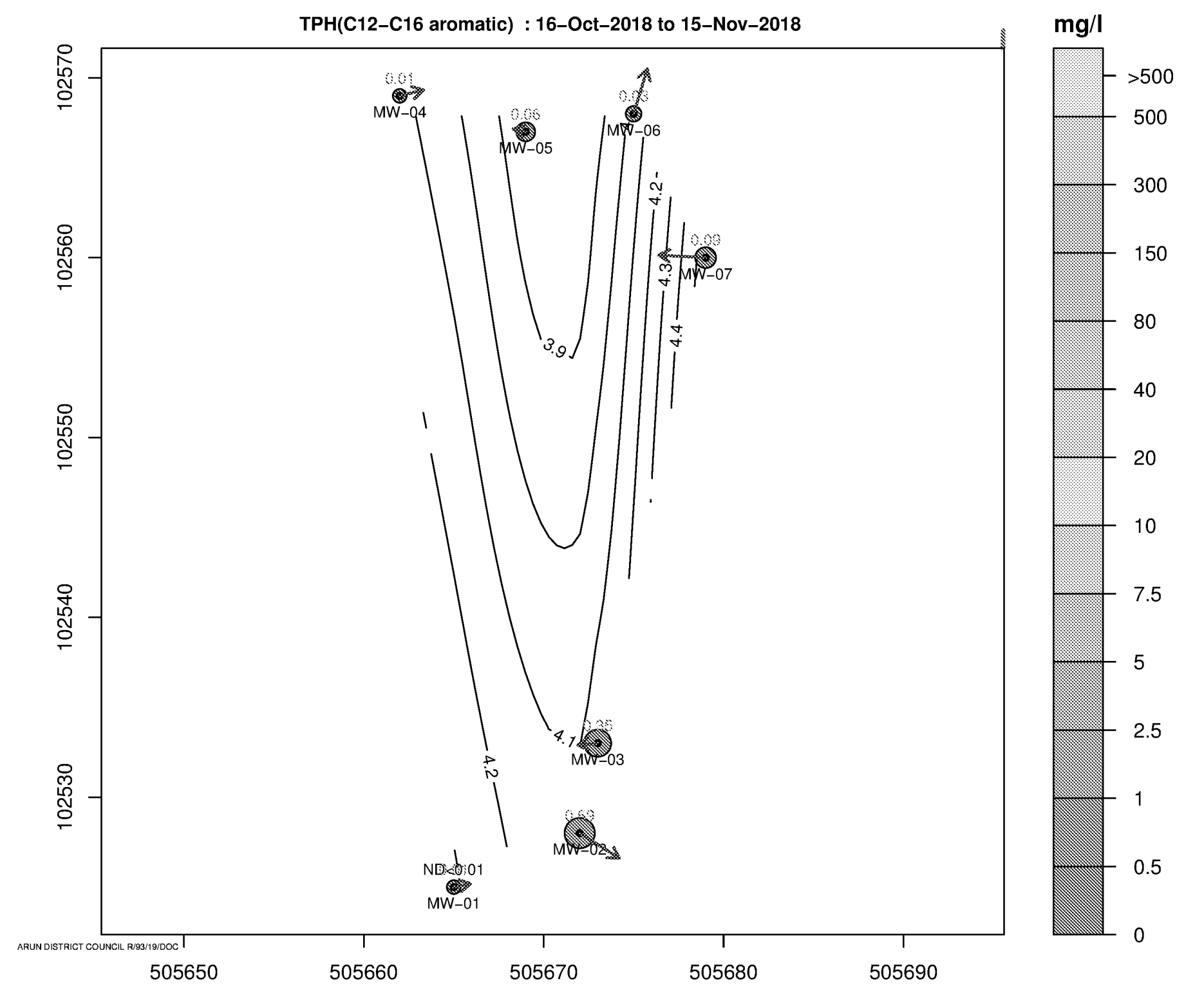

TPH(C12–C16 aromatic) : 16–Oct–2017 to 15–Nov–2017
mg/l
>500
500
300
150
80
40
20
10
7.5
5
2.5
1
0.5
0
0.02
MW–04
0.11
MW–05
0.01
MW–06
0.03
MW–07
0.25
MW–03
0.04
MW–02
ND<0.01
MW–01
102570
102560
102550
102540
102530
505650
505660
505670
505680
505690
ARUN DISTRICT COUNCIL R/93/19/DOC


TPH(C12–C16 aromatic) : 16–Jan–2018 to 15–Feb–2018
mg/l
>500
500
300
150
80
40
20
10
7.5
5
2.5
1
0.5
0
102570
102560
102550
102540
102530
505650
505660
505670
505680
505690
MW–04
0.01
MW–05
MW–06
MW–07
0.03
MW–03
MW–02
ND<0.01
MW–01
2.8
2.85
2.9
2.95
3
3.05
3.1
3.15
3.2
3.25
3.3
3.3
ARUN DISTRICT COUNCIL R/93/19/DOC


TPH(C12–C16 aromatic) : 16–Apr–2018 to 15–May–2018
mg/l
>500
500
300
150
80
40
20
10
7.5
5
2.5
1
0.5
0
0.03
MW–04
0.07
MW–05
0.01
MW–06
0.01
MW–07
0.23
MW–03
0.08
MW–02
ND<0.01
MW–01
102570
102560
102550
102540
102530
505650
505660
505670
505680
505690
ARUN DISTRICT COUNCIL R/93/19/DOC


TPH(C12–C16 aromatic) : 16–Jun–2018 to 15–Jul–2018
mg/l
>500
500
300
150
80
40
20
10
7.5
5
2.5
1
0.5
0
0.01
MW–04
0.14
MW–05
0.01
MW–06
0.01
MW–07
3.9
3.8
3.75
3.85
3.95
4.0
4
0.2
MW–03
0.03
MW–02
ND<0.01
MW–01
102570
102560
102550
102540
102530
505650
505660
505670
505680
505690
ARUN DISTRICT COUNCIL R/93/19/DOC


TPH(C12-C16 aromatic) : 16-Aug-2018 to 15-Sep-2018
mg/l
>500
500
300
150
80
40
20
10
7.5
5
2.5
1
0.5
0
0.02
MW-04
0.26
MW-05
0.14
MW-06
0.02
MW-07
3.98
4
4.02
4.04
4.06
4.08
MW-03
4.12
4.14
4.16
MW-02
ND<0.01
MW-01
102570
102560
102550
102540
102530
505650
505660
505670
505680
505690
ARUN DISTRICT COUNCIL R/93/19/DOC


TPH(C12–C16 aromatic) : 16–Oct–2018 to 15–Nov–2018
mg/l
>500
500
300
150
80
40
20
10
7.5
5
2.5
1
0.5
0
102570
102560
102550
102540
102530
505650
505660
505670
505680
505690
0.01
MW–04
0.05
MW–05
0.08
MW–06
0.09
MW–07
0.05
MW–03
0.03
MW–02
ND<0.01
MW–01
3.9
4.1
4.2
4.2
4.3
4.4
ARUN DISTRICT COUNCIL R/93/19/DOC

APPENDIX X

SOFT LANDSCAPING SOIL IMPORT & DISPOSAL TICKETS

ARUN DISTRICT COUNCIL R/93/19/DOC

Table X.1 Screening of Site Derived Soils using SSAC derived during DQRA

Determinand	GAC (mg/kg)	n	[mc]	TP101 @ 0.50-0.60m	TP102 @ 0.50-0.60m	TP103 @ 0.45-0.55m	TP104 @ 0.50-0.60m	TP105 @ 0.40-0.50m	TP106 @ 0.50-0.60m	Primary Pathway	Assessment
Inorganics											
Arsenic	142	6	11	11	10	10	10	11	10	1	No Further Action
Boron	76,100	6	<1	<1	<1	<1	<1	<1	<1	1,2	
Cadmium	93.7	6	0.2	<0.1	0.1	0.2	0.1	0.2	0.2	1, 2	
Chromium vi	23.2	6	<1	<1	<1	<1	<1	<1	<1	1, 2, 3	
Copper	35,100	6	25	19	21	22	19	25	22	1, 2	
Lead	310	6	44	21	33	43	22	44	41	1, 2	
Mercury	1,280	6	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1	
Nickel	1,200	6	20	20	19	17	15	20	19	1, 2	
Selenium	4,170	6	<3	<3	<3	<3	<3	<3	<3	1, 2	
Zinc	237,000	6	98	58	76	83	74	84	98	1, 2	
Cyanide (Total)	5,280	6	<1	<1	<1	<1	<1	<1	<1	1	
Asbestos	D	6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	3	
Organics - PAHs and Phenol											
Phenols	1,150	6	<1	<1	<1	<1	<1	<1	<1	5	No Further Action
Naphthalene	7.61	6	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	4	
Acenaphthylene	7,640	6	0.2	0.1	<0.1	<0.1	<0.1	<0.1	0.2	1	
Acenaphthene	7,540	6	3.7	<0.1	0.1	<0.1	<0.1	0.1	3.7	1	
Fluorene	6,610	6	4.9	<0.1	0.1	<0.1	<0.1	<0.1	4.9	1	
Phenanthrene	2,610	6	17	0.7	1.7	<0.1	<0.1	0.6	17	1	
Anthracene	62,000	6	5.2	0.3	0.4	<0.1	<0.1	0.3	5.2	1	
Fluoranthene	2,760	6	17	2.9	2.9	<0.1	<0.1	2.4	17	1, 2	
Pyrene	6,620	6	14	2.7	2.4	<0.1	<0.1	2	14	1, 2	
Benzo(a)Anthracene	28.4	6	7.1	1.6	1.1	<0.1	<0.1	1.6	7.1	1	
Chrysene	61.7	6	11	2.4	1.7	<0.1	<0.1	2.7	11	1	
Benzo(b)Fluoranthene	7.87	6	5.4	1.5	0.9	<0.1	<0.1	1.8	5.4	1	

Determinand	GAC (mg/kg)	n	[mc]	TP101 @ 0.50-0.60m	TP102 @ 0.50-0.60m	TP103 @ 0.45-0.55m	TP104 @ 0.50-0.60m	TP105 @ 0.40-0.50m	TP106 @ 0.50-0.60m	Primary Pathway	Assessment
Benzo(k)Fluoranthene	208	6	5.5	1.4	0.9	<0.1	<0.1	1.5	5.5	1	
Benzo(a)Pyrene	6.26	6	6.6	1.7	1.1	<0.1	<0.1	1.7	**6.6**	1	Slight exceedance
Indeno(123-cd)Pyrene	89.2	6	4	1.1	0.6	<0.1	<0.1	1.2	4	1	No Further Action
Dibenzo(a,h) Anthracene	0.623	6	2.3	0.6	0.4	<0.1	<0.1	**0.7**	**2.3**	1	Soils unsuitable
Benzo(ghi)Perylene	696	6	4.5	1.2	0.7	<0.1	<0.1	1.3	4.5	1	No Further Action
Organics – TPHs											
TPH C_5-C_6	Clay: 0.227 Sand: 0.4	6	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	4	No Further Action
TPH C_6-C_8	Clay: 0.265 Sand: 0.467	6	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	4	
TPH C_8-C_{10}	Clay: 8.55 Sand: 13.98	6	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	4	
TPH C_{10}-C_{12}	Clay: 4.105 Sand: 3.13	6	<10*	<2	<2	**<10***	**<10***	<2	**<10***	4	No exceedance anticipated based on other results
TPH C_{12}-C_{16}	Clay: 395 Sand: 270.5	6	12	<2	<2	<10	<10	<2	12	1, 4	No Further Action
TPH C_{16}-C_{21}	Clay: 1,825 Sand: 1,227	6	92	11	12	<10	<10	7	92	1	
TPH C_{21}-C_{35}	Clay: 2,862 Sand: 1,907	6	240	52	44	150	110	59	240	1	

Table X.2 Screening of Imported Toposoil using SSAC derived during DQRA

Determinand	GAC (mg/kg)	n	[mc]	SP1 ES1	SP1 ES2	SP1 ES3	SP2 ES1	SP2 ES2	SP2 ES3	SP3 ES1	SP3 ES2	SP3 ES3	SP4 ES1	SP4 ES2	SP4 ES3	Primary Pathway	Assessment
Inorganics																	
Arsenic	142	12	8	6	6	6	6	6	6	8	7	6	7	7	7	1	No Further Action
Boron	76,100	12	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	1,2	
Cadmium	93.7	12	0.1	0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1, 2	
Chromium vi	23.2	12	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1, 2, 3	
Copper	35,100	12	46	46	20	17	15	17	16	15	21	15	15	17	14	1, 2	
Lead	310	12	23	22	20	20	18	20	20	18	22	17	17	23	22	1, 2	
Mercury	1,280	12	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1	
Nickel	1,200	12	21	18	18	18	17	17	17	20	21	20	18	18	17	1, 2	
Selenium	4,170	12	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	1, 2	
Zinc	237,000	12	71	71	51	51	48	50	48	58	49	46	42	54	41	1, 2	
Cyanide (Total)	5,280	12	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	
Asbestos	D	12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	3	
Organics – PAHs and Phenol																	
Phenols	1,150	12	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5	No Further Action
Naphthalene	7.61	12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	4	
Acenaph-thylene	7,640	12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	1	
Acenaphthene	7,540	12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	1	
Fluorene	6,610	12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	1	
Phenanthrene	2,610	12	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	1	
Anthracene	62,000	12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1		1	
Fluoranthene	2,760	12	0.3	0.3	<0.1	0.1	0.2	0.2	0.2	0.1	<0.3	0.2	0.2	0.2	0.2	1, 2	
Pyrene	6,620	12	0.3	0.3	<0.1	<0.1	0.2	0.2	0.2	0.1	<0.3	0.2	0.2	0.2	0.2	1, 2	
Benzo(a) Anthracene	28.4	12	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	0.1	<0.1	<0.1	<0.1	1	

Determinand	GAC (mg/kg)	n	[Inc]	SP1 ES1	SP1 ES2	SP1 ES3	SP2 ES1	SP2 ES2	SP2 ES3	SP3 ES1	SP3 ES2	SP3 ES3	SP4 ES1	SP4 ES2	SP4 ES3	Primary Pathway	Assessment
Chrysene	61.7	12	0.2	0.2	<0.1	<0.1	<0.1	0.1	0.2	<0.1	<0.3	0.1	<0.1	0.1	0.1	1	
Benzo(b) Fluoranthene	7.87	12	0.2	0.2	<0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.3	0.1	0.1	0.1	0.1	1	
Benzo(k) Fluoranthene	208	12	0.1	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.3	0.1	<0.1	<0.1	<0.1	1	
Benzo(a)Pyrene	6.26	12	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	0.1	<0.1	<0.1	<0.1	1	
Indeno(123-cd)Pyrene	89.2	12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	1	
Dibenzo(a,h) Anthracene	0.623	12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1	<0.1	1	
Benzo(ghi) Perylene	696	12	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	0.1	<0.1	<0.1	<0.1	1	
Organics – TPHs																	
TPH C_5-C_6	Clay: 0.227 Sand: 0.4	12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4	No Further Action
TPH C_6-C_8	Clay: 0.265 Sand: 0.467	12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4	
TPH C_8-C_{10}	Clay: 8.55 Sand: 13.98	12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4	
TPH C_{10}-C_{12}	Clay: 4.105 Sand: 3.13	12	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	4	
TPH C_{12}-C_{16}	Clay: 395 Sand: 270.5	12	12	12	3	<2	6	7	6	5	<10	5	6	10	6	1, 4	
TPH C_{16}-C_{21}	Clay: 1,825 Sand: 1,227	12	41	39	15	11	32	38	34	30	39	32	28	41	26	1	
TPH C_{21}-C_{35}	Clay: 2,862 Sand: 1,907	12	600	250	65	49	180	210	210	270	600	270	190	240	190	1	

Key

[mc]	Maximum Concentration Recorded
D.	Detected
N.D.	None Detected (Limit of Detection = <0.0001%)
*	LOD raised due to dilution of sample

Primary Pathways

1	Ingestion of soil and indoor dust and / or oral background exposure;
2	Consumption of home-grown produce and attached soil;
3	Inhalation of dust (background and indoor);
4	Inhalation of vapour (background and indoor);
5	Direct dermal / skin contact.

DAY AGGREGATES

www.daygroup.co.uk

BULK MATERIALS CONVEYANCE NOTE

DATE	TIME	PROJECT CODE	ORDER CODE	TICKET NUMBER

VEHICLE REG.	HAULIER'S CODE/NAME	DRIVER'S NAME

SIC CODE:

CUSTOMER NAME:

SITE ADDRESS:

NUTS CODE:

ZONE CODE:

INSTRUCTIONS:

CUSTOMER ORDER NO.:

MATERIAL DESCRIPTION:

SOURCE/W.D.P.	U.O.M.	GROSS WEIGHT	TARE WEIGHT	NETT QUANTITY

CASH SALE DETAILS	RATE	NETT	VAT	TOTAL

	TIME ON SITE	TIME OFF SITE	HOURS	MINUTES
THIS BLOCK TO BE USED FOR WAITING TIME OR DAY WORK ONLY	REASON FOR WAITING			
	SIGNED BY		PRINT NAME	

CUSTOMERS ORDERING VEHICLES OFF THE HIGHWAY DO SO ENTIRELY ON THEIR OWN RESPONSIBILITY.

GOODS RECEIVED	SIGNED BY		PRINT NAME	

THIS LOAD IS SOLD SUBJECT TO OUR CONDITIONS OF BUSINESS (AVAILABLE ON REQUEST). DAY AGGREGATES IS A DIVISION OF DAY GROUP LTD. REGISTRATION NO. 432417. VAT REGISTRATION NO. GB 222 5659 55. SIC Number 46730 WASTE CARRIERS LICENCE NO. CBDU116811. WHERE APPLICABLE CE INFORMATION IS AVAILABLE ON REQUEST. EMAIL TECHNICAL@DAYGROUP.CO.UK RECYCLED AGGREGATES PRODUCED BY DAY GROUP ARE MANUFACTURED IN ACCORDANCE WITH WRAP QUALITY PROTOCOL. THE SIGNEE CONFIRMS THAT THE WASTE HIERARCHY HAS BEEN APPLIED AS REQUIRED BY REGULATION 12 OF THE WASTE (ENGLAND & WALES) REGULATIONS 2011.

DISTRIBUTION: WHITE - RETURN TO OFFICE PINK - HAULIER'S COPY GREEN - CUSTOMER

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BULK MATERIALS CONVEYANCE NOTE

DATE	TIME	PROJECT CODE	ORDER CODE	TICKET NUMBER

VEHICLE REG.	HAULIER'S CODE/NAME	DRIVER'S NAME

CUSTOMER NAME: SIC CODE:

SITE ADDRESS:

NUTS CODE: ZONE CODE:

INSTRUCTIONS:

CUSTOMER ORDER No.:

MATERIAL DESCRIPTION:

SOURCE/W.D.P.	U.O.M.	GROSS WEIGHT	TARE WEIGHT	NETT QUANTITY

CASH SALE DETAILS	RATE	NETT	VAT	TOTAL

THIS BLOCK TO BE USED FOR WAITING TIME OR DAY WORK ONLY	TIME ON SITE	TIME OFF SITE	HOURS	MINUTES
	REASON FOR WAITING			
	SIGNED BY		PRINT NAME	

CUSTOMERS ORDERING VEHICLES OFF THE HIGHWAY DO SO ENTIRELY ON THEIR OWN RESPONSIBILITY.

GOODS RECEIVED	SIGNED BY		PRINT NAME	

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BULK MATERIALS CONVEYANCE NOTE

DATE	TIME	PROJECT CODE	ORDER CODE	TICKET NUMBER

VEHICLE REG.	HAULIER'S CODE/NAME	DRIVER'S NAME

CUSTOMER NAME:

SIC CODE:

SITE ADDRESS:

NUTS CODE:

ZONE CODE:

INSTRUCTIONS:

CUSTOMER ORDER No.:

MATERIAL DESCRIPTION:

SOURCE/W.D.P.	U.O.M.	GROSS WEIGHT	TARE WEIGHT	NETT QUANTITY

CASH SALE DETAILS

RATE	NETT	VAT	TOTAL

THIS BLOCK TO BE USED FOR WAITING TIME OR DAY WORK ONLY

TIME ON SITE	TIME OFF SITE	HOURS	MINUTES

REASON FOR WAITING

SIGNED BY

PRINT NAME

CUSTOMERS ORDERING VEHICLES OFF THE HIGHWAY DO SO ENTIRELY ON THEIR OWN RESPONSIBILITY.

GOODS RECEIVED

SIGNED BY

PRINT NAME

THIS LOAD IS SOLD SUBJECT TO OUR CONDITIONS OF BUSINESS (AVAILABLE ON REQUEST). DAY AGGREGATES IS A DIVISION OF DAY GROUP LTD. REGISTRATION NO. 432457. VAT REGISTRATION NO. GB 222 6959 55. SIC Number 46730 WASTE CARRIERS LICENCE NO. CBDU16811 WHERE APPLICABLE OR INFORMATION IS AVAILABLE ON REQUEST. EMAIL: TECHNICAL@DAYGROUP.CO.UK RECYCLED AGGREGATES PRODUCED BY DAY GROUP ARE MANUFACTURED IN ACCORDANCE WITH WRAP QUALITY PROTOCOL. THE SIGNEE CONFIRMS THAT THE WASTE HIERARCHY HAS BEEN APPLIED AS REQUIRED BY REGULATION 12 OF THE WASTE (ENGLAND & WALES) REGULATIONS 2011.

DISTRIBUTION: WHITE - RETURN TO OFFICE PINK - HAULIER'S COPY GREEN - CUSTOMER

THE WOODHORN GROUP

Date: 01/03/2019

Dispatch Note

Bill/Sold To

Day Group Limited
Middlesex
Transport Avenue
Brentford
TW8 9HF

Job Site/Ship To:

Day Group Limited
Hackwood Homes Ltd
Station Road
Rustington
BN16 3BH

Quote No.	Job No.	Salesperson	Manager	Ref
29053	45656	-No Sales Employee-		04/03/414

DESCRIPTION	QTY / UNIT	UNIT PRICE	EXTENDED PRICE
0[illegible]3/2019			
Container 8 Wheel Tipper	1.00 /		
Product Topsoil BS3882 (20MM)	19.00 / Tonnes		

87.48

Company Representative (signature)

Company Registration Number: 3629015

Company VAT Number: 816160744

ARUN DISTRICT COUNCIL R/93/19/DOC

THE WOODHORN GROUP

Date: 01/03/2019
Page: 1

Dispatch Note

RECEIVED
18 MAR 2019

Bill/Sold To

Day Group Limited
Middlesex
Transport Avenue
Brentford
TW8 9HF

Job Site/Ship To:

Day Group Limited
Hackwood Homes Ltd
Station Road
Rustington
BN16 3BH

Quote No.	Job No.	Salesperson	Manager	Ref
29054	45657	-No Sales Employee-		04/03/414

DESCRIPTION	QTY / UNIT	UNIT PRICE	EXTENDED PRICE
04/03/2019			
Container			
8 Wheel Tipper	1.00 /		
Product			
Topsoil BS3882 (20MM)	19.00 / Tonnes		

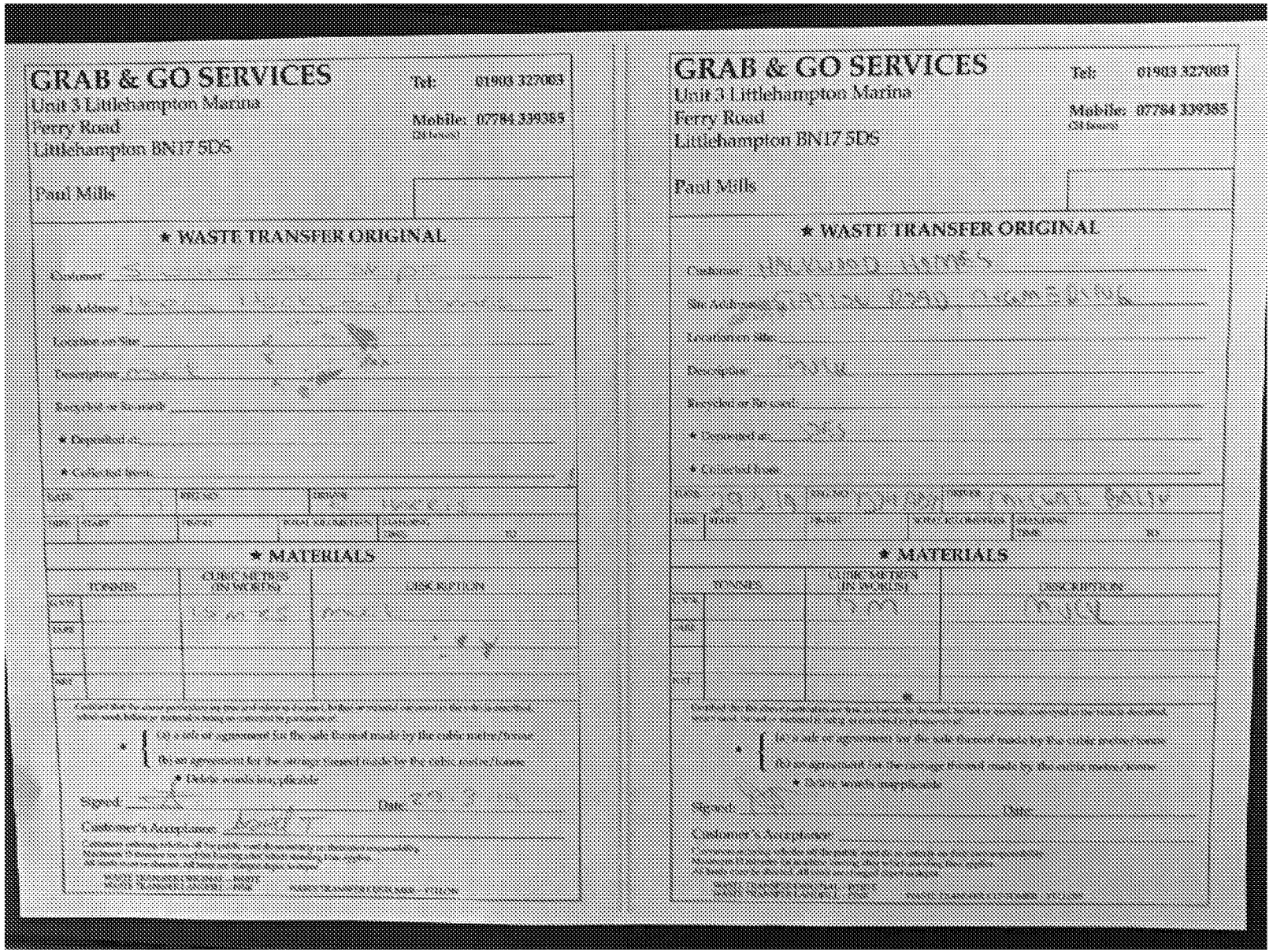
87.48

Company Representative (signature)

Company Registration Number: 3629015

Company VAT Number: 816160744

ARUN DISTRICT COUNCIL R/93/19/DOC



GRAB & GO SERVICES

Unit 3 Littlehampton Marina
Ferry Road
Littlehampton BN17 5DS

Tel: 01903 327083

Mobile: 07784 339385

Paul Mills

★ WASTE TRANSFER ORIGINAL

★ MATERIALS

GRAB & GO SERVICES

Unit 3 Littlehampton Marina
Ferry Road
Littlehampton BN17 5DS

Tel: 01903 327083

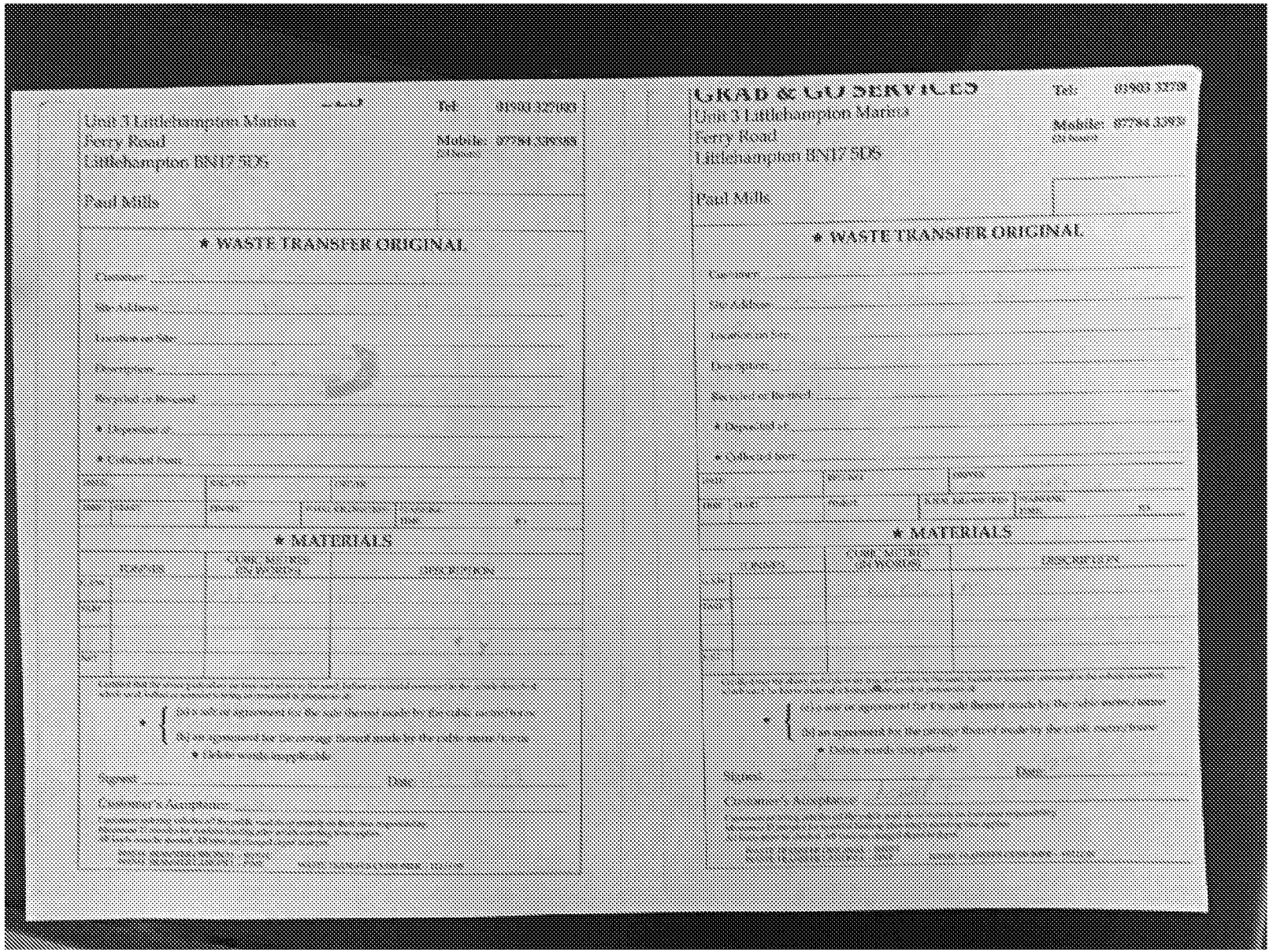
Mobile: 07784 339385

Paul Mills

★ WASTE TRANSFER ORIGINAL

★ MATERIALS

ARUN DISTRICT COUNCIL R/93/19/DOC



Unit 3 Littlehampton Marina
Ferry Road
Littlehampton BN17 5DS

Paul Mills

★ WASTE TRANSFER ORIGINAL

★ MATERIALS

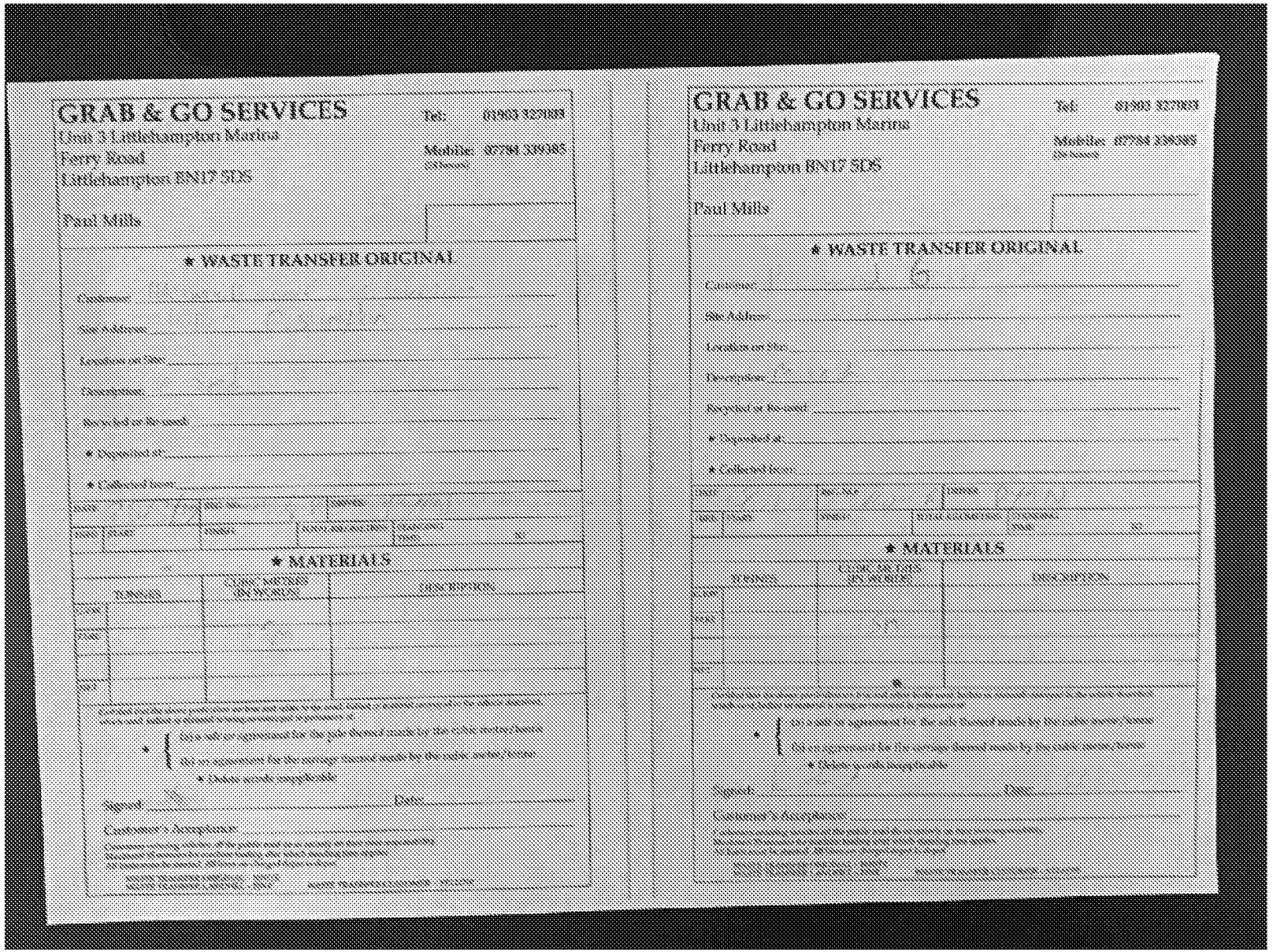
GRAB & GO SERVICES

Unit 3 Littlehampton Marina
Ferry Road
Littlehampton BN17 5DS

Paul Mills

★ WASTE TRANSFER ORIGINAL

★ MATERIALS



GRAB & GO SERVICES
Unit 3 Littlehampton Marina
Ferry Road
Littlehampton BN17 5DS
Tel: 01903 327883
Mobile: 07788 336585

Paul Mills

★ WASTE TRANSFER ORIGINAL

Customer
Site Address
Location on Site
Description
Received or Removed
★ Signature
★ Collected from

★ MATERIALS

Quantity	Cubic Metres (m³) or Weight (Tonnes)	Description

★ I/We will be registered for the safe disposal waste by the waste carriers' license
I/We are registered for the carriage disposal waste by the waste carriers' license
★ Delete as applicable

Signed Date

Customer's Acceptance

GRAB & GO SERVICES
Unit 3 Littlehampton Marina
Ferry Road
Littlehampton BN17 5DS
Tel: 01903 327883
Mobile: 07788 336585

Paul Mills

★ WASTE TRANSFER ORIGINAL

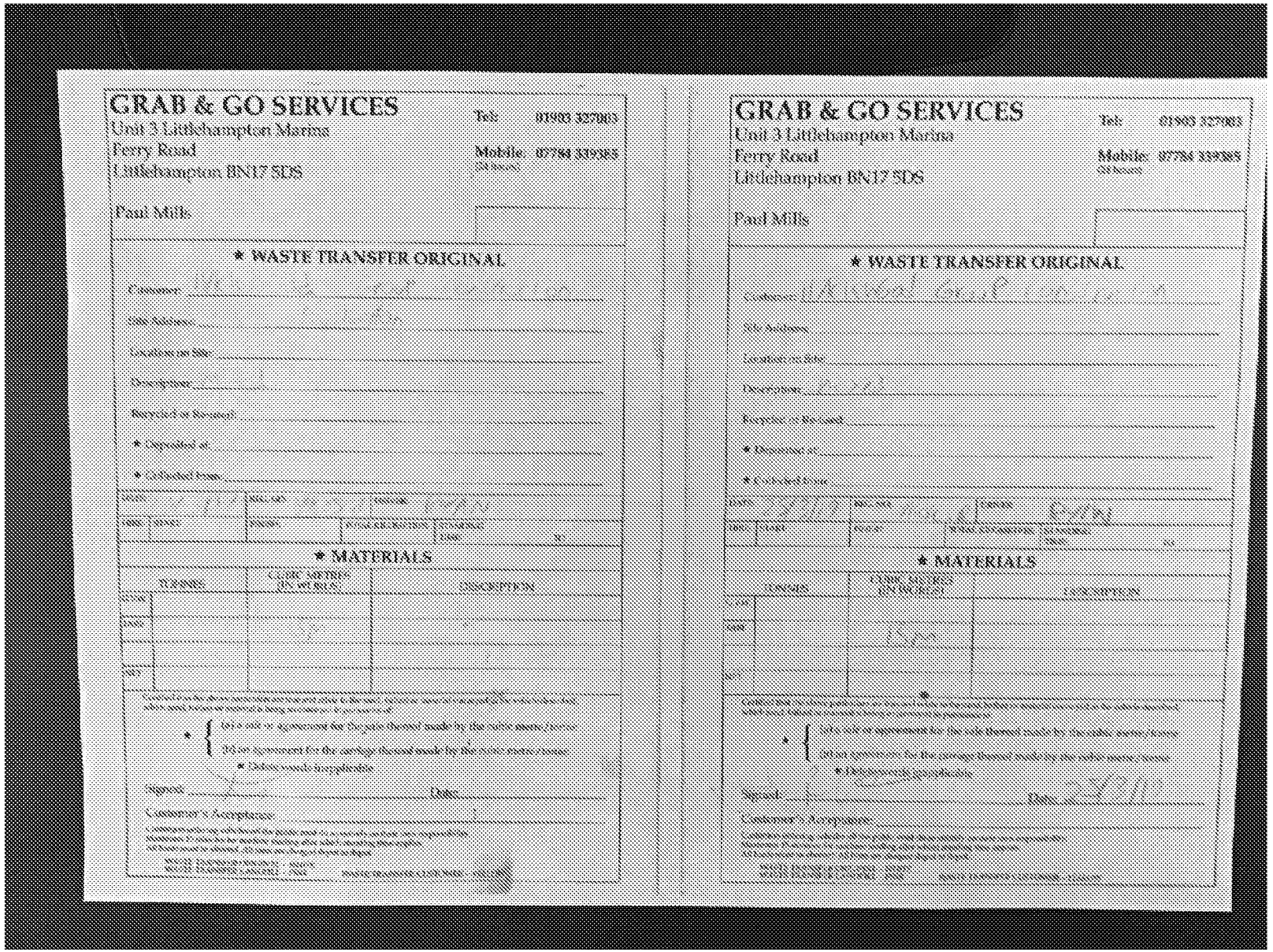
Customer
Site Address
Location on Site
Description
Received or Removed
★ Signature
★ Collected from

★ MATERIALS

Quantity	Cubic Metres (m³) or Weight (Tonnes)	Description

★ I/We will be registered for the safe disposal waste by the waste carriers' license
I/We are registered for the carriage disposal waste by the waste carriers' license
★ Delete as applicable

Signed
Customer's Acceptance



GRAB & GO SERVICES
Unit 3 Littlehampton Marina
Ferry Road
Littlehampton BN17 5DS
Tel: 01903 327803
Mobile: 07784 339385

Paul Mills

★ WASTE TRANSFER ORIGINAL

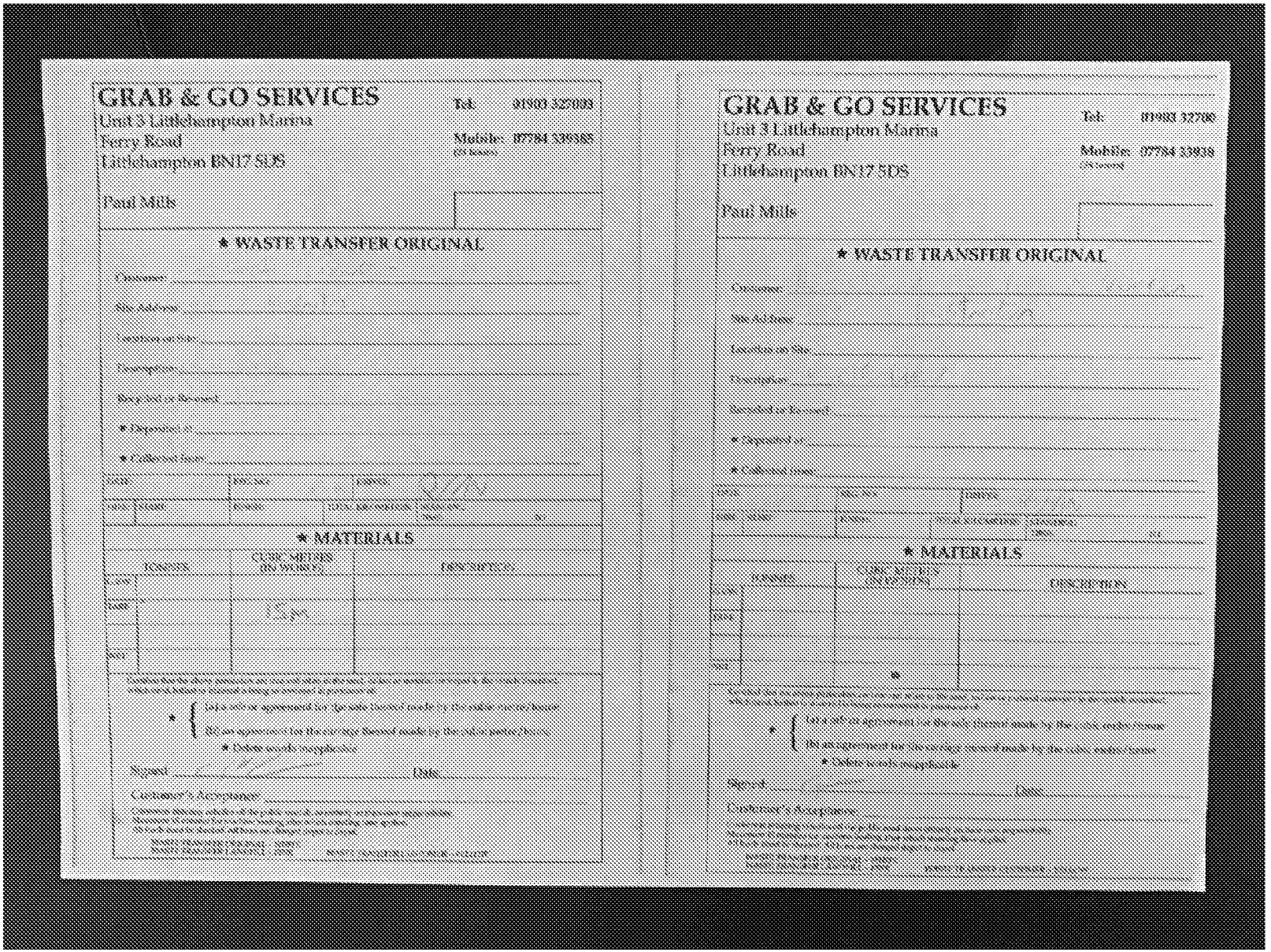
★ MATERIALS

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★ MATERIALS



GRAB & GO SERVICES
Unit 3 Littlehampton Marina
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Tel: 01903 327003
Mobiles: 07784 338585

Paul Mills

★ WASTE TRANSFER ORIGINAL

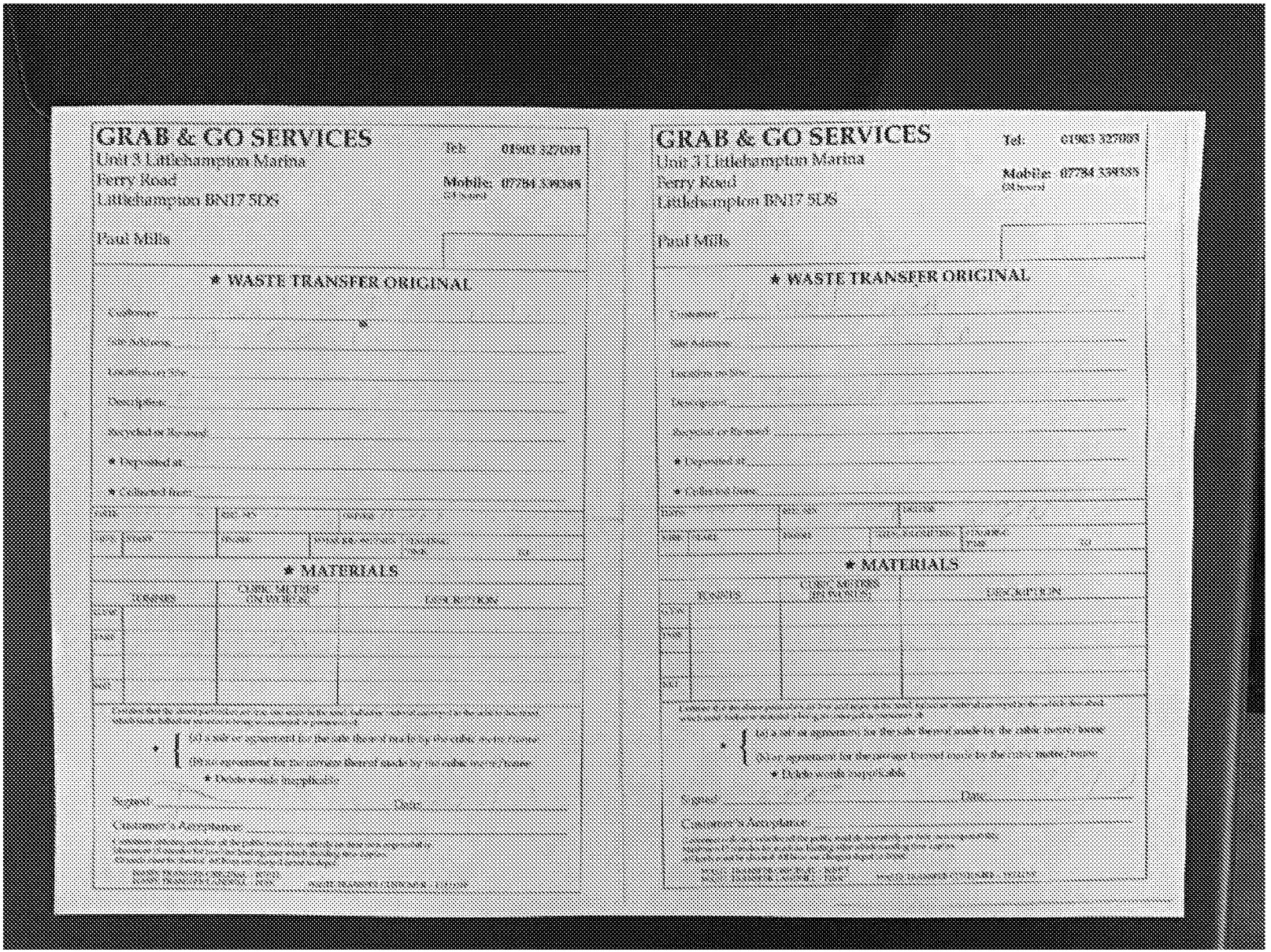
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