Our Ref: EXR/211675 (Ver. 2)
Your Ref: LNO 11202/89

January 18, 2016

Environmental Chemistry
ESG
Bretby Business Park
Ashby Road
Burton-on-Trent
Staffordshire
DE15 0YZ

Telephone: 01283 554400
Facsimile: 01283 554422

Mr M Woodruff
ESG Stockport
Unit 5
Crown Industrial Estate
Kenwood Rd
Reddish
Stockport
SK5 6BH

For the attention of Mr M Woodruff

Dear Mr Woodruff

Sample Analysis - LNO 11202/89

Samples from the above site have been analysed in accordance with the schedule supplied.
The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

Please be aware that our policy for the retention of paper based laboratory records and analysis reports is 6 years.

The work was carried out in accordance with Environmental Scientifics Group Ltd (Multi-Sector Services) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for ESG

J Chislett
Project Co-ordinator
01283 554458

TEST REPORT

1252

Report No. EXR/211675 (Ver. 2)

ESG Stockport
Unit 5
Crown Industrial Estate
Kenwood Rd
Reddish
Stockport
SK5 6BH

Site: LNO 11202/89

The 1 sample described in this report were registered for analysis by ESG on 22-Dec-2015. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 18-Jan-2016

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

On behalf of
ESG :
Declan Burns

Managing Director
Multi-Sector Services

Date of Issue: 18-Jan-2016

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected. ESG accepts no responsibility for any sampling not carried out by our personnel.

Units :			µg/l	mg/l	µg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ng/l	ng/l	ng/l	µg/l	µg/l	µg/l	µg/l	µg/l
Method Codes :			VOCHSAW	ICPMSW	PAHMSW	ICPMSW	OCP	OCP	OCP	OCP	OGSN	OGSN	OGSN	Sub005	Sub005	Sub005	Sub005	Sub005
Method Reporting Limits :			1	0.0001		0.0001	0.02			0.1	20	20	50					
UKAS Accredited :			Yes	Yes	Yes	Yes	No	No	No	No	No	No	No					
LAB ID Number EX/	**Client Sample Description**	**Sample Date**	**VOC HSA-GCMS o**	**Cadmium as Cd (Dissolved)**	**PAH GC-MS (16) o**	**Mercury as Hg (Dissolved)**	**Endosulphans o**	**Hexachlorobenzene**	**Organochlorine Pesticides o**	**Pentachlorobenzene**	**Dibutyl Tin as Sn**	**Tributyl Tin as Sn**	**Triphenyl Tin as Sn**	**^ phenols (alkylphenols test 20)**	**^ polybrominated diphenyl ethers (PBDEs)**	**^4-Nonylphenol**	**^Chloroalkanes**	**^Nonylphenol**
1649671	HSM13702	**18-Dec-15**	Req	<0.0001	Req	0.0001	<0.15	<0.10	Req	<0.10	<40	<40	<100	Req	Req	Req	Req	Req

Bretby Business Park, Ashby Road

Burton-on-Trent, Staffordshire, DE15 0YZ

Tel +44 (0) 1283 554400

Fax +44 (0) 1283 554422

Client Name	**ESG Stockport**
Contact	Mr M Woodruff

LNO 11202/89

Sample Analysis

Date Printed	**18-Jan-2016**
Report Number	**EXR/211675**
Table Number	**1**

		Units :	mg/l
		Method Codes :	SVOCSW
		Method Reporting Limits :	0.002
		UKAS Accredited :	No
LAB ID Number EX/	Client Sample Description	Sample Date	Semi Volatile Organic Compounds
1649671	HSM13702	18-Dec-15	Req

ESG

Bretby Business Park, Ashby Road
Burton-on-Trent, Staffordshire, DE15 0YZ
Tel +44 (0) 1283 554400
Fax +44 (0) 1283 554422

Client Name	ESG Stockport
Contact	Mr M Woodruff

LNO 11202/89

Sample Analysis

Date Printed	18-Jan-2016
Report Number	EXR/211675
Table Number	1

Where individual results are flagged see report notes for status.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	ESG Stockport: LNO 11202/89		
Sample Details:	HSM13702	**Job Number:**	W21_1675
LIMS ID Number:	EX1649671	**Date Booked in:**	22-Dec-15
QC Batch Number:	150878	**Date Extracted:**	29-Dec-15
Quantitation File:	Initial Calibration	**Date Analysed:**	30-Dec-15
Directory:	915PAH.MS10\	**Matrix:**	Water
Dilution:	1.0	**Ext Method:**	Bottle

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	-	< 0.020	-
Acenaphthylene	208-96-8	-	< 0.010	-
Acenaphthene	83-32-9	4.45	0.020	M
Fluorene	86-73-7	-	< 0.010	-
Phenanthrene	85-01-8	-	< 0.010	-
Anthracene	120-12-7	-	< 0.010	-
Fluoranthene	206-44-0	-	< 0.010	-
Pyrene	129-00-0	-	< 0.010	-
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.180	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	103
Acenaphthene-d10	102
Phenanthrene-d10	107
Chrysene-d12	106
Perylene-d12	103

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	84
Terphenyl-d14	75

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Where individual results are flagged see report notes for status.

Semi-Volatile Organic Compounds

UKAS accredited?: No

Customer and Site Details:	ESG Stockport: LNO 11202/89			**Matrix:**	Water	**QC Batch Number:**	274
Sample Details:	HSM13702	**Date Booked in:**	22-Dec-15	**Ext Method:**	Sep. Funnel	**Multiplier:**	0.005
LIMS ID Number:	EX1649671	**Date Extracted:**	30-Dec-15	**Operator:**	JO	**Dilution Factor:**	1
Job Number:	W21_1675	**Date Analysed:**	30-Dec-15	**Directory/Quant File:**	15SVOC.GC11\	**GPC (Y/N)**	N

Target Compounds	CAS #	R.T. (min)	Concentration mg/l	% Fit
Phenol	108-95-2	-	< 0.020	-
bis(2-Chloroethyl)ether	111-44-4	-	< 0.005	-
2-Chlorophenol	95-57-8	-	< 0.020	-
1,3-Dichlorobenzene	541-73-1	-	< 0.005	-
1,4-Dichlorobenzene	106-46-7	-	< 0.005	-
Benzyl alcohol	100-51-6	-	< 0.005	-
1,2-Dichlorobenzene	95-50-1	-	< 0.005	-
2-Methylphenol	95-48-7	-	< 0.005	-
bis(2-Chloroisopropyl)ether	108-60-1	-	< 0.005	-
Hexachloroethane	67-72-1	-	< 0.005	-
N-Nitroso-di-n-propylamine	621-64-7	-	< 0.005	-
3- & 4-Methylphenol	108-39-4/106-44-5	-	< 0.020	-
Nitrobenzene	98-95-3	-	< 0.005	-
Isophorone	78-59-1	-	< 0.005	-
2-Nitrophenol	88-75-5	-	< 0.020	-
2,4-Dimethylphenol	105-67-9	-	< 0.020	-
Benzoic Acid	65-85-0	-	< 0.100	-
bis(2-Chloroethoxy)methane	111-91-1	-	< 0.005	-
2,4-Dichlorophenol	120-83-2	-	< 0.020	-
1,2,4-Trichlorobenzene	120-82-1	-	< 0.005	-
Naphthalene	91-20-3	-	< 0.002	-
4-Chlorophenol	106-48-9	-	< 0.020	-
4-Chloroaniline	106-47-8	-	< 0.005	-
Hexachlorobutadiene	87-68-3	-	< 0.005	-
4-Chloro-3-methylphenol	59-50-7	-	< 0.005	-
2-Methylnaphthalene	91-57-6	-	< 0.002	-
1-Methylnaphthalene	90-12-0	-	< 0.002	-
Hexachlorocyclopentadiene	77-47-4	-	< 0.005	-
2,4,6-Trichlorophenol	88-06-2	-	< 0.020	-
2,4,5-Trichlorophenol	95-95-4	-	< 0.020	-
2-Chloronaphthalene	91-58-7	-	< 0.002	-
Biphenyl	92-52-4	-	< 0.002	-
Diphenyl ether	101-84-8	-	< 0.002	-
2-Nitroaniline	88-74-4	-	< 0.005	-
Acenaphthylene	208-96-8	-	< 0.002	-
Dimethylphthalate	131-11-3	-	< 0.005	-
2,6-Dinitrotoluene	606-20-2	-	< 0.005	-
Acenaphthene	83-32-9	-	< 0.002	-
3-Nitroaniline	99-09-2	-	< 0.005	-

Target Compounds	CAS #	R.T.	Concentration mg/l	% Fit
2,4-Dinitrophenol	51-28-5	-	< 0.010	-
Dibenzofuran	132-64-9	-	< 0.005	-
4-Nitrophenol	100-02-7	-	< 0.050	-
2,4-Dinitrotoluene	121-14-2	-	< 0.005	-
Fluorene	86-73-7	-	< 0.002	-
Diethylphthalate	84-66-2	-	< 0.005	-
4-Chlorophenyl-phenylether	7005-72-3	-	< 0.005	-
4,6-Dinitro-2-methylphenol	534-52-1	-	< 0.050	-
4-Nitroaniline	100-01-6	-	< 0.005	-
N-Nitrosodiphenylamine	86-30-6	-	< 0.005	-
4-Bromophenyl-phenylether	101-55-3	-	< 0.005	-
Hexachlorobenzene	118-74-1	-	< 0.005	-
Pentachlorophenol	87-86-5	-	< 0.050	-
Phenanthrene	85-01-8	-	< 0.002	-
Anthracene	120-12-7	-	< 0.002	-
Di-n-butylphthalate	84-74-2	-	< 0.005	-
Fluoranthene	206-44-0	-	< 0.002	-
Pyrene	129-00-0	-	< 0.002	-
Butylbenzylphthalate	85-68-7	-	< 0.005	-
Benzo[a]anthracene	56-55-3	-	< 0.002	-
Chrysene	218-01-9	-	< 0.002	-
3,3'-Dichlorobenzidine	91-94-1	-	< 0.020	-
bis(2-Ethylhexyl)phthalate	117-81-7	-	< 0.005	-
Di-n-octylphthalate	117-84-0	-	< 0.002	-
Benzo[b]fluoranthene	205-99-2	-	< 0.002	-
Benzo[k]fluoranthene	207-08-9	-	< 0.002	-
Benzo[a]pyrene	50-32-8	-	< 0.002	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.002	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.002	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.002	-
Coronene	191-07-1	-	< 0.050	-

Internal Standards	% Area
1,4-Dichlorobenzene-d4	102
Naphthalene-d8	104
Acenaphthene-d10	108
Phenanthrene-d10	106
Chrysene-d12	121
Perylene-d12	137

Surrogates	% Rec
2-Fluorophenol	39
Phenol-d5	23
Nitrobenzene-d5	72
2-Fluorobiphenyl	82
2,4,6-Tribromophenol	75
Terphenyl-d14	76

Concentrations are reported on a wet weight basis.
"M" denotes that % fit has been manually interpreted

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: Yes

Customer and Site Details:	ESG Stockport: LNO 11202/89	**Directory/Quant file:**	1224VOC.MS8\ Initial Calibration	**Matrix:**	Water
Sample Details:	HSM13702	**Date Booked in:**	22-Dec-15	**Method:**	Headspace
LIMS ID Number:	EX1649671	**Date Analysed:**	24-Dec-15	**Multiplier:**	1
Job Number:	W21_1675	**Operator:**	PR	**Position:**	19

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 1	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-Dibromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5 *	-	< 1	-
Propylbenzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethylbenzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Butylbenzene	98-06-6	-	< 1	-
1,2,4-Trimethylbenzene	95-63-6	-	< 1	-
sec-Butylbenzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Butylbenzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.32	91	Dibromofluoromethane	111
1,4-Difluorobenzene	3.69	88	Toluene-d8	98
Chlorobenzene-d5	4.85	93	Bromofluorobenzene	90
1,4-Dichlorobenzene-d4	5.65	79		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Organochlorine Pesticides by GCMS (SIM)

Customer and Site Details:	ESG Stockport: LNO 11202/89		
Sample Details:	HSM13702	**Job Number:**	W21_1675
LIMS ID Number:	EX1649671	**Date Booked in:**	22-Dec-15
QC Batch Number:	150171	**Date Extracted:**	29-Dec-15
Quantitation File:	1230CCC2.D	**Date Analysed:**	30-Dec-15
Directory:	\123015.MS9\	**Matrix:**	Water
Dilution:	5	**Ext Method:**	Sep. Funnel

UKAS accredited?: No

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
1,3,5-Trichlorobenzene	108-70-3	-	< 0.10	-
1,2,3-Trichlorobenzene	87-61-6	-	< 0.05	-
2,6-Dichlorobenzonitrile	1194-65-6	-	< 0.10	-
1,2,3,4-Tetrachlorobenzene	634-66-2	-	< 0.10	-
Pentachlorobenzene	608-93-5	-	< 0.10	-
Tecnazene	117-18-0	-	< 0.05	-
Trifluralin	1582-09-8	-	< 0.10	-
Alpha-HCH	319-84-6	-	< 0.50	-
Hexachlorobenzene	118-74-1	-	< 0.10	-
Beta-HCH	319-85-7	-	< 0.10	-
Gamma-HCH	58-89-9	-	< 0.10	-
Propyzamide	23950-58-5	-	< 0.10	-
Chlorthalonil	1897-45-6	-	< 0.05	-
Triallate	2303-17-5	-	< 0.10	-
Delta-HCH	319-86-8	-	< 0.05	-
Heptachlor	76-44-8	-	< 0.05	-
Aldrin	309-00-2	-	< 0.10	-
Triadimefon	43121-43-3	-	< 0.10	-
Pendimethalin	40487-42-1	-	< 0.10	-
Heptachlorepoxide	1024-57-3	-	< 0.10	-
Trans-Chlordane	5103-74-2	-	< 0.05	-
Isodrin	465-73-6	-	< 0.10	-
O,P'-DDE	3424-82-6	-	< 0.10	-
Cis-Chlordane	5103-71-9	-	< 0.10	-
Endosulfan I	959-98-8	-	< 0.05	-
P,P'-DDE	72-55-9	-	< 0.05	-
Dieldrin	60-57-1	-	< 0.05	-
O,P'-DDD	53-19-0	-	< 0.05	-
Endrin	72-20-8	-	< 0.05	-
Endosulfan II	33213-65-9	-	< 0.05	-
P,P'-DDD	72-54-8	-	< 0.05	-
O,P'-DDT	789-02-6	-	< 0.05	-
Endosulfan Sulfate	1031-07-8	-	< 0.05	-
P,P'-DDT	50-29-3	-	< 0.10	-
Endrin Ketone	53494-70-5	-	< 0.10	-
Methoxychlor	72-43-5	-	< 0.05	-
Cis-Permethrin	52645-53-1	-	< 0.05	-
Trans-Permethrin	51877-74-8	-	< 0.05	-

Internal Standards	% Area
Naphthalene-d8	68
Phenanthrene-d10	121
Perylene-d12	104

Surrogates	% Rec
Gamma-HCH-d6	D
P,P'-DDT-d8	120

Where individual results are flagged see report notes for status.

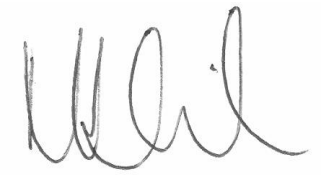
2 Shaftesbury Industrial Centre, Icknield Way, Letchworth Garden City, Hertfordshire, SG6 1HE
T +44 (0)1462 480 400, **F** +44 (0)1462 480 403, **E** rpsmh@rpsgroup.com, **W** rpsgroup.com

Certificate of Analysis

Report No.: 15-49368-1

Issue No.: **1**
Date of Issue **15/01/2016**

Customer Details:	ESG Environmental Chemistry, P O Box 100, Bretby Business Park, Burton-on-Trent, Staffordshire, DE15 0XD
Customer Contact:	Jonathan Chandler
Customer Order No.:	42062 bec
Customer Reference:	W211675
Quotation Reference:	151224/02
Description:	1 water sample
Date Received:	24/12/2015
Date Started:	05/01/2016
Date Completed:	14/01/2016
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None



Approved By: **Matthew Hickson, Laboratory Manager**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.
Observations and interpretations are outside of the scope of UKAS accreditation.
Results reported herein relate only to the items supplied to the laboratory for testing.

2 Shaftesbury Industrial Centre, Icknield Way, Letchworth Garden City, Hertfordshire, SG6 1HE
T +44 (0)1462 480 400, **F** +44 (0)1462 480 403, **E** rpsmh@rpsgroup.com, **W** rpsgroup.com

Results Summary

Report No.: 15-49368-1

Customer Reference: W211675

Customer Order No: 42062 bec

Customer Sample No	**w1649671**
Customer Sample ID	hsm13702
RPS Sample No	285034
Sample Type	**WATER**
Sampling Date	18/12/2015

Determinand	CAS No	Codes	SOP	Units	RL	
2,3,5-trimethylphenol	697-82-5		in house	ug/l	0.02	< 0.50
2,3,6-trimethylphenol	2416-94-6		in house	ug/l	0.02	< 0.50
2,4-di-tert-butylphenol	96-76-4		in house	ug/l	0.02	< 0.50
2,4-xylenol (2,4-dimethylphenol)	105-67-9		in house	ug/l	0.02	< 0.02
2,5-xylenol (2,5-dimethylphenol)	95-87-4		in house	ug/l	0.02	< 0.50
2,6-di-tert-butyl-4-methylphenol	128-37-0		in house	ug/l	0.02	< 0.50
2,6-diisopropylphenol	2078-54-8		in house	ug/l	0.02	< 0.50
2,6-di-sec-butylphenol	5510-99-6		in house	ug/l	0.02	< 0.50
2,6-di-tert-butylphenol	128-39-2		in house	ug/l	0.02	< 0.50
2-n-propylphenol	644-35-9		in house	ug/l	0.02	< 0.50
2-tert-butyl-4-methylphenol	2409-55-4		in house	ug/l	0.02	< 0.50
2-tert-butylphenol	88-18-6		in house	ug/l	0.02	< 0.50
3,4-xylenol (3,4-dimethylphenol)	95-65-8		in house	ug/l	0.02	< 0.50
3,5-xylenol (3,5-dimethylphenol)	108-68-9		in house	ug/l	0.02	< 0.50
4-ethylphenol	123-07-9		in house	ug/l	0.02	< 0.02
4-nonylphenol	84852-15-3		in house	ug/l	0.05	< 0.50
4-n-butylphenol	1638-22-8		in house	ug/l	0.02	< 0.02
4-n-heptylphenol	1987-50-4		in house	ug/l	0.02	< 0.02
4-n-nonylphenol	104-40-5		in house	ug/l	0.02	< 0.02
4-n-octylphenol	1806-26-4		in house	ug/l	0.02	< 0.02
4-n-pentylphenol	14938-35-3		in house	ug/l	0.02	< 0.02
4-n-propylphenol	645-56-7		in house	ug/l	0.02	< 0.02
4-tert-butyl-2-methylphenol	98-27-1		in house	ug/l	0.02	< 0.50
4-tert-butylphenol	98-54-4		in house	ug/l	0.02	< 0.50
4-tert-octylphenol	140-66-9		in house	ug/l	0.02	< 0.02
2,2',4,4',6-pentabromodiphenyl ether (BDE-100)	189084-64-8		in house	ug/l	0.1	< 0.10
2,2',3,4,4',5'-hexabromodiphenyl ether (BDE-138)	182677-30-1		in house	ug/l	0.1	< 0.10
2,2',4,4',5,5'-hexabromodiphenyl ether (BDE-153)	68631-49-2		in house	ug/l	0.1	< 0.10
2,2',4,4',5,6'-hexabromodiphenyl ether (BDE-154)	207122-15-4		in house	ug/l	0.1	< 0.10
2,4,4'-tribromodiphenyl ether (BDE-28)	41318-75-6		in house	ug/l	0.1	< 0.10
2,2',4,4'-tetrabromodiphenyl ether (BDE-47)	5436-43-1		in house	ug/l	0.1	< 0.10
2,3',4,4'-tetrabromodiphenyl ether (BDE-66)	187084-61-5		in house	ug/l	0.1	< 0.10
2,2',3,4,4'-pentabromodiphenyl ether (BDE-85)	182346-21-0		in house	ug/l	0.1	< 0.10
2,2',4,4',5-pentabromodiphenyl ether (BDE-99)	60348-60-9		in house	ug/l	0.1	< 0.10

2 Shaftesbury Industrial Centre, Icknield Way, Letchworth Garden City, Hertfordshire, SG6 1HE
T +44 (0)1462 480 400, **F** +44 (0)1462 480 403, **E** rpsmh@rpsgroup.com, **W** rpsgroup.com

Results Summary

Report No.: 15-49368-1

Customer Reference: W211675

Customer Order No: 42062 bec

Customer Sample No	**w1649671**
Customer Sample ID	hsm13702
RPS Sample No	285034
Sample Type	**WATER**
Sampling Date	18/12/2015

Determinand	CAS No	Codes	SOP	Units	RL	
total alkylphenols, C1-C3			in house	ug/l	0.02	< 0.50
total alkylphenols, C4-C5			in house	ug/l	0.02	< 0.50
total alkylphenols, C6-C9			in house	ug/l	0.02	< 0.50
chloroalkanes (C10-C13)	85535-84-8		in house	ug/l	10	< 10.0
nonylphenol	25154-52-3		in house	ug/l	0.02	0.05
m-cresol (3-methylphenol)	108-39-4		in house	ug/l	0.02	< 0.02
o-cresol (2-methylphenol)	95-48-7		in house	ug/l	0.02	< 0.02
p-cresol (4-methylphenol)	106-44-5		in house	ug/l	0.02	< 0.02

2 Shaftesbury Industrial Centre, Icknield Way, Letchworth Garden City, Hertfordshire, SG6 1HE
T +44 (0)1462 480 400, **F** +44 (0)1462 480 403, **E** rpsmh@rpsgroup.com, **W** rpsgroup.com

Report No.: 15-49368-1
Customer Reference: W211675
Customer Order No: 42062 bec

Comments

RPS Sample Number	Customer Number	Sample Comments
285034	w1649671	A number of target phenol compounds were semi-quantified against the internal standard naphthalene D8 at 0.5ægL, due to some compounds not being present in the calibration mixes used. Those target compounds not present in the standards had their reporting limit raised.

2 Shaftesbury Industrial Centre, Icknield Way, Letchworth Garden City, Hertfordshire, SG6 1HE
T +44 (0)1462 480 400, **F** +44 (0)1462 480 403, **E** rpsmh@rpsgroup.com, **W** rpsgroup.com

Report Information

Key to Report Codes

U	UKAS Accredited
M	MCERTS Accredited
S	Subcontracted to approved laboratory
US	Subcontracted to approved laboratory UKAS Accredited for the test
MS	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SI	Subcontracted to internal RPS Group laboratory
USI	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
MSI	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis

Sample Retention and Disposal

Samples will generally* be retained for the following times prior to disposal:

Perishables, e.g. foodstuffs	1 month (if frozen) from the issue date of this report
Waters	2 weeks from the issue date of this report
Other Liquids	1 month from the issue date of this report
Solids (including Soils)	1 month from the issue date of this report

*Sample retention may be subject to agreement with the customer for particular projects

Sample Analysis

ESG Environmental Chemistry
Analytical and Deviating Sample Overview

W211675

Customer **ESG Stockport**
Site **LNO 11202/89**
Report No **W211675**

Consignment No W97708
Date Logged 22-Dec-2015

Report Due 11-Jan-2016

ID Number	Description	Matrix Type	MethodID / Sampled	CUSTSERV Report A	ICPMSW Cadmium as Cd MS (Dissolved)	ICPMSW Mercury as Hg MS (Dissolved)	OCP Endosulphans	OCP Hexachlorobenzene	OCP Organochlorine Pesticides	OCP Pentachlorobenzene	OGSN Dibutyl Tin	OGSN Tributyl Tin	OGSN Triphenyl Tin	PAHMSW PAH GC-MS (16)	Sub005 ^ phenols (alkylphenols test 20)	Sub005 ^ polybrominated diphenyl ethers (PBDEs)	Sub005 ^4-Nonylphenol	Sub005 ^Chloroalkanes	Sub005 ^Nonylphenol	SVOCSW SVOC	VOCHSAW VOC HSA-GCMS
					✓	✓								✓							✓
EX/1649671	HSM13702	Trade Effluent	18/12/15																		

Note: For analysis where the scheduled turnaround is greater than the holding time we will do our utmost to prioritise these samples. However, it is possible that samples could become deviant whilst being processed in the laboratory.

In this instance please contact the laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time

Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - **Note: due date may be affected if triggered**
	No analysis scheduled
^	Analysis Subcontracted - **Note: due date may vary**

Where individual results are flagged see report notes for status.

Report Number : W/EXR/211675

Additional Report Notes

Method Code	Sample ID	The following information should be taken into consideration when using the data contained within this report
OCP	EX1649671	The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted to improve the signal to noise ratio but in doing so, the detection limit for this test has been elevated.
OGSN	EX1649671	The matrix of this sample has been found to interfere with the result for this test. The sample has therefore been diluted to improve the signal to noise ratio but in doing so, the detection limit for this test has been elevated.

Where individual results are flagged see report notes for status.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Water	ICPMSW	As Received	Direct quantitative determination of Metals in water samples using ICPMS
Water	OCP	As Received	Determination of Organo Chlorine Pesticides by dichloromethane/acetone extraction and GCMS detection
Water	OGSN	As Received	Hexane extraction, sodium tetraethylborate derivitisation and GC-MS quantitation
Water	PAHMSW	As Received	Determination of PolyAromatic Hydrocarbons in water by pentane extraction GCMS quantitation
Water	SubCon*	*	Contact Laboratory for details of the methodology used by the sub-contractor.
Water	SVOCSW	As Received	Determination of Semi Volatile Organic Compounds (SVOC) by DCM extraction followed by GCMS detection
Water	VOCHSAW	As Received	Determination of Volatile Organics Compounds by Headspace GCMS

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,
- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
  All results on MCERTS reports are reported on a 105ºC dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,
- Results are expressed as mg/kg
- SG is expressed as g/cm^3@ 15^{o}C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile **TR** Denotes Tremolite
CR Denotes Crocidolite **AC** Denotes Actinolite
AM Denotes Amosite **AN** Denotes Anthophylite
NAIIS No Asbestos Identified in Sample
NADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.
$$ Unable to analyse due to the nature of the sample
¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols. This may have resulted in deterioration of the sample(s) during transit to the laboratory. Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling
¥ Results for guidance only due to possible interference
& Blank corrected result
I.S Insufficient sample to complete requested analysis
I.S(g) Insufficient sample to re-analyse, results for guidance only
Intf Unable to analyse due to interferences
N.D Not determined **N.Det** Not detected
N.F No Flow
NS Information Not Supplied
Req Analysis requested, see attached sheets for results
Þ Raised detection limit due to nature of the sample
***** All accreditation has been removed by the laboratory for this result
‡ MCERTS accreditation has been removed for this result
§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client : ESG Stockport
Site : LNO 11202/89
Report Number : W21_1675

Lab ID Number	Client ID	Description
EX/1649671	HSM13702	Trade Effluent