

**Analytical Services**  
2 Technology Drive,  
Bridgend Science Park,  
Bridgend, CF31 3NA

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[www.stsanalytical.com](http://www.stsanalytical.com)

██████████  
**Telford & Wrekin Council**  
**Lawn Central**  
**Darby House**  
**Telford TF3 4JA**  
**Shropshire**

11 October 2011

**Test Report: BRD/804493/2011**

Dear ██████████

Analysis of your sample(s) submitted on 07 September 2011 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out is included with this report.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)16 5664 7557 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using Severn Trent Services and we look forward to receiving your next samples.

Yours Sincerely,

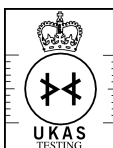
Signed: ██████████

Name: ██████████

Title: Inorganics Operations Manager



# Report Summary



1314  
1229  
0897  
4409



**Telford & Wrekin Council**  
**Lawn Central**  
**Darby House**  
**Telford**  
**Shropshire**  
**TF3 4JA**

Date of Issue: **23 September 2011**

Report Number: **BRD/804493/2011**

Issue **1**

**Job Description:** Stoneyhill Landfill Monitoring

**Job Location:** Stoneyhill Landfill Monitoring

Number of Samples  
included in this report **16**

Job Received: **07 September 2011**

Number of Test Results  
included in this report **1808**

Analysis Commenced: **08 September 2011**

Signed:

[Redacted Signature]

Name:

[Redacted Name]

Date: **23 September 2011**

Title: **Inorganics Operations Manager**

Severn Trent Services was not responsible for sampling unless otherwise stated. Sampling is not covered by our UKAS accreditation.

Information on the methods of analysis and performance characteristics are available on request.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

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## Severn Trent Services

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# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585442**

Sample **1** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	13.5	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.130	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0028	mg/l	Y Cov	WAS049
Calcium , Total as Ca	119	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0610	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.020	mg/l	Y Cov	WAS049
Iron , Total as Fe	10.2	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	2.73	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	8.4	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.031	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.324	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.168	mg/l	Y Cov	WAS049
Potassium , Total as K	693	mg/l	Y Cov	WAS049
Sodium , Total as Na	1550	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.139	mg/l	Y Cov	WAS049
pH	7.8	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	13500	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	4410	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	942	mg/l	Y Cov	WAS036
Chloride as Cl	2540	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Phosphate, Ortho as P	4.03	mg/l	Y Cov	WAS036
Sulphate as SO4	75.6	mg/l	Y Cov	WAS036
Suspended Solids	56.0	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	102	mg/l	Y Cov	WAS001
COD (1 hr settled)	1630	mg/l	Y Cov	WAS040
TOC (Filtered)	346	mg/l	Y Cov	WAS005
Cyanide, Total as CN	<10	ug/l	Y Cov	WAS018

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Issue **1**

Laboratory Number: **12585442**

Sample **1** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.16	mg/l	Y Cov	WAS033
Fluoride as F	1.0	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	25	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	106	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
Aldrin	<8	ng/l	Y Cov	GEO47
alpha-Endosulphan	<8	ng/l	Y Cov	GEO47
alpha-HCH	<6	ng/l	Y Cov	GEO47
beta-Endosulphan	<8	ng/l	Y Cov	GEO47
beta-HCH	<6	ng/l	Y Cov	GEO47
alpha-Chlordane	<4	ng/l	Y Cov	GEO47
Dichlobenil	130	ng/l	Y Cov	GEO47
Dieldrin	<8	ng/l	Y Cov	GEO47
Endrin	<8	ng/l	N Cov	GEO47
gamma-HCH	<6	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	Y Cov	GEO47
Hexachlorobenzene	<4	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<14	ng/l	Y Cov	GEO47
Isodrin	<8	ng/l	Y Cov	GEO47
o,p - DDE	<4	ng/l	Y Cov	GEO47
p,p - DDE	<4	ng/l	Y Cov	GEO47
o,p - TDE	<4	ng/l	Y Cov	GEO47
p,p - TDE	<4	ng/l	Y Cov	GEO47
o,p - DDT	<4	ng/l	Y Cov	GEO47
p,p - DDT	<4	ng/l	Y Cov	GEO47
Tecnazene	<20	ng/l	Y Cov	GEO47
gamma-Chlordane	<8	ng/l	Y Cov	GEO47
Triallate	<20	ng/l	Y Cov	GEO47
Trifluralin	<60	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.008	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.004	ug/l	Y Cov	GEO47
Carbophenothion	<0.006	ug/l	Y Cov	GEO47

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Issue **1**

Laboratory Number: **12585442**

Sample **1** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.004	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.004	ug/l	Y Cov	GEO47
Diazinon	<0.006	ug/l	Y Cov	GEO47
Dichlorvos	<0.004	ug/l	Y Cov	GEO47
Dimethoate	<0.040	ug/l	Y Cov	GEO47
Fenitrothion	<0.004	ug/l	Y Cov	GEO47
Fenthion	<0.004	ug/l	Y Cov	GEO47
Malathion	<0.008	ug/l	Y Cov	GEO47
Mevinphos	<0.040	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.006	ug/l	Y Cov	GEO47
Parathion-methyl	0.008	ug/l	Y Cov	GEO47
Phorate	<0.008	ug/l	Y Cov	GEO47
Phosalone	<0.008	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.010	ug/l	Y Cov	GEO47
Propetamphos	0.014	ug/l	Y Cov	GEO47
Triazophos	<0.004	ug/l	Y Cov	GEO47
Atrazine	<0.040	ug/l	Y Cov	GEO47
Prometryne	<0.040	ug/l	Y Cov	GEO47
Propazine	<0.040	ug/l	Y Cov	GEO47
Simazine	<0.040	ug/l	Y Cov	GEO47
Terbutryn	<0.040	ug/l	Y Cov	GEO47
Trietazine	<0.020	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	<1.0	ug/l	Y Cov	GEO32
Chloromethane	<1.0	ug/l	Y Cov	GEO32

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Issue **1**

Laboratory Number: **12585442**

Sample **1** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<1.0	ug/l	Y Cov	GEO32
Bromomethane	<1.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Dichloromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Chloroform	<1.0	ug/l	Y Cov	GEO32
Bromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
Benzene	1.5	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Trichloroethene	<1.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<1.0	ug/l	Y Cov	GEO32
Dibromomethane	<1.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
Toluene	5.1	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<1.0	ug/l	Y Cov	GEO32
Vinyl Chloride	1.6	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<1.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<1.0	ug/l	Y Cov	GEO32
Chlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
Ethyl Benzene	13.0	ug/l	Y Cov	GEO32
m&p-Xylene	46.3	ug/l	Y Cov	GEO32

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585442**

Sample **1** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	20.9	ug/l	Y Cov	GEO32
Styrene	<1.0	ug/l	Y Cov	GEO32
Bromoform	<1.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Isopropylbenzene	4.7	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<1.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<1.0	ug/l	Y Cov	GEO32
Bromobenzene	<1.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	4.7	ug/l	Y Cov	GEO32
4-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	9.5	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	19.4	ug/l	Y Cov	GEO32
sec-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	9.2	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	5.1	ug/l	Y Cov	GEO32
n-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<2.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<1.0	ug/l	Y Cov	GEO32
Naphthalene	16.3	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
MTBE	<1.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	89.1	%Recovery	N Cov	GEO32
Toluene-d8	97.6	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	101.0	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<4.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	Y Cov	GEO40

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585442**

Sample **1** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<4.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	6.5	ug/l	N Cov	GEO40
Dibenzofuran	<4.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<4.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<4.0	ug/l	Y Cov	GEO40
Hexachloroethane	<4.0	ug/l	Y Cov	GEO40
Nitrobenzene	<4.0	ug/l	Y Cov	GEO40
Isophorone	<4.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<4.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<4.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<4.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<4.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<4.0	ug/l	Y Cov	GEO40
Naphthalene	11.4	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<4.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<4.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<4.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<4.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<4.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<4.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<4.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<4.0	ug/l	Y Cov	GEO40
Acenaphthylene	<4.0	ug/l	Y Cov	GEO40
Acenaphthene	<4.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<4.0	ug/l	Y Cov	GEO40
Diethylphthalate	<4.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<20.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<4.0	ug/l	Y Cov	GEO40

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585442**

Sample **1** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<4.0	ug/l	Y Cov	GEO40
Diphenylamine	<4.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<4.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<4.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<4.0	ug/l	Y Cov	GEO40
Phenanthrene	<4.0	ug/l	Y Cov	GEO40
Anthracene	<4.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<4.0	ug/l	Y Cov	GEO40
Fluoranthene	<4.0	ug/l	Y Cov	GEO40
Pyrene	<4.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<4.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<4.0	ug/l	Y Cov	GEO40
Chrysene	<4.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<20.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<4.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<4.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<4.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<4.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<4.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<4.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<4.0	ug/l	Y Cov	GEO40
2-Fluorophenol	97.1	%Recovery	N Cov	GEO40
Phenol-d6	97.5	%Recovery	N Cov	GEO40
Nitrobenzene-d5	90.3	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	84.3	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	98.0	%Recovery	N Cov	GEO40
Terphenyl-d14	89.2	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.002	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0109	mg/l	Y Cov	WAS051
Methane, Dissolved	6.8	mg/l	N Cov	62

Analyst Comments for 12585442:

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Reporting limits raised for SVOCs due to sample matrix.  
Default.

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed:



Name:



Date: **23 September 2011**

Title:

**Inorganics Operations Manager**

# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585443**

Sample **2** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:40**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	0.748	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.317	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0014	mg/l	Y Cov	WAS049
Calcium , Total as Ca	208	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0050	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.015	mg/l	Y Cov	WAS049
Iron , Total as Fe	12.9	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	<0.19	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	15.1	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.021	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.575	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.003	mg/l	Y Cov	WAS049
Potassium , Total as K	15.7	mg/l	Y Cov	WAS049
Sodium , Total as Na	107	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.070	mg/l	Y Cov	WAS049
pH	7.5	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	1490	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	743	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	4.78	mg/l	Y Cov	WAS036
Chloride as Cl	134	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Phosphate, Ortho as P	<0.08	mg/l	Y Cov	WAS036
Sulphate as SO4	<1.0	mg/l	Y Cov	WAS036
Suspended Solids	75.0	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	16	mg/l	Y Cov	WAS001
COD (1 hr settled)	70	mg/l	Y Cov	WAS040
TOC (Filtered)	21.9	mg/l	Y Cov	WAS005
Cyanide, Total as CN	<10	ug/l	Y Cov	WAS018

## Severn Trent Services

Analytical Services, 2 Technology Drive, Bridgend Science Park, Bridgend, CF31 3NA  
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# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585443**

Sample **2** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:40**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	<0.029	mg/l	Y Cov	WAS033
Fluoride as F	0.4	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
Aldrin	<8	ng/l	Y Cov	GEO47
alpha-Endosulphan	<8	ng/l	Y Cov	GEO47
alpha-HCH	<6	ng/l	Y Cov	GEO47
beta-Endosulphan	<8	ng/l	Y Cov	GEO47
beta-HCH	<6	ng/l	Y Cov	GEO47
alpha-Chlordane	<4	ng/l	Y Cov	GEO47
Dichlobenil	<4	ng/l	Y Cov	GEO47
Dieldrin	<8	ng/l	Y Cov	GEO47
Endrin	<8	ng/l	N Cov	GEO47
gamma-HCH	<6	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	Y Cov	GEO47
Hexachlorobenzene	<4	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<14	ng/l	Y Cov	GEO47
Isodrin	<8	ng/l	Y Cov	GEO47
o,p - DDE	<4	ng/l	Y Cov	GEO47
p,p - DDE	<4	ng/l	Y Cov	GEO47
o,p - TDE	<4	ng/l	Y Cov	GEO47
p,p - TDE	<4	ng/l	Y Cov	GEO47
o,p - DDT	<4	ng/l	Y Cov	GEO47
p,p - DDT	<4	ng/l	Y Cov	GEO47
Tecnazene	<20	ng/l	Y Cov	GEO47
gamma-Chlordane	<8	ng/l	Y Cov	GEO47
Triallate	<20	ng/l	Y Cov	GEO47
Trifluralin	<60	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.008	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.004	ug/l	Y Cov	GEO47
Carbophenothion	<0.006	ug/l	Y Cov	GEO47

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585443**

Sample **2** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:40**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.004	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.004	ug/l	Y Cov	GEO47
Diazinon	<0.006	ug/l	Y Cov	GEO47
Dichlorvos	<0.004	ug/l	Y Cov	GEO47
Dimethoate	<0.040	ug/l	Y Cov	GEO47
Fenitrothion	<0.004	ug/l	Y Cov	GEO47
Fenthion	<0.004	ug/l	Y Cov	GEO47
Malathion	<0.008	ug/l	Y Cov	GEO47
Mevinphos	<0.040	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.006	ug/l	Y Cov	GEO47
Parathion-methyl	<0.006	ug/l	Y Cov	GEO47
Phorate	<0.008	ug/l	Y Cov	GEO47
Phosalone	<0.008	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.010	ug/l	Y Cov	GEO47
Propetamphos	<0.006	ug/l	Y Cov	GEO47
Triazophos	<0.004	ug/l	Y Cov	GEO47
Atrazine	<0.040	ug/l	Y Cov	GEO47
Prometryne	<0.040	ug/l	Y Cov	GEO47
Propazine	<0.040	ug/l	Y Cov	GEO47
Simazine	<0.040	ug/l	Y Cov	GEO47
Terbutryn	<0.040	ug/l	Y Cov	GEO47
Trietazine	<0.020	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	<1.0	ug/l	Y Cov	GEO32
Chloromethane	<1.0	ug/l	Y Cov	GEO32

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585443**

Sample **2** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:40**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<1.0	ug/l	Y Cov	GEO32
Bromomethane	<1.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Dichloromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Chloroform	<1.0	ug/l	Y Cov	GEO32
Bromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
Benzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Trichloroethene	<1.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<1.0	ug/l	Y Cov	GEO32
Dibromomethane	<1.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
Toluene	<1.0	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<1.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<0.5	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<1.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<1.0	ug/l	Y Cov	GEO32
Chlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
Ethyl Benzene	<1.0	ug/l	Y Cov	GEO32
m&p-Xylene	<1.0	ug/l	Y Cov	GEO32

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585443**

Sample **2** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:40**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	<1.0	ug/l	Y Cov	GEO32
Styrene	<1.0	ug/l	Y Cov	GEO32
Bromoform	<1.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<1.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<1.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<1.0	ug/l	Y Cov	GEO32
Bromobenzene	<1.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<1.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	<1.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<1.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<2.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<1.0	ug/l	Y Cov	GEO32
Naphthalene	<1.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
MTBE	<1.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	97.6	%Recovery	N Cov	GEO32
Toluene-d8	100.5	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	98.1	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	15.8	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<2.0	ug/l	Y Cov	GEO40

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585443**

Sample **2** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:40**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<2.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<2.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<2.0	ug/l	Y Cov	GEO40
2-Methylphenol	<2.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	32.4	ug/l	N Cov	GEO40
Dibenzofuran	<2.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<2.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<2.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<2.0	ug/l	Y Cov	GEO40
Hexachloroethane	<2.0	ug/l	Y Cov	GEO40
Nitrobenzene	<2.0	ug/l	Y Cov	GEO40
Isophorone	<2.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<2.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<2.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<2.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<2.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<2.0	ug/l	Y Cov	GEO40
Naphthalene	<4.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<2.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<2.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<2.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<2.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<2.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<2.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<2.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<2.0	ug/l	Y Cov	GEO40
Acenaphthylene	<2.0	ug/l	Y Cov	GEO40
Acenaphthene	<2.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<2.0	ug/l	Y Cov	GEO40
Diethylphthalate	<2.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<10.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<2.0	ug/l	Y Cov	GEO40

## Severn Trent Services

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585443**

Sample **2** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:40**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<2.0	ug/l	Y Cov	GEO40
Diphenylamine	<2.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<2.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<2.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<2.0	ug/l	Y Cov	GEO40
Phenanthrene	<2.0	ug/l	Y Cov	GEO40
Anthracene	<2.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<2.0	ug/l	Y Cov	GEO40
Fluoranthene	<2.0	ug/l	Y Cov	GEO40
Pyrene	<2.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<2.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<2.0	ug/l	Y Cov	GEO40
Chrysene	<2.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<10.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<2.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<2.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<2.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<2.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<2.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<2.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<2.0	ug/l	Y Cov	GEO40
2-Fluorophenol	100.7	%Recovery	N Cov	GEO40
Phenol-d6	92.5	%Recovery	N Cov	GEO40
Nitrobenzene-d5	98.6	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	94.8	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	101.3	%Recovery	N Cov	GEO40
Terphenyl-d14	94.5	%Recovery	N Cov	GEO40
Selenium, Total as Se	<0.001	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0069	mg/l	Y Cov	WAS051
Methane, Dissolved	2.2	mg/l	N Cov	62

Analyst Comments for 12585443:

No Analyst Comment

## Severn Trent Services

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Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella ND analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed:



Name:



Date: **23 September 2011**

Title:

**Inorganics Operations Manager**

# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585444**

Sample **3** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 11:10**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	2.18	mg/l	Y Cov	CON27
Aluminium, Total as Al	3.26	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0018	mg/l	Y Cov	WAS049
Calcium , Total as Ca	144	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0177	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.035	mg/l	Y Cov	WAS049
Iron , Total as Fe	19.2	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	1.35	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	23.3	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.056	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.668	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.092	mg/l	Y Cov	WAS049
Potassium , Total as K	177	mg/l	Y Cov	WAS049
Sodium , Total as Na	575	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.185	mg/l	Y Cov	WAS049
pH	7.5	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	5490	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	2250	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	285	mg/l	Y Cov	WAS036
Chloride as Cl	687	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Phosphate, Ortho as P	0.40	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	5.75	mg/l	Y Cov	CON27
Suspended Solids	3030	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	153	mg/l	Y Cov	WAS001
COD (1 hr settled)	643	mg/l	Y Cov	WAS040
TOC (Filtered)	34.8	mg/l	Y Cov	WAS005
Cyanide, Total as CN	10	ug/l	Y Cov	WAS018

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585444**

Sample **3** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 11:10**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	18.28	mg/l	Y Cov	WAS033
Fluoride as F	0.8	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
Aldrin	<8	ng/l	Y Cov	GEO47
alpha-Endosulphan	<8	ng/l	Y Cov	GEO47
alpha-HCH	43	ng/l	Y Cov	GEO47
beta-Endosulphan	<8	ng/l	Y Cov	GEO47
beta-HCH	<6	ng/l	Y Cov	GEO47
alpha-Chlordane	<4	ng/l	Y Cov	GEO47
Dichlobenil	16	ng/l	Y Cov	GEO47
Dieldrin	<8	ng/l	Y Cov	GEO47
Endrin	<8	ng/l	N Cov	GEO47
gamma-HCH	<6	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	Y Cov	GEO47
Hexachlorobenzene	<4	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<14	ng/l	Y Cov	GEO47
Isodrin	<8	ng/l	Y Cov	GEO47
o,p - DDE	<4	ng/l	Y Cov	GEO47
p,p - DDE	<4	ng/l	Y Cov	GEO47
o,p - TDE	<4	ng/l	Y Cov	GEO47
p,p - TDE	<4	ng/l	Y Cov	GEO47
o,p - DDT	<4	ng/l	Y Cov	GEO47
p,p - DDT	<4	ng/l	Y Cov	GEO47
Tecnazene	<20	ng/l	Y Cov	GEO47
gamma-Chlordane	<8	ng/l	Y Cov	GEO47
Triallate	<20	ng/l	Y Cov	GEO47
Trifluralin	<60	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.008	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.004	ug/l	Y Cov	GEO47
Carbophenothion	<0.006	ug/l	Y Cov	GEO47

## Severn Trent Services

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# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585444**

Sample **3** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 11:10**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.004	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.004	ug/l	Y Cov	GEO47
Diazinon	<0.006	ug/l	Y Cov	GEO47
Dichlorvos	<0.004	ug/l	Y Cov	GEO47
Dimethoate	<0.040	ug/l	Y Cov	GEO47
Fenitrothion	<0.004	ug/l	Y Cov	GEO47
Fenthion	<0.004	ug/l	Y Cov	GEO47
Malathion	<0.008	ug/l	Y Cov	GEO47
Mevinphos	<0.040	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.006	ug/l	Y Cov	GEO47
Parathion-methyl	<0.006	ug/l	Y Cov	GEO47
Phorate	<0.008	ug/l	Y Cov	GEO47
Phosalone	<0.008	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.010	ug/l	Y Cov	GEO47
Propetamphos	<0.006	ug/l	Y Cov	GEO47
Triazophos	<0.004	ug/l	Y Cov	GEO47
Atrazine	<0.040	ug/l	Y Cov	GEO47
Prometryne	<0.040	ug/l	Y Cov	GEO47
Propazine	<0.040	ug/l	Y Cov	GEO47
Simazine	<0.040	ug/l	Y Cov	GEO47
Terbutryn	<0.040	ug/l	Y Cov	GEO47
Trietazine	<0.020	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	<1.0	ug/l	Y Cov	GEO32
Chloromethane	<1.0	ug/l	Y Cov	GEO32

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585444**

Sample **3** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 11:10**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<1.0	ug/l	Y Cov	GEO32
Bromomethane	<1.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Dichloromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Chloroform	<1.0	ug/l	Y Cov	GEO32
Bromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
Benzene	1.3	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Trichloroethene	<1.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<1.0	ug/l	Y Cov	GEO32
Dibromomethane	<1.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
Toluene	2.5	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<1.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<0.5	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<1.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<1.0	ug/l	Y Cov	GEO32
Chlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
Ethyl Benzene	7.1	ug/l	Y Cov	GEO32
m&p-Xylene	9.3	ug/l	Y Cov	GEO32

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585444**

Sample **3** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 11:10**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	3.2	ug/l	Y Cov	GEO32
Styrene	<1.0	ug/l	Y Cov	GEO32
Bromoform	<1.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Isopropylbenzene	1.2	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<1.0	ug/l	Y Cov	GEO32
n-Propylbenzene	1.3	ug/l	Y Cov	GEO32
Bromobenzene	<1.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	1.2	ug/l	Y Cov	GEO32
4-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	1.9	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	10.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	1.9	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<2.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<1.0	ug/l	Y Cov	GEO32
Naphthalene	1.8	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
MTBE	<1.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	100.7	%Recovery	N Cov	GEO32
Toluene-d8	101.0	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	101.6	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<10.0	ug/l	Y Cov	GEO40

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585444**

Sample **3** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 11:10**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<10.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
2-Methylphenol	<10.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	<10.0	ug/l	N Cov	GEO40
Dibenzofuran	<10.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<10.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<10.0	ug/l	Y Cov	GEO40
Hexachloroethane	<10.0	ug/l	Y Cov	GEO40
Nitrobenzene	<10.0	ug/l	Y Cov	GEO40
Isophorone	<10.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<10.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<10.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<10.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Naphthalene	<20.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<10.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<10.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<10.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<10.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<10.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Acenaphthylene	<10.0	ug/l	Y Cov	GEO40
Acenaphthene	<10.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Diethylphthalate	<10.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<50.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<10.0	ug/l	Y Cov	GEO40

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585444**

Sample **3** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 11:10**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<10.0	ug/l	Y Cov	GEO40
Diphenylamine	<10.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<10.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<10.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<10.0	ug/l	Y Cov	GEO40
Phenanthrene	<10.0	ug/l	Y Cov	GEO40
Anthracene	<10.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<10.0	ug/l	Y Cov	GEO40
Fluoranthene	<10.0	ug/l	Y Cov	GEO40
Pyrene	<10.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<10.0	ug/l	Y Cov	GEO40
Chrysene	<10.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<50.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<10.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<10.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<10.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<10.0	ug/l	Y Cov	GEO40
2-Fluorophenol	97.8	%Recovery	N Cov	GEO40
Phenol-d6	91.9	%Recovery	N Cov	GEO40
Nitrobenzene-d5	97.6	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	94.0	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	102.4	%Recovery	N Cov	GEO40
Terphenyl-d14	94.6	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.004	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0696	mg/l	Y Cov	WAS051
Methane, Dissolved	6.3	mg/l	N Cov	62

Analyst Comments for 12585444:

## Severn Trent Services

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Reporting limits raised for SVOCs due to sample matrix.  
Sulphate analysed by ion chromatography due to interference with turbidimetric determination

Default.

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed:



Name:



Date: **23 September 2011**

Title:

**Inorganics Operations Manager**

# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585445**

Sample **4** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 12:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	1.09	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.130	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0014	mg/l	Y Cov	WAS049
Calcium , Total as Ca	320	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0116	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.072	mg/l	Y Cov	WAS049
Iron , Total as Fe	3.61	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	0.95	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	5.9	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.022	mg/l	Y Cov	WAS049
Manganese , Total as Mn	1.45	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.016	mg/l	Y Cov	WAS049
Potassium , Total as K	77.9	mg/l	Y Cov	WAS049
Sodium , Total as Na	185	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.085	mg/l	Y Cov	WAS049
pH	7.2	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	2890	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	1520	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	83.6	mg/l	Y Cov	WAS036
Chloride as Cl	244	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Phosphate, Ortho as P	<0.08	mg/l	Y Cov	WAS036
Sulphate as SO4	57.0	mg/l	Y Cov	WAS036
Suspended Solids	80.0	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	16	mg/l	Y Cov	WAS001
COD (1 hr settled)	182	mg/l	Y Cov	WAS040
TOC (Filtered)	51.6	mg/l	Y Cov	WAS005
Cyanide, Total as CN	<10	ug/l	Y Cov	WAS018

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585445**

Sample **4** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 12:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.08	mg/l	Y Cov	WAS033
Fluoride as F	0.4	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	41	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
Aldrin	<8	ng/l	Y Cov	GEO47
alpha-Endosulphan	<8	ng/l	Y Cov	GEO47
alpha-HCH	<6	ng/l	Y Cov	GEO47
beta-Endosulphan	<8	ng/l	Y Cov	GEO47
beta-HCH	<6	ng/l	Y Cov	GEO47
alpha-Chlordane	<4	ng/l	Y Cov	GEO47
Dichlobenil	10	ng/l	Y Cov	GEO47
Dieldrin	<8	ng/l	Y Cov	GEO47
Endrin	<8	ng/l	N Cov	GEO47
gamma-HCH	<6	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	Y Cov	GEO47
Hexachlorobenzene	<4	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<14	ng/l	Y Cov	GEO47
Isodrin	<8	ng/l	Y Cov	GEO47
o,p - DDE	<4	ng/l	Y Cov	GEO47
p,p - DDE	<4	ng/l	Y Cov	GEO47
o,p - TDE	<4	ng/l	Y Cov	GEO47
p,p - TDE	<4	ng/l	Y Cov	GEO47
o,p - DDT	<4	ng/l	Y Cov	GEO47
p,p - DDT	<4	ng/l	Y Cov	GEO47
Tecnazene	<20	ng/l	Y Cov	GEO47
gamma-Chlordane	<8	ng/l	Y Cov	GEO47
Triallate	<20	ng/l	Y Cov	GEO47
Trifluralin	<60	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.008	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.004	ug/l	Y Cov	GEO47
Carbophenothion	<0.006	ug/l	Y Cov	GEO47

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585445**

Sample **4** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 12:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.004	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.004	ug/l	Y Cov	GEO47
Diazinon	<0.006	ug/l	Y Cov	GEO47
Dichlorvos	<0.004	ug/l	Y Cov	GEO47
Dimethoate	<0.040	ug/l	Y Cov	GEO47
Fenitrothion	<0.004	ug/l	Y Cov	GEO47
Fenthion	<0.004	ug/l	Y Cov	GEO47
Malathion	<0.008	ug/l	Y Cov	GEO47
Mevinphos	<0.040	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.006	ug/l	Y Cov	GEO47
Parathion-methyl	<0.006	ug/l	Y Cov	GEO47
Phorate	<0.008	ug/l	Y Cov	GEO47
Phosalone	<0.008	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.010	ug/l	Y Cov	GEO47
Propetamphos	<0.006	ug/l	Y Cov	GEO47
Triazophos	<0.004	ug/l	Y Cov	GEO47
Atrazine	<0.040	ug/l	Y Cov	GEO47
Prometryne	<0.040	ug/l	Y Cov	GEO47
Propazine	<0.040	ug/l	Y Cov	GEO47
Simazine	<0.040	ug/l	Y Cov	GEO47
Terbutryn	<0.040	ug/l	Y Cov	GEO47
Trietazine	<0.020	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	<1.0	ug/l	Y Cov	GEO32
Chloromethane	<1.0	ug/l	Y Cov	GEO32

## Severn Trent Services

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# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585445**

Sample **4** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 12:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<1.0	ug/l	Y Cov	GEO32
Bromomethane	<1.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Dichloromethane	1.3	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Chloroform	<1.0	ug/l	Y Cov	GEO32
Bromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
Benzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Trichloroethene	<1.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<1.0	ug/l	Y Cov	GEO32
Dibromomethane	<1.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
Toluene	<1.0	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<1.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<0.5	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<1.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<1.0	ug/l	Y Cov	GEO32
Chlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
Ethyl Benzene	<1.0	ug/l	Y Cov	GEO32
m&p-Xylene	<1.0	ug/l	Y Cov	GEO32

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585445**

Sample **4** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 12:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	<1.0	ug/l	Y Cov	GEO32
Styrene	<1.0	ug/l	Y Cov	GEO32
Bromoform	<1.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<1.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<1.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<1.0	ug/l	Y Cov	GEO32
Bromobenzene	<1.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<1.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	<1.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<1.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<2.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<1.0	ug/l	Y Cov	GEO32
Naphthalene	<1.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
MTBE	<1.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	98.7	%Recovery	N Cov	GEO32
Toluene-d8	100.5	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	101.0	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<2.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<2.0	ug/l	Y Cov	GEO40

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585445**

Sample **4** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 12:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<2.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<2.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<2.0	ug/l	Y Cov	GEO40
2-Methylphenol	<2.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	<2.0	ug/l	N Cov	GEO40
Dibenzofuran	<2.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<2.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<2.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<2.0	ug/l	Y Cov	GEO40
Hexachloroethane	<2.0	ug/l	Y Cov	GEO40
Nitrobenzene	<2.0	ug/l	Y Cov	GEO40
Isophorone	<2.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<2.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<2.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<2.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<2.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<2.0	ug/l	Y Cov	GEO40
Naphthalene	<4.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<2.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<2.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<2.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<2.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<2.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<2.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<2.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<2.0	ug/l	Y Cov	GEO40
Acenaphthylene	<2.0	ug/l	Y Cov	GEO40
Acenaphthene	<2.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<2.0	ug/l	Y Cov	GEO40
Diethylphthalate	<2.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<10.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<2.0	ug/l	Y Cov	GEO40

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585445**

Sample **4** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 12:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<2.0	ug/l	Y Cov	GEO40
Diphenylamine	<2.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<2.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<2.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<2.0	ug/l	Y Cov	GEO40
Phenanthrene	<2.0	ug/l	Y Cov	GEO40
Anthracene	<2.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<2.0	ug/l	Y Cov	GEO40
Fluoranthene	<2.0	ug/l	Y Cov	GEO40
Pyrene	<2.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<2.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<2.0	ug/l	Y Cov	GEO40
Chrysene	<2.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<10.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<2.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<2.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<2.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<2.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<2.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<2.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<2.0	ug/l	Y Cov	GEO40
2-Fluorophenol	94.0	%Recovery	N Cov	GEO40
Phenol-d6	87.6	%Recovery	N Cov	GEO40
Nitrobenzene-d5	94.8	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	90.6	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	105.0	%Recovery	N Cov	GEO40
Terphenyl-d14	93.8	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.001	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0030	mg/l	Y Cov	WAS051
Methane, Dissolved	5.2	mg/l	N Cov	62

Analyst Comments for 12585445:

## Severn Trent Services

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Reporting limits raised for SVOCs due to sample matrix.

Default.

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed:		Name: 	Date: <b>23 September 2011</b>
		Title: <b>Inorganics Operations Manager</b>	

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585446**

Sample **5** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 13:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	2.85	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.094	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0020	mg/l	Y Cov	WAS049
Calcium , Total as Ca	195	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0256	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.024	mg/l	Y Cov	WAS049
Iron , Total as Fe	11.2	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	1.27	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	16.6	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.025	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.810	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.058	mg/l	Y Cov	WAS049
Potassium , Total as K	339	mg/l	Y Cov	WAS049
Sodium , Total as Na	660	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.167	mg/l	Y Cov	WAS049
pH	7.6	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	7550	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	3140	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	545	mg/l	Y Cov	WAS036
Chloride as Cl	896	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Phosphate, Ortho as P	0.27	mg/l	Y Cov	WAS036
Sulphate as SO4	34.7	mg/l	Y Cov	WAS036
Suspended Solids	94.0	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	47	mg/l	Y Cov	WAS001
COD (1 hr settled)	834	mg/l	Y Cov	WAS040
TOC (Filtered)	205	mg/l	Y Cov	WAS005
Cyanide, Total as CN	10	ug/l	Y Cov	WAS018

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585446**

Sample **5** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 13:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.11	mg/l	Y Cov	WAS033
Fluoride as F	0.5	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
Aldrin	<40	ng/l	Y Cov	GEO47
alpha-Endosulphan	<40	ng/l	Y Cov	GEO47
alpha-HCH	<30	ng/l	Y Cov	GEO47
beta-Endosulphan	<40	ng/l	Y Cov	GEO47
beta-HCH	<30	ng/l	Y Cov	GEO47
alpha-Chlordane	<20	ng/l	Y Cov	GEO47
Dichlobenil	45	ng/l	Y Cov	GEO47
Dieldrin	<40	ng/l	Y Cov	GEO47
Endrin	<40	ng/l	N Cov	GEO47
gamma-HCH	<30	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<20	ng/l	Y Cov	GEO47
Hexachlorobenzene	<20	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<70	ng/l	Y Cov	GEO47
Isodrin	<40	ng/l	Y Cov	GEO47
o,p - DDE	<20	ng/l	Y Cov	GEO47
p,p - DDE	<20	ng/l	Y Cov	GEO47
o,p - TDE	<20	ng/l	Y Cov	GEO47
p,p - TDE	<20	ng/l	Y Cov	GEO47
o,p - DDT	<20	ng/l	Y Cov	GEO47
p,p - DDT	<20	ng/l	Y Cov	GEO47
Tecnazene	<100	ng/l	Y Cov	GEO47
gamma-Chlordane	<40	ng/l	Y Cov	GEO47
Triallate	<100	ng/l	Y Cov	GEO47
Trifluralin	<300	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.040	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.020	ug/l	Y Cov	GEO47
Carbophenothion	<0.030	ug/l	Y Cov	GEO47

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585446**

Sample **5** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 13:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.020	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.020	ug/l	Y Cov	GEO47
Diazinon	<0.030	ug/l	Y Cov	GEO47
Dichlorvos	<0.020	ug/l	Y Cov	GEO47
Dimethoate	<0.200	ug/l	Y Cov	GEO47
Fenitrothion	<0.020	ug/l	Y Cov	GEO47
Fenthion	<0.020	ug/l	Y Cov	GEO47
Malathion	<0.040	ug/l	Y Cov	GEO47
Mevinphos	<0.200	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.030	ug/l	Y Cov	GEO47
Parathion-methyl	<0.030	ug/l	Y Cov	GEO47
Phorate	<0.040	ug/l	Y Cov	GEO47
Phosalone	<0.040	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.050	ug/l	Y Cov	GEO47
Propetamphos	<0.030	ug/l	Y Cov	GEO47
Triazophos	<0.020	ug/l	Y Cov	GEO47
Atrazine	<0.200	ug/l	Y Cov	GEO47
Prometryne	<0.200	ug/l	Y Cov	GEO47
Propazine	<0.200	ug/l	Y Cov	GEO47
Simazine	<0.200	ug/l	Y Cov	GEO47
Terbutryn	<0.200	ug/l	Y Cov	GEO47
Trietazine	<0.100	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	<1.0	ug/l	Y Cov	GEO32
Chloromethane	<1.0	ug/l	Y Cov	GEO32

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585446**

Sample **5** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 13:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<1.0	ug/l	Y Cov	GEO32
Bromomethane	<1.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Dichloromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Chloroform	<1.0	ug/l	Y Cov	GEO32
Bromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
Benzene	2.4	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Trichloroethene	<1.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<1.0	ug/l	Y Cov	GEO32
Dibromomethane	<1.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
Toluene	1.8	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<1.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<0.5	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<1.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<1.0	ug/l	Y Cov	GEO32
Chlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
Ethyl Benzene	3.5	ug/l	Y Cov	GEO32
m&p-Xylene	7.8	ug/l	Y Cov	GEO32

## Severn Trent Services

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# Certificate of Analysis



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**SEVERN**  
**TRENT**  
**SERVICES**

Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585446**

Sample **5** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 13:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	3.7	ug/l	Y Cov	GEO32
Styrene	<1.0	ug/l	Y Cov	GEO32
Bromoform	<1.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<1.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<1.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<1.0	ug/l	Y Cov	GEO32
Bromobenzene	<1.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<1.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	1.6	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	3.3	ug/l	Y Cov	GEO32
sec-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	1.4	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<2.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<1.0	ug/l	Y Cov	GEO32
Naphthalene	1.1	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
MTBE	<1.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	95.2	%Recovery	N Cov	GEO32
Toluene-d8	100.6	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	100.9	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<10.0	ug/l	Y Cov	GEO40

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585446**

Sample **5** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 13:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<10.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
2-Methylphenol	<10.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	<10.0	ug/l	N Cov	GEO40
Dibenzofuran	<10.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<10.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<10.0	ug/l	Y Cov	GEO40
Hexachloroethane	<10.0	ug/l	Y Cov	GEO40
Nitrobenzene	<10.0	ug/l	Y Cov	GEO40
Isophorone	<10.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<10.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<10.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<10.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Naphthalene	<20.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<10.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<10.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<10.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<10.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<10.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Acenaphthylene	<10.0	ug/l	Y Cov	GEO40
Acenaphthene	<10.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Diethylphthalate	<10.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<50.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<10.0	ug/l	Y Cov	GEO40

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585446**

Sample **5** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 13:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<10.0	ug/l	Y Cov	GEO40
Diphenylamine	<10.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<10.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<10.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<10.0	ug/l	Y Cov	GEO40
Phenanthrene	<10.0	ug/l	Y Cov	GEO40
Anthracene	<10.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<10.0	ug/l	Y Cov	GEO40
Fluoranthene	<10.0	ug/l	Y Cov	GEO40
Pyrene	<10.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<10.0	ug/l	Y Cov	GEO40
Chrysene	<10.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<50.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<10.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<10.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<10.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<10.0	ug/l	Y Cov	GEO40
2-Fluorophenol	91.5	%Recovery	N Cov	GEO40
Phenol-d6	94.8	%Recovery	N Cov	GEO40
Nitrobenzene-d5	95.5	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	91.1	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	103.1	%Recovery	N Cov	GEO40
Terphenyl-d14	94.1	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.002	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0068	mg/l	Y Cov	WAS051
Methane, Dissolved	7.1	mg/l	N Cov	62

Analyst Comments for 12585446:

## Severn Trent Services



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Reporting limits raised for SVOCs due to sample matrix.  
Default.

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed: 	Name: 	Date: <b>23 September 2011</b>
	Title: <b>Inorganics Operations Manager</b>	

# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585447**

Sample **6** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 14:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	5.38	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.626	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0025	mg/l	Y Cov	WAS049
Calcium , Total as Ca	157	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.1081	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.018	mg/l	Y Cov	WAS049
Iron , Total as Fe	10.0	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	1.07	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	11.6	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.034	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.619	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.039	mg/l	Y Cov	WAS049
Potassium , Total as K	360	mg/l	Y Cov	WAS049
Sodium , Total as Na	643	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.104	mg/l	Y Cov	WAS049
pH	7.5	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	7230	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	3120	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	490	mg/l	Y Cov	WAS036
Chloride as Cl	806	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Phosphate, Ortho as P	0.30	mg/l	Y Cov	WAS036
Sulphate as SO4	33.3	mg/l	Y Cov	WAS036
Suspended Solids	264	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	36	mg/l	Y Cov	WAS001
COD (1 hr settled)	799	mg/l	Y Cov	WAS040
TOC (Filtered)	204	mg/l	Y Cov	WAS005
Cyanide, Total as CN	<10	ug/l	Y Cov	WAS018

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585447**

Sample **6** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 14:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.12	mg/l	Y Cov	WAS033
Fluoride as F	0.4	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	45	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
Aldrin	<8	ng/l	Y Cov	GEO47
alpha-Endosulphan	<8	ng/l	Y Cov	GEO47
alpha-HCH	22	ng/l	Y Cov	GEO47
beta-Endosulphan	<8	ng/l	Y Cov	GEO47
beta-HCH	<6	ng/l	Y Cov	GEO47
alpha-Chlordane	<4	ng/l	Y Cov	GEO47
Dichlobenil	16	ng/l	Y Cov	GEO47
Dieldrin	<8	ng/l	Y Cov	GEO47
Endrin	<8	ng/l	N Cov	GEO47
gamma-HCH	<6	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	Y Cov	GEO47
Hexachlorobenzene	<4	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<14	ng/l	Y Cov	GEO47
Isodrin	<8	ng/l	Y Cov	GEO47
o,p - DDE	<4	ng/l	Y Cov	GEO47
p,p - DDE	<4	ng/l	Y Cov	GEO47
o,p - TDE	<4	ng/l	Y Cov	GEO47
p,p - TDE	<4	ng/l	Y Cov	GEO47
o,p - DDT	<4	ng/l	Y Cov	GEO47
p,p - DDT	<4	ng/l	Y Cov	GEO47
Tecnazene	<20	ng/l	Y Cov	GEO47
gamma-Chlordane	<8	ng/l	Y Cov	GEO47
Triallate	<20	ng/l	Y Cov	GEO47
Trifluralin	<60	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.008	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.004	ug/l	Y Cov	GEO47
Carbophenothion	<0.006	ug/l	Y Cov	GEO47

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Report Number: **BRD/804493/2011**

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Laboratory Number: **12585447**

Sample **6** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 14:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.004	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.004	ug/l	Y Cov	GEO47
Diazinon	<0.006	ug/l	Y Cov	GEO47
Dichlorvos	<0.004	ug/l	Y Cov	GEO47
Dimethoate	<0.040	ug/l	Y Cov	GEO47
Fenitrothion	<0.004	ug/l	Y Cov	GEO47
Fenthion	<0.004	ug/l	Y Cov	GEO47
Malathion	<0.008	ug/l	Y Cov	GEO47
Mevinphos	<0.040	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.006	ug/l	Y Cov	GEO47
Parathion-methyl	0.008	ug/l	Y Cov	GEO47
Phorate	<0.008	ug/l	Y Cov	GEO47
Phosalone	<0.008	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.010	ug/l	Y Cov	GEO47
Propetamphos	<0.006	ug/l	Y Cov	GEO47
Triazophos	<0.004	ug/l	Y Cov	GEO47
Atrazine	<0.040	ug/l	Y Cov	GEO47
Prometryne	<0.040	ug/l	Y Cov	GEO47
Propazine	<0.040	ug/l	Y Cov	GEO47
Simazine	<0.040	ug/l	Y Cov	GEO47
Terbutryn	<0.040	ug/l	Y Cov	GEO47
Trietazine	<0.020	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	<1.0	ug/l	Y Cov	GEO32
Chloromethane	<1.0	ug/l	Y Cov	GEO32

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585447**

Sample **6** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 14:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<1.0	ug/l	Y Cov	GEO32
Bromomethane	<1.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Dichloromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Chloroform	<1.0	ug/l	Y Cov	GEO32
Bromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
Benzene	1.4	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Trichloroethene	<1.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<1.0	ug/l	Y Cov	GEO32
Dibromomethane	<1.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
Toluene	7.3	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<1.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<0.5	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<1.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<1.0	ug/l	Y Cov	GEO32
Chlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
Ethyl Benzene	11.0	ug/l	Y Cov	GEO32
m&p-Xylene	46.1	ug/l	Y Cov	GEO32

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585447**

Sample **6** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 14:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	19.2	ug/l	Y Cov	GEO32
Styrene	<1.0	ug/l	Y Cov	GEO32
Bromoform	<1.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Isopropylbenzene	4.3	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<1.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<1.0	ug/l	Y Cov	GEO32
Bromobenzene	<1.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	4.3	ug/l	Y Cov	GEO32
4-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	12.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	15.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	11.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	2.3	ug/l	Y Cov	GEO32
n-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<2.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<1.0	ug/l	Y Cov	GEO32
Naphthalene	3.8	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
MTBE	<1.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	93.4	%Recovery	N Cov	GEO32
Toluene-d8	100.7	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	101.1	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<10.0	ug/l	Y Cov	GEO40

## Severn Trent Services

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# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585447**

Sample **6** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 14:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<10.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
2-Methylphenol	<10.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	<10.0	ug/l	N Cov	GEO40
Dibenzofuran	<10.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<10.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<10.0	ug/l	Y Cov	GEO40
Hexachloroethane	<10.0	ug/l	Y Cov	GEO40
Nitrobenzene	<10.0	ug/l	Y Cov	GEO40
Isophorone	<10.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<10.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<10.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<10.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Naphthalene	<20.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<10.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<10.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<10.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<10.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<10.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Acenaphthylene	<10.0	ug/l	Y Cov	GEO40
Acenaphthene	<10.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Diethylphthalate	<10.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<50.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<10.0	ug/l	Y Cov	GEO40

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# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585447**

Sample **6** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 14:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<10.0	ug/l	Y Cov	GEO40
Diphenylamine	<10.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<10.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<10.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<10.0	ug/l	Y Cov	GEO40
Phenanthrene	<10.0	ug/l	Y Cov	GEO40
Anthracene	<10.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<10.0	ug/l	Y Cov	GEO40
Fluoranthene	<10.0	ug/l	Y Cov	GEO40
Pyrene	<10.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<10.0	ug/l	Y Cov	GEO40
Chrysene	<10.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<50.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<10.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<10.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<10.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<10.0	ug/l	Y Cov	GEO40
2-Fluorophenol	97.7	%Recovery	N Cov	GEO40
Phenol-d6	91.8	%Recovery	N Cov	GEO40
Nitrobenzene-d5	97.9	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	93.2	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	102.5	%Recovery	N Cov	GEO40
Terphenyl-d14	89.0	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.003	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.1702	mg/l	Y Cov	WAS051
Methane, Dissolved	11	mg/l	N Cov	62

Analyst Comments for 12585447:

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Reporting limits raised for SVOCs due to sample matrix.

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed:



Name:



Date: **23 September 2011**

Title:

**Inorganics Operations Manager**

# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585448**

Sample **7** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	10.0	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.323	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0028	mg/l	Y Cov	WAS049
Calcium , Total as Ca	128	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0726	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.105	mg/l	Y Cov	WAS049
Iron , Total as Fe	13.5	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	10	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	13.7	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.042	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.877	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.127	mg/l	Y Cov	WAS049
Potassium , Total as K	745	mg/l	Y Cov	WAS049
Sodium , Total as Na	1110	mg/l	Y Cov	WAS049
Zinc, Total as Zn	1.44	mg/l	Y Cov	WAS049
pH	7.7	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	11400	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	4580	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	873	mg/l	Y Cov	WAS036
Chloride as Cl	1550	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Phosphate, Ortho as P	3.87	mg/l	Y Cov	WAS036
Sulphate as SO4	15.7	mg/l	Y Cov	WAS036
Suspended Solids	96.0	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	416	mg/l	Y Cov	WAS001
COD (1 hr settled)	1440	mg/l	Y Cov	WAS040
TOC (Filtered)	392	mg/l	Y Cov	WAS005
Cyanide, Total as CN	11	ug/l	Y Cov	WAS018

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**SERVICES**

Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585448**

Sample **7** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.19	mg/l	Y Cov	WAS033
Fluoride as F	0.6	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	55	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
Aldrin	<8	ng/l	Y Cov	GEO47
alpha-Endosulphan	<8	ng/l	Y Cov	GEO47
alpha-HCH	<6	ng/l	Y Cov	GEO47
beta-Endosulphan	<8	ng/l	Y Cov	GEO47
beta-HCH	<6	ng/l	Y Cov	GEO47
alpha-Chlordane	<4	ng/l	Y Cov	GEO47
Dichlobenil	40	ng/l	Y Cov	GEO47
Dieldrin	<8	ng/l	Y Cov	GEO47
Endrin	<8	ng/l	N Cov	GEO47
gamma-HCH	<6	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	Y Cov	GEO47
Hexachlorobenzene	<4	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<14	ng/l	Y Cov	GEO47
Isodrin	194	ng/l	Y Cov	GEO47
o,p - DDE	<4	ng/l	Y Cov	GEO47
p,p - DDE	<4	ng/l	Y Cov	GEO47
o,p - TDE	<4	ng/l	Y Cov	GEO47
p,p - TDE	<4	ng/l	Y Cov	GEO47
o,p - DDT	<4	ng/l	Y Cov	GEO47
p,p - DDT	<4	ng/l	Y Cov	GEO47
Tecnazene	<20	ng/l	Y Cov	GEO47
gamma-Chlordane	<8	ng/l	Y Cov	GEO47
Triallate	<20	ng/l	Y Cov	GEO47
Trifluralin	<60	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.008	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.004	ug/l	Y Cov	GEO47
Carbophenothion	<0.006	ug/l	Y Cov	GEO47

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**SEVERN**  
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**SERVICES**

Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585448**

Sample **7** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.004	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.004	ug/l	Y Cov	GEO47
Diazinon	<0.006	ug/l	Y Cov	GEO47
Dichlorvos	<0.004	ug/l	Y Cov	GEO47
Dimethoate	<0.040	ug/l	Y Cov	GEO47
Fenitrothion	<0.004	ug/l	Y Cov	GEO47
Fenthion	<0.004	ug/l	Y Cov	GEO47
Malathion	<0.008	ug/l	Y Cov	GEO47
Mevinphos	<0.040	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.006	ug/l	Y Cov	GEO47
Parathion-methyl	<0.006	ug/l	Y Cov	GEO47
Phorate	<0.008	ug/l	Y Cov	GEO47
Phosalone	<0.008	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.010	ug/l	Y Cov	GEO47
Propetamphos	<0.006	ug/l	Y Cov	GEO47
Triazophos	<0.004	ug/l	Y Cov	GEO47
Atrazine	<0.040	ug/l	Y Cov	GEO47
Prometryne	<0.040	ug/l	Y Cov	GEO47
Propazine	<0.040	ug/l	Y Cov	GEO47
Simazine	<0.040	ug/l	Y Cov	GEO47
Terbutryn	<0.040	ug/l	Y Cov	GEO47
Trietazine	<0.020	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	Analyst Comment	ug/l	Y Cov	GEO32
Chloromethane	Analyst Comment	ug/l	Y Cov	GEO32

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SERVICES

Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585448**

Sample **7** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<10.0	ug/l	Y Cov	GEO32
Bromomethane	Analyst Comment	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<10.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<10.0	ug/l	Y Cov	GEO32
Dichloromethane	<10.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<10.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<10.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<10.0	ug/l	Y Cov	GEO32
Chloroform	<10.0	ug/l	Y Cov	GEO32
Bromochloromethane	<10.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<10.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<10.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<10.0	ug/l	Y Cov	GEO32
Benzene	<10.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<10.0	ug/l	Y Cov	GEO32
Trichloroethene	<10.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<10.0	ug/l	Y Cov	GEO32
Dibromomethane	<10.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<10.0	ug/l	Y Cov	GEO32
Toluene	<10.0	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<10.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<10.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<10.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<5.0	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<10.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<10.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<10.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<10.0	ug/l	Y Cov	GEO32
Chlorobenzene	<10.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<10.0	ug/l	Y Cov	GEO32
Ethyl Benzene	13.6	ug/l	Y Cov	GEO32
m&p-Xylene	31.0	ug/l	Y Cov	GEO32

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585448**

Sample **7** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	10.2	ug/l	Y Cov	GEO32
Styrene	<10.0	ug/l	Y Cov	GEO32
Bromoform	<10.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<10.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<10.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<10.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<10.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<10.0	ug/l	Y Cov	GEO32
Bromobenzene	<10.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<10.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<10.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<10.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	<10.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<10.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<20.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<10.0	ug/l	Y Cov	GEO32
Naphthalene	<10.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO32
MTBE	Analyst Comment	ug/l	Y Cov	GEO32
Dibromofluoromethane	95.9	%Recovery	N Cov	GEO32
Toluene-d8	98.5	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	84.9	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	79.9	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<10.0	ug/l	Y Cov	GEO40

## Severn Trent Services

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585448**

Sample **7** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<10.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
2-Methylphenol	<10.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	95.8	ug/l	N Cov	GEO40
Dibenzofuran	<10.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<10.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<10.0	ug/l	Y Cov	GEO40
Hexachloroethane	<10.0	ug/l	Y Cov	GEO40
Nitrobenzene	<10.0	ug/l	Y Cov	GEO40
Isophorone	<10.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<10.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<10.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<10.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Naphthalene	<20.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<10.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<10.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<10.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<10.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<10.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Acenaphthylene	<10.0	ug/l	Y Cov	GEO40
Acenaphthene	<10.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Diethylphthalate	<10.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<50.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<10.0	ug/l	Y Cov	GEO40

## Severn Trent Services

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# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585448**

Sample **7** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<10.0	ug/l	Y Cov	GEO40
Diphenylamine	<10.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<10.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<10.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<10.0	ug/l	Y Cov	GEO40
Phenanthrene	<10.0	ug/l	Y Cov	GEO40
Anthracene	<10.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<10.0	ug/l	Y Cov	GEO40
Fluoranthene	<10.0	ug/l	Y Cov	GEO40
Pyrene	<10.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<10.0	ug/l	Y Cov	GEO40
Chrysene	<10.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<50.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<10.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<10.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<10.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<10.0	ug/l	Y Cov	GEO40
2-Fluorophenol	91.9	%Recovery	N Cov	GEO40
Phenol-d6	97.8	%Recovery	N Cov	GEO40
Nitrobenzene-d5	98.1	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	93.4	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	103.4	%Recovery	N Cov	GEO40
Terphenyl-d14	96.5	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.003	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0120	mg/l	Y Cov	WAS051
Methane, Dissolved	4.2	mg/l	N Cov	62

Analyst Comments for 12585448:

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Reporting limits raised for SVOCs due to sample matrix.  
VOC reporting limits raised due to nature of sample matrix. Results for  
Dichlorodifluoromethane=<10.0ug/l,Chloromethane=<10.0ug/l,Bromomethane=<10.0ug/l,MTBE=<10.0ug/l  
are given as indications only due to AQC breaches. Integrity breach between Fe (Total and Ferrous),  
results within 10%.

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed: 	Name: 	Date: <b>23 September 2011</b>
	Title: <b>Inorganics Operations Manager</b>	

# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585449**

Sample **8** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	5.64	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.335	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0036	mg/l	Y Cov	WAS049
Calcium , Total as Ca	164	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0272	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.052	mg/l	Y Cov	WAS049
Iron , Total as Fe	24.6	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	2.35	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	21.1	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	3.1	mg/l	N Cov	CALC
Lead , Total as Pb	0.139	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.791	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.142	mg/l	Y Cov	WAS049
Potassium , Total as K	851	mg/l	Y Cov	WAS049
Sodium , Total as Na	1100	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.176	mg/l	Y Cov	WAS049
pH	7.5	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	12000	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	5110	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	912	mg/l	Y Cov	WAS036
Chloride as Cl	1560	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Phosphate, Ortho as P	2.64	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	<5.00	mg/l	Y Cov	CON27
Suspended Solids	136	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	97	mg/l	Y Cov	WAS001
COD (1 hr settled)	1300	mg/l	Y Cov	WAS040
TOC (Filtered)	298	mg/l	Y Cov	WAS005
Cyanide, Total as CN	<10	ug/l	Y Cov	WAS018

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585449**

Sample **8** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.15	mg/l	Y Cov	WAS033
Fluoride as F	1.1	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	21	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
Aldrin	<8	ng/l	Y Cov	GEO47
alpha-Endosulphan	<8	ng/l	Y Cov	GEO47
alpha-HCH	<6	ng/l	Y Cov	GEO47
beta-Endosulphan	<8	ng/l	Y Cov	GEO47
beta-HCH	<6	ng/l	Y Cov	GEO47
alpha-Chlordane	<4	ng/l	Y Cov	GEO47
Dichlobenil	62	ng/l	Y Cov	GEO47
Dieldrin	10	ng/l	Y Cov	GEO47
Endrin	<8	ng/l	N Cov	GEO47
gamma-HCH	155	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	Y Cov	GEO47
Hexachlorobenzene	<4	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<14	ng/l	Y Cov	GEO47
Isodrin	<8	ng/l	Y Cov	GEO47
o,p - DDE	<4	ng/l	Y Cov	GEO47
p,p - DDE	<4	ng/l	Y Cov	GEO47
o,p - TDE	<4	ng/l	Y Cov	GEO47
p,p - TDE	<4	ng/l	Y Cov	GEO47
o,p - DDT	<4	ng/l	Y Cov	GEO47
p,p - DDT	<4	ng/l	Y Cov	GEO47
Tecnazene	<20	ng/l	Y Cov	GEO47
gamma-Chlordane	<8	ng/l	Y Cov	GEO47
Triallate	<20	ng/l	Y Cov	GEO47
Trifluralin	<60	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.008	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.004	ug/l	Y Cov	GEO47
Carbophenothion	<0.006	ug/l	Y Cov	GEO47

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585449**

Sample **8** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.004	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.004	ug/l	Y Cov	GEO47
Diazinon	<0.006	ug/l	Y Cov	GEO47
Dichlorvos	<0.004	ug/l	Y Cov	GEO47
Dimethoate	<0.040	ug/l	Y Cov	GEO47
Fenitrothion	<0.004	ug/l	Y Cov	GEO47
Fenthion	<0.004	ug/l	Y Cov	GEO47
Malathion	<0.008	ug/l	Y Cov	GEO47
Mevinphos	<0.040	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.006	ug/l	Y Cov	GEO47
Parathion-methyl	0.046	ug/l	Y Cov	GEO47
Phorate	<0.008	ug/l	Y Cov	GEO47
Phosalone	<0.008	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.010	ug/l	Y Cov	GEO47
Propetamphos	<0.006	ug/l	Y Cov	GEO47
Triazophos	<0.004	ug/l	Y Cov	GEO47
Atrazine	<0.040	ug/l	Y Cov	GEO47
Prometryne	<0.040	ug/l	Y Cov	GEO47
Propazine	<0.040	ug/l	Y Cov	GEO47
Simazine	<0.040	ug/l	Y Cov	GEO47
Terbutryn	<0.040	ug/l	Y Cov	GEO47
Trietazine	<0.020	ug/l	Y Cov	GEO47
Acetic acid	27.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	27.0	mg/l	Y Cov	CON17
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	<1.0	ug/l	Y Cov	GEO32
Chloromethane	<1.0	ug/l	Y Cov	GEO32

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585449**

Sample **8** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<1.0	ug/l	Y Cov	GEO32
Bromomethane	<1.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Dichloromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Chloroform	<1.0	ug/l	Y Cov	GEO32
Bromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
Benzene	2.5	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Trichloroethene	<1.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<1.0	ug/l	Y Cov	GEO32
Dibromomethane	<1.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
Toluene	20.1	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<1.0	ug/l	Y Cov	GEO32
Vinyl Chloride	0.9	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<1.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<1.0	ug/l	Y Cov	GEO32
Chlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
Ethyl Benzene	55.4	ug/l	Y Cov	GEO32
m&p-Xylene	137	ug/l	Y Cov	GEO32

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585449**

Sample **8** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	50.6	ug/l	Y Cov	GEO32
Styrene	<1.0	ug/l	Y Cov	GEO32
Bromoform	<1.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Isopropylbenzene	7.4	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<1.0	ug/l	Y Cov	GEO32
n-Propylbenzene	3.3	ug/l	Y Cov	GEO32
Bromobenzene	<1.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	7.4	ug/l	Y Cov	GEO32
4-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	21.2	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	32.7	ug/l	Y Cov	GEO32
sec-Butylbenzene	1.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	21.4	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	5.1	ug/l	Y Cov	GEO32
n-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<2.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<1.0	ug/l	Y Cov	GEO32
Naphthalene	14.3	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
MTBE	<1.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	90.2	%Recovery	N Cov	GEO32
Toluene-d8	101.1	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	103.6	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<10.0	ug/l	Y Cov	GEO40

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585449**

Sample **8** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<10.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
2-Methylphenol	<10.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	117	ug/l	N Cov	GEO40
Dibenzofuran	<10.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<10.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<10.0	ug/l	Y Cov	GEO40
Hexachloroethane	<10.0	ug/l	Y Cov	GEO40
Nitrobenzene	<10.0	ug/l	Y Cov	GEO40
Isophorone	<10.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	16.1	ug/l	Y Cov	GEO40
2-Nitrophenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<10.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<10.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Naphthalene	<20.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<10.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<10.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<10.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<10.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<10.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Acenaphthylene	<10.0	ug/l	Y Cov	GEO40
Acenaphthene	<10.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Diethylphthalate	<10.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<50.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<10.0	ug/l	Y Cov	GEO40

## Severn Trent Services

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585449**

Sample **8** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20A**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<10.0	ug/l	Y Cov	GEO40
Diphenylamine	<10.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<10.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<10.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<10.0	ug/l	Y Cov	GEO40
Phenanthrene	<10.0	ug/l	Y Cov	GEO40
Anthracene	<10.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<10.0	ug/l	Y Cov	GEO40
Fluoranthene	<10.0	ug/l	Y Cov	GEO40
Pyrene	<10.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<10.0	ug/l	Y Cov	GEO40
Chrysene	<10.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<50.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<10.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<10.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<10.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<10.0	ug/l	Y Cov	GEO40
2-Fluorophenol	90.1	%Recovery	N Cov	GEO40
Phenol-d6	88.4	%Recovery	N Cov	GEO40
Nitrobenzene-d5	82.5	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	75.6	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	97.1	%Recovery	N Cov	GEO40
Terphenyl-d14	85.0	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.004	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0112	mg/l	Y Cov	WAS051
Methane, Dissolved	6.1	mg/l	N Cov	62

Analyst Comments for 12585449:

## Severn Trent Services

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Reporting limits raised for SVOCs due to sample matrix.  
Sulphate analysed by ion chromatography due to interference with turbidimetric determination  
Reporting limit raised for sulphate by ion chromatography due to sample matrix.

Default.

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed: 	Name: 	Date: <b>23 September 2011</b>
	Title: <b>Inorganics Operations Manager</b>	

# Certificate of Analysis



1314  
1229  
0897  
4409



Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585450**

Sample **9** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1 B Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.072	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.031	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.080	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	987	mg/l	Y Cov	WAS036
Sulphide as S	0.17	mg/l	Y Cov	WAS033

## Analyst Comments for 12585450:

Sample filtered through a 0.45um filter prior to analysis

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed:

Name:

Date: **23 September 2011**

Title:

**Inorganics Operations Manager**

## Severn Trent Services

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# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585451**

Sample **10** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8 B Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 10:40**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.033	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.006	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.017	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	5.88	mg/l	Y Cov	WAS036
Sulphide as S	0.08	mg/l	Y Cov	WAS033

## Analyst Comments for 12585451:

Sample filtered through a 0.45um filter prior to analysis

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed:

Name:

Date: **23 September 2011**

Title:

**Inorganics Operations Manager**

## Severn Trent Services

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585452**

Sample **11** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3 B Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 11:10**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.079	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.019	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.060	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	306	mg/l	Y Cov	WAS036
Sulphide as S	46.51	mg/l	Y Cov	WAS033

## Analyst Comments for 12585452:

Sample filtered through a 0.45um filter prior to analysis

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed:

Name:

Date: **23 September 2011**

Title:

**Inorganics Operations Manager**

## Severn Trent Services

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# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585453**

Sample **12** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2 B Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 12:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.051	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.036	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.038	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	82.8	mg/l	Y Cov	WAS036
Sulphide as S	0.16	mg/l	Y Cov	WAS033

## Analyst Comments for 12585453:

Sample filtered through a 0.45um filter prior to analysis

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed:

Name:

Date: **23 September 2011**

Title:

**Inorganics Operations Manager**

## Severn Trent Services

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# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585454**

Sample **13** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4 B Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 13:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.055	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.039	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.072	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	535	mg/l	Y Cov	WAS036
Sulphide as S	0.09	mg/l	Y Cov	WAS033

#### Analyst Comments for 12585454:

Sample filtered through a 0.45um filter prior to analysis

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed:

Name:

Date: **23 September 2011**

Title:

**Inorganics Operations Manager**

#### Severn Trent Services

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# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585455**

Sample **14** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1 B Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011 14:00**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.086	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.025	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.062	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	490	mg/l	Y Cov	WAS036
Sulphide as S	0.12	mg/l	Y Cov	WAS033

## Analyst Comments for 12585455:

Sample filtered through a 0.45um filter prior to analysis

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed:

Name:

Date: **23 September 2011**

Title:

**Inorganics Operations Manager**

## Severn Trent Services

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# Certificate of Analysis



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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585456**

Sample **15** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5 B Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.143	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.092	mg/l	Y Cov	WAS049
Zinc, Total as Zn	1.11	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	848	mg/l	Y Cov	WAS036
Sulphide as S	0.06	mg/l	Y Cov	WAS033

#### Analyst Comments for 12585456:

Sample filtered through a 0.45um filter prior to analysis

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed:

Name:

Date: **23 September 2011**

Title:

**Inorganics Operations Manager**

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Report Number: **BRD/804493/2011**

Issue **1**

Laboratory Number: **12585457**

Sample **16** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20 B Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **07 September 2011**

Sample Received: **07 September 2011**

Analysis Complete: **23 September 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.075	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.027	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.065	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	879	mg/l	Y Cov	WAS036
Sulphide as S	0.12	mg/l	Y Cov	WAS033

## Analyst Comments for 12585457:

Sample filtered through a 0.45um filter prior to analysis

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.  
I/S=Insufficient sample

Signed:

Name:

Date: **23 September 2011**

Title:

**Inorganics Operations Manager**

## Severn Trent Services

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