

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

07 May 2010

Test Report: BRD/687056/2010

Dear ██████████

Analysis of your sample(s) submitted on 16 April 2010 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 STL and we look forward to receiving your next samples.

Yours Sincerely,

Signed: ██████████

Name: ██████████

Title: Chemistry Operations Manager

STL Bridgend

2 Technology Drive, Bridgend Science Park,
Bridgend, CF31 3NA

Tel: +44 (0)16 5664 7557

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Severn Trent Laboratories Limited

Registered in England & Wales Registration No. 2148934 Registered Office: 2297 Coventry Road, Birmingham B26



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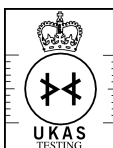


Cert. No. 10269
Environmental Management Systems



Certificate No. FS67435

Report Summary



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

Date of Issue: **07 May 2010**

Report Number: **BRD/687056/2010**

Issue **1**

Job Description: Leachate Analysis

Number of Samples
included in this report **1**

Job Received: **16 April 2010**

Number of Test Results
included in this report **225**

Analysis Commenced: **19 April 2010**

Signed:



Name:



Date: **07 May 2010**

Title:

Chemistry Operations Manager

STL 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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Report Number: **BRD/687056/2010**

Issue **1**

Laboratory Number: **11707816**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description: **Leachate**

Sample Description: **March Sample**

Sample Matrix: **Leachate**

Sample Date: **09 March 2010** Sample Received **16 April 2010** Analysis Complete: **30 April 2010**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.16	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	<0.0003	mg/l	Y Cov	WAS049
Cadmium, Filtered as Cd	<0.0003	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.029	mg/l	Y Cov	WAS049
Copper, Total as Cu	<0.001	mg/l	Y Cov	WAS049
Iron , Total as Fe	12.15	mg/l	Y Cov	WAS049
Lead , Total as Pb	0.012	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.91	mg/l	Y Cov	WAS049
Mercury, Filtered as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.0732	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.041	mg/l	Y Cov	WAS049
pH	8.2	pH units	Y Cov	WAS039
Ammoniacal Nitrogen as N	481	mg/l	Y Cov	WAS036
Ammonia as NH3, Calculated	577	mg/l	N Cov	CALC
Suspended Solids	122	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	68	mg/l	Y Cov	WAS001
COD (Total)	695	mg/l	Y Cov	WAS040
Cyanide, Free as CN	<0.1	mg/l	Y Cov	WAS018
Cyanide, Total as CN	<100	ug/l	Y Cov	WAS018
Phenols Mono (Phenol Index)	<0.1	mg/l	Y Cov	WAS019
1,2,3-Trichlorobenzene	<60	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<60	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<60	ng/l	Y Cov	GEO47
Aldrin	<60	ng/l	Y Cov	GEO47
alpha-Endosulphan	<60	ng/l	Y Cov	GEO47
alpha-HCH	<20	ng/l	Y Cov	GEO47
beta-Endosulphan	<60	ng/l	Y Cov	GEO47
beta-HCH	<20	ng/l	Y Cov	GEO47
alpha-Chlordane	<20	ng/l	Y Cov	GEO47
Dichlobenil	50	ng/l	Y Cov	GEO47
Dieldrin	<60	ng/l	Y Cov	GEO47
Endrin	<60	ng/l	Y Cov	GEO47
gamma-HCH	<20	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<20	ng/l	Y Cov	GEO47
Hexachlorobenzene	<20	ng/l	Y Cov	GEO47

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Report Number: **BRD/687056/2010**

Issue **1**

Laboratory Number: **11707816**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description: **Leachate**

Sample Description: **March Sample**

Sample Matrix: **Leachate**

Sample Date: **09 March 2010** Sample Received **16 April 2010** Analysis Complete: **30 April 2010**

Test Description	Result	Units	Accreditation	Method
Hexachlorobutadiene	<20	ng/l	Y Cov	GEO47
Isodrin	<60	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	<20	ng/l	Y Cov	GEO47
Triallate	<100	ng/l	Y Cov	GEO47
Trifluralin	<100	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.020	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.020	ug/l	Y Cov	GEO47
Carbophenothion	<0.020	ug/l	Y Cov	GEO47
Chlorfenvinphos	<0.020	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.020	ug/l	Y Cov	GEO47
Demeton-s-methyl	Analyst Comment	ug/l	Y Cov	GEO47
Diazinon	<0.020	ug/l	Y Cov	GEO47
Dichlorvos	<0.020	ug/l	Y Cov	GEO47
Dimethoate	<0.200	ug/l	Y Cov	GEO47
Disulphoton	Analyst Comment	ug/l	Y Cov	GEO47
Fenitrothion	<0.020	ug/l	Y Cov	GEO47
Fenthion	<0.020	ug/l	Y Cov	GEO47
Malathion	<0.020	ug/l	Y Cov	GEO47
Mevinphos	<0.020	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.020	ug/l	Y Cov	GEO47
Parathion-methyl	<0.020	ug/l	Y Cov	GEO47
Phorate	<0.020	ug/l	Y Cov	GEO47
Phosalone	<0.200	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.020	ug/l	Y Cov	GEO47
Propetamphos	<0.200	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

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Laboratory Number: **11707816**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description: **Leachate**

Sample Description: **March Sample**

Sample Matrix: **Leachate**

Sample Date: **09 March 2010** Sample Received **16 April 2010** Analysis Complete: **30 April 2010**

Test Description	Result	Units	Accreditation	Method
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	<0.200	ug/l	Y Cov	GEO47
TPH >C6-C40	543	ug/l	Y Cov	GEO35
TPH >C6-C8	<40	ug/l	N Cov	GEO35
TPH >C8-C10	43	ug/l	N Cov	GEO35
TPH >C16-C24	135	ug/l	N Cov	GEO35
TPH >C24-C40	<40	ug/l	N Cov	GEO35
TPH >C10-C16	365	ug/l	N Cov	GEO35
Acenaphthene	0.789	ug/l	Y Cov	GEO19
Acenaphthylene	<0.04	ug/l	Y Cov	GEO19
Anthracene	0.075	ug/l	Y Cov	GEO19
Benzo (a) anthracene	0.134	ug/l	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.04	ug/l	Y Cov	GEO19
Benzo (a) pyrene	<0.04	ug/l	Y Cov	GEO19
Benzo (b) fluoranthene	<0.04	ug/l	Y Cov	GEO19
Benzo (k) fluoranthene	<0.04	ug/l	Y Cov	GEO19
Chrysene	0.068	ug/l	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.04	ug/l	Y Cov	GEO19
Fluoranthene	0.170	ug/l	Y Cov	GEO19
Fluorene	0.448	ug/l	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.04	ug/l	Y Cov	GEO19
Naphthalene	2.84	ug/l	Y Cov	GEO19
Phenanthrene	0.460	ug/l	Y Cov	GEO19
Pyrene	0.128	ug/l	Y Cov	GEO19
PAH, Total	5.11	ug/l	N Cov	GEO19
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	<10.0	ug/l	N Cov	GEO32
Chloromethane	<10.0	ug/l	Y Cov	GEO32
Chloroethane	<10.0	ug/l	Y Cov	GEO32
Bromomethane	<10.0	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

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Issue **1**

Laboratory Number: **11707816**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description: **Leachate**

Sample Description: **March Sample**

Sample Matrix: **Leachate**

Sample Date: **09 March 2010** Sample Received **16 April 2010** Analysis Complete: **30 April 2010**

Test Description	Result	Units	Accreditation	Method
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	<10.0	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	<10.0	ug/l	Y Cov	GEO32
m,p-Xylene	<10.0	ug/l	Y Cov	GEO32
o-Xylene	<10.0	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

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Report Number: **BRD/687056/2010**

Issue **1**

Laboratory Number: **11707816**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description: **Leachate**

Sample Description: **March Sample**

Sample Matrix: **Leachate**

Sample Date: **09 March 2010** Sample Received **16 April 2010** Analysis Complete: **30 April 2010**

Test Description	Result	Units	Accreditation	Method
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	N Cov	GEO32
Naphthalene	<10.0	ug/l	N Cov	GEO32
1,2,3-Trichlorobenzene	<10.0	ug/l	N Cov	GEO32
MTBE	<10.0	ug/l	N Cov	GEO32
Dibromofluoromethane	99.6	%Recovery	N Cov	GEO32
Toluene-d8	97.7	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	93.8	%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
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	N Cov	GEO40
3&4-Methylphenol	<4.0	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

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Report Number: **BRD/687056/2010**

Issue **1**

Laboratory Number: **11707816**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description: **Leachate**

Sample Description: **March Sample**

Sample Matrix: **Leachate**

Sample Date: **09 March 2010** Sample Received **16 April 2010** Analysis Complete: **30 April 2010**

Test Description	Result	Units	Accreditation	Method
Isophorone	<4.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	6.4	ug/l	Y Cov	GEO40
2-Nitrophenol	<4.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<8.0	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	<8.0	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
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	<40.0	ug/l	Y Cov	GEO40

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Report Number: **BRD/687056/2010**
Laboratory Number: **11707816**

Issue **1**
Sample **1** of **1**

Sample Source: **Telford & Wrekin Council**
Sample Point Description: **Leachate**
Sample Description: **March Sample**
Sample Matrix: **Leachate**

Sample Date: **09 March 2010** Sample Received **16 April 2010** Analysis Complete: **30 April 2010**

Test Description	Result	Units	Accreditation	Method
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	77.0	%Recovery	N Cov	GEO40
Phenol-d6	85.1	%Recovery	N Cov	GEO40
Nitrobenzene-d5	92.4	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	90.4	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	90.1	%Recovery	N Cov	GEO40
Terphenyl-d14	83.7	%Recovery	N Cov	GEO40
Arsenic, Total as As	0.014	mg/l	Y Cov	WAS051
Methane, Dissolved	2.5	mg/l	N Mid	62

Analyst Comments for 11707816:

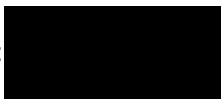
VOC reporting limits raised due to nature of sample matrix.
Monophenol sampled from 1 litre pet as no fixed subsample was available.
Reporting limits raised for TPH due to sample matrix. Low TPH surrogate recovery at 43.2% due to interference from the sample matrix.
SVOC reporting limits raised due to nature of sample matrix.
Unable to report results for Demeton-s-methyl and Disulphoton due to AQC breaches.

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

Analysed at: Brd = STL Bridgend, Cov = STL Coventry, Mid = STL Midlands, Rea = STL Reading, Run = STL Runcorn, S = Subcontracted.

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: **07 May 2010**

Title:

Chemistry Operations Manager