



Enclosure (C) concerning method references referring to certificate of analysis 2014021806/1

Analysis	Method	Technique	Method reference
Dry matter	W0104	Gravimetry	In house method
Organic matter	W0109	Gravimetry	Cf. NEN 5754
Grainsize < 2 µm, (Lutum) DMA robot	W0171	Sedimentation	Equivalent to NEN 5753
TerrAttesT metals	W0423	ICP-MS	Cf. NEN-EN-ISO 17294-2
Mono aromatic CHC	W6331	GC-MS	TerrAttesT
Phenoles with GCMS	W6331	GC-MS	TerrAttesT
PAH 16 according EPA	W6331	GC-MS	TerrAttesT
Volatile halogenated CHC	W6331	GC-MS	TerrAttesT
Chlorobenzenes with GCMS	W6331	GC-MS	TerrAttesT
Chlorophenoles with GCMS	W6331	GC-MS	TerrAttesT
PCB with GCMS	W6331	GC-MS	TerrAttesT
Chloronitrobenzenes	W6331	GC-MS	TerrAttesT
Other chlorinated CHC	W6331	GC-MS	TerrAttesT
Chloropesticides with GCMS	W6331	GC-MS	TerrAttesT
Phosphorpesticides with GCMS	W6331	GC-MS	TerrAttesT
Nitrogenpesticides with GCMS	W6331	GC-MS	TerrAttesT
Other pesticides	W6331	GC-MS	TerrAttesT
Other organic polllutants	W6331	GC-MS	TerrAttesT
Phtalates with GCMS	W6331	GC-MS	TerrAttesT
TPH fractioned	W6128	GC-MS	TerrAttesT

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Informative Enclosure

According to article 5.8.3 and to upgrade the quality of the data, the ISO/IEC 17025 accredited laboratories are obliged to notice if a sample is suitable for performing the required analyses. It concerns topics as sample packaging, field preservation, transport and storage of samples, analysis of samples before the expiration of the term of preservation. From January 1st 2004 the laboratories work against the new criteria. Till January 1st 2006 you will be informed by this informative enclosure, as explained below. After January 1st 2006, these remarks concerning samples and analyses will be part of the entire certificate of analysis. In the transition period only, the parties involved agreed to use the information for optimising the processes.

Differences against the criteria are observed that may have influence on the accuracy of the data of samples mentioned below.

Analytico-#

The temperature of the samples received at the laboratory,
exceeded the limit.

7993052

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Nevin Traynor
 Lakeland Dairies Co-Op Society Ltd
 Bailieborough
 Co. Cavan
 REPUBLIC OF IRELAND

PO Number **None Supplied**



PR-14-AH-000069-01

Preliminary Certificate Of Analysis

Sample number	322-2014-00002034	Received on	26/02/2014
Your sample reference	TH3 26-2-14	Your sample code	None supplied

Test Code	Analyte	Result	Accreditation
AN01Q	Chloride (Cl)	<1 mg/l	EUDEWE:LG4
LS897	Chromium (Cr) VI	1.00 mg/kg dry matter	EUFRSA:
LS917	Cyanides total (NEN6655)	<0.5 mg/kg dry matter	EUFRSA:*
AN01C	Dry matter	83.2 % (w/w)	EUDEWE:LG4
AN01R	Sulphates	5 mg/l	EUDEWE:LG4

Comments

Terratest report added separately, please see attached report

Results to follow:

- Aluminium (Al) [RC0G9]
- Boron (B) [RC0FY]
- Dry Matter [RC021]
- Mineral oil [RC002]
- Moisture on soil [UD340]
- pH [UD330]
- Preparation of leachate 10:1 [S4] [AN071]
- Sulphur (S) [RC0G6]

This is a preliminary Certificate of Analysis and cannot be fully verified until all results have been validated



Reported validated by **Maxine Bryan, ASM on 10/03/2014**

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REPUBLIC OF IRELAND

PO Number **None Supplied**



PR-14-AH-000069-01

Page 2 of 2

Accreditation Key:

EUDEWE:LG4 DIN EN ISO/IEC 17025:2005 D-PL-14078-01-00 Eurofins Umwelt West GmbH (Wesseling)

EUFRSA: (Not accredited) Eurofins Analyses pour l'Environnement France (S1)

EUFRSA:▣ (Accreditation depends on matrices) Eurofins Analyses pour l'Environnement France (S1)

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Eurofins Ireland
Attention Conor Hynes
PO Box Dundalk

IRELAND

Certificate of analysis

Date: 03-05-2014

Please find enclosed the analytical results of the following analysis.

Certificate number/Version	2014021807/1
Your project number	322-2014
Your project name	
Your order number	
Samples received on	02-26-2014

This Certificate of Analysis may only be used in its entirety.

Soil samples will be stored for a period of 6 weeks and water samples for a period of 2 weeks after receipt of the samples at our laboratory. Without any additional request, samples will be disposed when the above periods have expired. If you require Analytico to store the samples for a longer period, please complete this page and return it to Analytico at least one week before the period is due to expire. The costs of prolonged storage periods may be found in our fees overview.

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Storage period:

Date:

Name:

Signature:

We trust that we have performed the order in accordance with your expectations. If you have any remaining questions concerning this Certificate of Analysis, please don't hesitate to contact our Customer Service.

Yours sincerely,

Eurofins Analytico B.V.



Ing. A. Veldhuizen
Laboratory Manager

Eurofins Analytico B.V.

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Certificate of analysis

Your project number	322-2014	Certificate number/Version	2014021807/1
Your project name		Start date	02-27-2014
Your order number		Report date	03-05-2014/10:18
Sampled by		Enclosure	A, C
Sample matrix	Soil; Soil, Sediment	Page	1/8

Analysis	Unit	1
TerrAttesT		
Characteristics		
Q Dry matter	% (w/w)	82.3
Q Organic matter	% (w/w) dm	4.0
Q Fraction < 2 µm (Clay)	% (w/w) dm	8.5
Metals		
Q Arsenic (As)	mg/kg dm	10
Q Antimony (Sb)	mg/kg dm	<3.0
Q Barium (Ba)	mg/kg dm	150
Q Beryllium (Be)	mg/kg dm	<1.0
Q Cadmium (Cd)	mg/kg dm	0.36
Q Chromium (Cr)	mg/kg dm	34
Q Cobalt (Co)	mg/kg dm	30
Q Copper (Cu)	mg/kg dm	32
Q Mercury (Hg)	mg/kg dm	0.18
Q Lead (Pb)	mg/kg dm	22
Q Molybdenum (Mo)	mg/kg dm	4.2
Q Nickel (Ni)	mg/kg dm	54
Q Selenium (Se)	mg/kg dm	<5.0
Q Tin (Sn)	mg/kg dm	<5.0
Q Vanadium (V)	mg/kg dm	47
Q Zinc (Zn)	mg/kg dm	80
Volatile Organic Hydrocarbons		
Q Benzene	mg/kg dm	<0.1
Q Ethylbenzene	mg/kg dm	<0.2
Q Toluene	mg/kg dm	<0.2
Q o-Xylene	mg/kg dm	<0.2
Q m,p-Xylene	mg/kg dm	<0.1
Q Xylenes (sum)	mg/kg dm	--
Q Styrene	mg/kg dm	<0.2

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No.	Sample description	Date sampling	Analytico-#
1	322-2014-00002034	26-Feb-2014	7993053

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 A: AP04 accredited operation
 S: AS3000 accredited operation

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Certificate of analysis

Your project number 322-2014
 Your project name
 Your order number

Certificate number/Version 2014021807/1
 Start date 02-27-2014
 Report date 03-05-2014/10:18
 Enclosure A, C
 Page 2/8

Sampled by
 Sample matrix Soil; Soil, Sediment

Analysis	Unit	1
Q 1,2,4-Trimethylbenzene	mg/kg dm	<0.05
Q 1,3,5-Trimethylbenzene	mg/kg dm	<0.05
Q n-Propylbenzene	mg/kg dm	<0.05
Q Isopropylbenzene	mg/kg dm	<0.05
Q n-Butylbenzene	mg/kg dm	<0.05
Q sec-butylbenzene	mg/kg dm	<0.05
Q tert-Butylbenzene	mg/kg dm	<0.05
Q p-Isopropyltoluene	mg/kg dm	<0.05
Phenols		
Q Phenol	mg/kg dm	<0.01
Q o-Cresol	mg/kg dm	<0.01
Q m-Cresol	mg/kg dm	<0.01
Q p-Cresol	mg/kg dm	<0.01
Q Cresols (sum)	mg/kg dm	--
Q 2,4-Dimethylphenol	mg/kg dm	<0.01
Q 2,5-Dimethylphenol	mg/kg dm	<0.01
Q 2,6-Dimethylphenol	mg/kg dm	<0.01
Q 3,4-Dimethylphenol	mg/kg dm	<0.01
Q o-Ethylphenol	mg/kg dm	<0.02
Q m-Ethylphenol	mg/kg dm	<0.01
Q Thymol	mg/kg dm	<0.01
Q 2,3/3,5-Dimethylphenol + 4-Ethylphenol	mg/kg dm	<0.01
Polycyclic Aromatic Hydrocarbons		
Q Naphtalene	mg/kg dm	<0.01
Q Acenaphtylene	mg/kg dm	<0.01
Q Acenaphtene	mg/kg dm	<0.01
Q Fluorene	mg/kg dm	<0.01
Q Phenanthrene	mg/kg dm	<0.01
Q Anthracene	mg/kg dm	<0.01
Q Fluoranthene	mg/kg dm	0.02
Q Pyrene	mg/kg dm	0.02

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No.	Sample description	Date sampling	Analytico-#
1	322-2014-00002034	26-Feb-2014	7993053

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Certificate of analysis

Your project number 322-2014
 Your project name
 Your order number

Certificate number/Version 2014021807/1
 Start date 02-27-2014
 Report date 03-05-2014/10:18
 Enclosure A,C
 Page 3/8

Sampled by
 Sample matrix Soil; Soil, Sediment

Analysis	Unit	1
Q Benzo(a)anthracene	mg/kg dm	0.01
Q Chrysene	mg/kg dm	0.02
Q Benzo(b)fluoranthene	mg/kg dm	0.02
Q Benzo(k)fluoranthene	mg/kg dm	<0.01
Q Benzo(a)pyrene	mg/kg dm	0.01
Q Dibenzo(ah)anthracene	mg/kg dm	<0.01
Q Benzo(ghi)perylene	mg/kg dm	0.01
Q Indeno(123cd)pyrene	mg/kg dm	0.02
Q PAH 10 VROM (sum)	mg/kg dm	0.09
Q PAH 16 EPA (sum)	mg/kg dm	0.12

Volatile halogenated Hydrocarbons

Q Tetrachloromethane	mg/kg dm	<0.05
Q 1,2-Dichloroethane	mg/kg dm	<0.1
Q 1,1,1-Trichloroethane	mg/kg dm	<0.05
Q 1,1,2-Trichloroethane	mg/kg dm	<0.05
Q Trichloroethanes (sum)	mg/kg dm	--
Q 1,1,1,2-Tetrachloroethane	mg/kg dm	<0.05
Q 1,1,2,2-tetrachloroethane	mg/kg dm	<0.05
Q Tetrachloroethanes (sum)	mg/kg dm	--
Q Trichloroethene	mg/kg dm	<0.2
Q Tetrachloroethene	mg/kg dm	<0.2
Q 1,2-Dichloropropane	mg/kg dm	<0.05
Q 1,3-Dichloropropane	mg/kg dm	<0.05
Q 1,2,3-Trichloropropane	mg/kg dm	<0.05
Q 1,1-Dichloropropene	mg/kg dm	<0.1
Q cis1,3-Dichloropropene	mg/kg dm	<0.05
Q trans1,3-Dichloropropene	mg/kg dm	<0.05
Q 1,3-Dichloropropenes (sum)	mg/kg dm	--
Q Dibromomethane	mg/kg dm	<0.05
Q 1,2-Dibromoethane	mg/kg dm	<0.05
Q Tribromomethane	mg/kg dm	<0.05

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No.	Sample description	Date sampling	Analytico-#
1	322-2014-00002034	26-Feb-2014	7993053

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Certificate of analysis

Your project number 322-2014
 Your project name
 Your order number

Certificate number/Version 2014021807/1
 Start date 02-27-2014
 Report date 03-05-2014/10:18
 Enclosure A,C
 Page 4/8

Sampled by
 Sample matrix Soil; Soil, Sediment

Analysis	Unit	1
Q Bromodichloromethane	mg/kg dm	<0.1
Q Dibromochloromethane	mg/kg dm	<0.05
Q 1,2-Dibromo-3-chloropropane	mg/kg dm	<0.05
Q Bromobenzene	mg/kg dm	<0.05
Chlorobenzenes		
Q Monochlorobenzene	mg/kg dm	<0.01
Q 1,2-Dichlorobenzene	mg/kg dm	<0.01
Q 1,3-Dichlorobenzene	mg/kg dm	<0.01
Q 1,4-Dichlorobenzene	mg/kg dm	0.01
Q Dichlorobenzenes (sum)	mg/kg dm	0.01
Q 1,2,3-Trichlorobenzene	mg/kg dm	<0.01
Q 1,2,4-Trichlorobenzene	mg/kg dm	<0.01
Q 1,3,5-Trichlorobenzene	mg/kg dm	<0.003
Q Trichlorobenzenes (sum)	mg/kg dm	--
Q 1,2,3,4-Tetrachlorobenzene	mg/kg dm	<0.003
Q 1245&1235 Tetrachlorobenzene	mg/kg dm	<0.002
Q Tetrachlorobenzenes (sum)	mg/kg dm	--
Q Pentachlorobenzene	mg/kg dm	<0.002
Q Hexachlorobenzene	mg/kg dm	<0.002
Chlorophenols		
Q o-Chlorophenol	mg/kg dm	<0.01
Q m-Chlorophenol	mg/kg dm	<0.01
Q p-Chlorophenol	mg/kg dm	<0.01
Q Monochlorophenols (sum)	mg/kg dm	--
Q 2,3-Dichlorophenol	mg/kg dm	<0.002
Q 2,4/2,5-Dichlorophenol	mg/kg dm	<0.001
Q 2,6-Dichlorophenol	mg/kg dm	<0.001
Q 3,4-Dichlorophenol	mg/kg dm	<0.002
Q 3,5-Dichlorophenol	mg/kg dm	<0.001
Q Dichlorophenols (sum)	mg/kg dm	--
Q 2,3,4-Trichlorophenol	mg/kg dm	<0.01

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Certificate of analysis

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Your project name		Start date	02-27-2014
Your order number		Report date	03-05-2014/10:18
Sampled by		Enclosure	A, C
Sample matrix	Soil; Soil, Sediment	Page	5/8

Analysis	Unit	1
Q 2,3,5-Trichlorophenol	mg/kg dm	<0.001
Q 2,3,6-Trichlorophenol	mg/kg dm	<0.001
Q 2,4,5-Trichlorophenol	mg/Kg dm	<0.001
Q 2,4,6-Trichlorophenol	mg/kg dm	<0.001
Q 3,4,5-Trichlorophenol	mg/kg dm	<0.002
Q Trichlorophenols (sum)	mg/kg dm	--
Q 2,3,4,5-Tetrachlorophenol	mg/kg dm	<0.002
Q 2,3,4,6 / 2,3,5,6-Tetrachlorophenol	mg/kg dm	<0.01
Q Tetrachlorophenols (sum)	mg/kg dm	--
Q Pentachlorophenol	mg/kg dm	0.001
Q 4-Chloro-3-methylphenol	mg/kg dm	<0.001
Polychlorinated Biphenyl (PCB)		
Q PCB 28	mg/kg dm	<0.002
Q PCB 52	mg/kg dm	<0.002
Q PCB 101	mg/kg dm	<0.002
Q PCB 118	mg/kg dm	<0.002
Q PCB 138	mg/kg dm	<0.005
Q PCB 153	mg/kg dm	<0.005
Q PCB 180	mg/kg dm	<0.002
Q PCB (6) (sum)	mg/kg dm	--
Q PCB (7) (sum)	mg/kg dm	--
Chloronitrobenzenes		
Q o/p-Chloronitrobenzene	mg/kg dm	<0.01
Q m-Chloronitrobenzene	mg/kg dm	<0.01
Q Monochloronitrobenzenes (sum)	mg/kg dm	--
Q 2,3+3,4-Dichloronitrobenzene	mg/kg dm	<0.01
Q 2,4-Dichloronitrobenzene	mg/kg dm	<0.02
Q 2,5-Dichloronitrobenzene	mg/kg dm	<0.01
Q 3,5-Dichloronitrobenzene	mg/kg dm	<0.02
Q Dichloronitrobenzenes (sum)	mg/kg dm	--

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No. Sample description	Date sampling	Analytico-#
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Your project name		Start date	02-27-2014
Your order number		Report date	03-05-2014/10:18
Sampled by		Enclosure	A, C
Sample matrix	Soil; Soil, Sediment	Page	6/8

Analysis	Unit	1
Miscellaneous Chlor. HCs		
Q 2-Chlorotoluene	mg/kg dm	<0.01
Q 4-Chlorotoluene	mg/kg dm	<0.01
Q Chlorotoluenes (sum)	mg/kg dm	--
Q 1-Chloronaphtalene	mg/kg dm	<0.005
Organic Chlorinated Pesticides		
Q 4,4 -DDE	mg/kg dm	<0.001
Q 2,4 -DDE	mg/kg dm	<0.001
Q 4,4 -DDT	mg/kg dm	<0.002
Q 4,4 -DDD + 2,4 -DDT	mg/kg dm	<0.001
Q 2,4 -DDD	mg/kg dm	<0.001
Q DDT/DDE/DDD (sum)	mg/kg dm	<0.002
Q Aldrin	mg/kg dm	<0.002
Q Dieldrin	mg/kg dm	<0.002
Q Endrin	mg/kg dm	<0.005
Q Drins (sum)	mg/kg dm	--
Q alfa-HCH	mg/kg dm	<0.05
Q beta-HCH	mg/kg dm	<0.005
Q gamma-HCH	mg/kg dm	<0.005
Q delta-HCH	mg/kg dm	<0.02
Q Sum 4 HCH-compounds	mg/kg dm	--
Q a-Endosulfan	mg/kg dm	<0.01
Q alfa-Endosulfansulphate	mg/kg dm	<0.02
Q a-Chlordan	mg/kg dm	<0.002
Q y-Chlordan	mg/kg dm	<0.002
Q Chlordans (sum)	mg/kg dm	--
Q Heptachlor	mg/kg dm	<0.002
Q Heptachloroepoxide	mg/kg dm	<0.005
Q Hexachlorobutadiene	mg/kg dm	<0.002
Q Isodrin	mg/kg dm	<0.005
Q Telodrin	mg/kg dm	<0.005

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No.	Sample description	Date sampling	Analytico-#
1	322-2014-00002034	26-Feb-2014	7993053

Q: Dutch Accreditation Council (RVA) accredited operation
 A: AP04 accredited operation
 S: AS3000 accredited operation

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BNP Paribas S.A. 227 9245 25
 VRT/BTW No. NL 8043.14.883.B01
 KvK No. 09088623
 IBAN: NL11BNPA0227924525
 BIC: BNPANL2A

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Certificate of analysis

Your project number	322-2014	Certificate number/Version	2014021807/1
Your project name		Start date	02-27-2014
Your order number		Report date	03-05-2014/10:18
Sampled by		Enclosure	A, C
Sample matrix	Soil; Soil, Sediment	Page	7/8

Analysis	Unit	1
Q Tedion	mg/kg dm	<0.005
Phosphor pesticides		
Q Azinphos-ethyl	mg/kg dm	<0.005
Q Azinphos-methyl	mg/kg dm	<0.005
Q Bromophos-ethyl	mg/kg dm	<0.02
Q Bromophos-methyl	mg/kg dm	<0.02
Q Chloropyriphos-ethyl	mg/kg dm	<0.01
Q Chloropyriphos-methyl	mg/kg dm	<0.01
Q Cumaphos	mg/kg dm	<0.005
Q Demeton-S/demeton-0-ethyl	mg/kg dm	<0.02
Demeton-S-methyl	mg/kg dm	<0.01
Demeton-0-Ethyl	mg/kg dm	<0.01
Q Diazinone	mg/kg dm	<0.005
Q Disulphotone	mg/kg dm	<0.02
Q Fenitrothion	mg/kg dm	<0.005
Q Fenthion	mg/kg dm	<0.002
Q Malathion	mg/kg dm	<0.005
Q Parathion-ethyl	mg/kg dm	<0.005
Q Parathion-methyl	mg/kg dm	<0.01
Q Pyrazophos	mg/kg dm	<0.005
Q Triazophos	mg/kg dm	<0.02
Nitrogen pesticides		
Q Ametryn	mg/kg dm	<0.01
Q Atrazine	mg/kg dm	<0.02
Q Cyanazine	mg/kg dm	<0.02
Q Desmetryn	mg/kg dm	<0.005
Q Prometryn	mg/kg dm	<0.02
Q Propazine	mg/kg dm	<0.02
Q Simazine	mg/kg dm	<0.02
Q Terbutylazine	mg/kg dm	<0.02
Q Terbutryn	mg/kg dm	<0.05

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No.	Sample description	Date sampling	Analytico-#
1	322-2014-00002034	26-Feb-2014	7993053

Q: Dutch Accreditation Council (RVA) accredited operation
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Certificate of analysis

Your project number	322-2014	Certificate number/Version	2014021807/1
Your project name		Start date	02-27-2014
Your order number		Report date	03-05-2014/10:18
Sampled by		Enclosure	A, C
Sample matrix	Soil; Soil, Sediment	Page	8/8

Analysis	Unit	1
Miscellaneous pesticides		
Q Bifenthrin	mg/kg dm	<0.005
Q Cypermethrin A, B, C and D	mg/kg dm	<0.05
Q Deltamethrin	mg/kg dm	<0.01
Q Permethrin A	mg/kg dm	<0.01
Q Propachlor	mg/kg dm	<0.02
Q Trifluralin	mg/kg dm	<0.005
Miscellaneous Organic compounds		
Q Biphenyl	mg/kg dm	<0.005
Q Nitrobenzene	mg/kg dm	<0.1
Q Dibenzofuran	mg/kg dm	<0.01
Phtalates		
Q Dimethylphtalate	mg/kg dm	<0.2
Q Diethylphtalate	mg/kg dm	<0.2
Q Diisobutylphtalate	mg/kg dm	<0.5
Q Di-n-butylphtalate	mg/kg dm	<0.5
Q Butylbenzylphtalate	mg/kg dm	<0.2
Q Bisethylhexylphtalate	mg/kg dm	<0.2
Q Di-n-octylphtalate	mg/kg dm	<0.20
Q Phtalates (sum)	mg/kg dm	--
Total Petroleum Hydrocarbons		
TPH (C10-C12)	mg/kg dm	<3.0
TPH (C12-C16)	mg/kg dm	<5.0
TPH (C16-C21)	mg/kg dm	<6.0
TPH (C21-C30)	mg/kg dm	22
TPH (C30-C35)	mg/kg dm	9.3
TPH (C35-C40)	mg/kg dm	<6.0
Q TPH (sum C10-C40)	mg/kg dm	<38

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No. Sample description	Date sampling	Analytico-#
1 322-2014-00002034	26-Feb-2014	7993053

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Initials
 Pr.coord.

FZ



**Enclosure (A) concerning subsample information referring to certificate of analysis 2014021807/1**

Page 1/1

Analytico-#	Drill-#	Description	From	To	Barcode	Sample description
7993053					G00009598	322-2014-00002034

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Enclosure (C) concerning method references referring to certificate of analysis 2014021807/1

Analysis	Method	Technique	Method reference
Dry matter	W0104	Gravimetry	In house method
Organic matter	W0109	Gravimetry	Cf. NEN 5754
Grainsize < 2 µm, (Lutum) DMA robot	W0171	Sedimentation	Equivalent to NEN 5753
TerrAttesT metals	W0423	ICP-MS	Cf. NEN-EN-ISO 17294-2
Mono aromatic CHC	W6331	GC-MS	TerrAttesT
Phenoles with GCMS	W6331	GC-MS	TerrAttesT
PAH 16 according EPA	W6331	GC-MS	TerrAttesT
Volatile halogenated CHC	W6331	GC-MS	TerrAttesT
Chlorobenzenes with GCMS	W6331	GC-MS	TerrAttesT
Chlorophenoles with GCMS	W6331	GC-MS	TerrAttesT
PCB with GCMS	W6331	GC-MS	TerrAttesT
Chloronitrobenzenes	W6331	GC-MS	TerrAttesT
Other chlorinated CHC	W6331	GC-MS	TerrAttesT
Chloropesticides with GCMS	W6331	GC-MS	TerrAttesT
Phosphorpesticides with GCMS	W6331	GC-MS	TerrAttesT
Nitrogenpesticides with GCMS	W6331	GC-MS	TerrAttesT
Other pesticides	W6331	GC-MS	TerrAttesT
Other organic pollutants	W6331	GC-MS	TerrAttesT
Phtalates with GCMS	W6331	GC-MS	TerrAttesT
TPH fractioned	W6128	GC-MS	TerrAttesT

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Informative Enclosure

According to article 5.8.3 and to upgrade the quality of the data, the ISO/IEC 17025 accredited laboratories are obliged to notice if a sample is suitable for performing the required analyses. It concerns topics as sample packaging, field preservation, transport and storage of samples, analysis of samples before the expiration of the term of preservation. From January 1st 2004 the laboratories work against the new criteria. Till January 1st 2006 you will be informed by this informative enclosure, as explained below. After January 1st 2006, these remarks concerning samples and analyses will be part of the entire certificate of analysis. In the transition period only, the parties involved agreed to use the information for optimising the processes.

Differences against the criteria are observed that may have influence on the accuracy of the data of samples mentioned below.

Analytico-#

The temperature of the samples received at the laboratory, exceeded the limit.

7993053

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ACC		TERRATEST 7.22 REPORTING LIMIT		ACC		TERRATEST 7.22 REPORTING LIMIT		ACC		TERRATEST 7.22 REPORTING LIMIT				
S	W	soil mg/kg d.w.	ground water µg/l	S	W	S	W	S	W	soil mg/kg d.w.	ground water µg/l			
		Characteristics								Pesticides				
Q				Q		1,1,2-Trichloroethane	0.05	0.1	Q					
Q		1		Q	Q	Trichloroethanes (sum)	Σ	Σ	Q	Q	4,4-DDT	0.001	0.01	
Q		2		Q	Q	1,1,1,2-Tetrachloroethane	0.05	0.1	Q	Q	2,4-DDD	0.001	0.01	
Q		0.5		Q	Q	1,1,1,2,2-Tetrachloroethane	0.05	0.1	Q	Q	4,4-DDT	0.002	0.02	
Q			2.12	Q	Q	Tetrachloroethanes (sum)	Σ	Σ	Q	Q	4,4-DDD(2,4-DD)	0.001	0.01	
Q			10	Q	Q	Trichlorobutene	0.2	0.1	Q	Q	2,4-DDD	0.001	0.01	
		Metals												
Q		3	4	Q	Q	Tetrachloroethene	0.2	0.1	Q	Q	DDT/DDD/DDD (sum)	Σ	0.002	0.02
Q	Q	3	5	Q	Q	2,2-Dichloropropane	0.05	0.1	Q	Q	Aldrin	0.002	0.02	
Q	Q	5	1	Q	Q	1,2-Dichloropropane	0.05	0.1	Q	Q	Dieldrin	0.002	0.02	
Q	Q	1	1	Q	Q	1,3-Dichloropropane	0.05	0.1	Q	Q	Endrin	0.002	0.02	
Q	Q	0.3	0.4	Q	Q	1,2,3-Trichloropropane	0.05	0.1	Q	Q	Drone (sum)	Σ	0.05	0.08
Q	Q	3	2	Q	Q	1,1-Dichloropropylene	0.1	0.1	Q	Q	alfa-HCH	0.005	0.07	
Q	Q	3	2	Q	Q	cis-1,3-Dichloropropylene	0.05	0.1	Q	Q	beta-HCH	0.005	0.1	
Q	Q	2	1	Q	Q	trans-1,3-Dichloropropylene	0.05	0.1	Q	Q	gamma-HCH	0.005	0.1	
Q	Q	3	3	Q	Q	1,3-Dichloropropylene (sum)	Σ	Σ	Q	Q	delta-HCH	0.02	0.04	
Q	Q	0.05	0.04	Q	Q	Bromomethane	-	0.1	Q	Q	HCH (sum)	Σ	Σ	
Q	Q	3	3	Q	Q	Bromochloromethane	-	0.1	Q	Q	Alfa-endosulfan	0.01	0.05	
Q	Q	1	2	Q	Q	Dibromomethane	0.05	0.1	Q	Q	Alfa-endosulfan sulfate	0.02	0.03	
Q	Q	2	2	Q	Q	1,2-Dibromoethane	0.05	0.1	Q	Q	Alfa-chlordane	0.002	0.01	
Q	Q	2	2	Q	Q	1,3-Dibromoethane	0.05	0.1	Q	Q	Gamma-endosulfan	0.002	0.01	
Q	Q	5	5	Q	Q	Tribromomethane (Bromofor)	0.05	0.1	Q	Q	Chlordanes (sum)	Σ	Σ	
Q	Q	5	5	Q	Q	Bromodichloromethane	0.1	0.1	Q	Q	Heptachlor	0.002	0.01	
Q	Q	2	2	Q	Q	Dibromochloromethane	0.05	0.1	Q	Q	Heptachlor epoxide	0.005	0.03	
Q	Q	10	5	Q	Q	1,2-Dibromo-3-chloropropane	0.05	0.1	Q	Q	Isodrin	0.005	0.1	
Q	Q			Q	Q	Bromobenzene	0.05	0.1	Q	Q	Toxachlorobutadiene	0.002	0.1	
		Aromatic compounds												
		Mono Aromatic Hydrocarbons												
Q	Q	0.1	0.1	Q	Q	Monochlorobenzene	0.01	0.05	Q	Q	beta-Dieldrin	0.005	0.07	
Q	Q	0.2	0.1	Q	Q	1,2-Dichlorobenzene	0.01	0.1	Q	Q	Phosphor pesticides			
Q	Q	0.2	0.1	Q	Q	1,3-Dichlorobenzene	0.01	0.1	Q	Q	Azinphos-ethyl	0.005	0.1	
Q	Q	0.2	0.1	Q	Q	1,4-Dichlorobenzene	0.01	0.1	Q	Q	Azinphos-methyl	0.005	0.07	
Q	Q	0.1	0.1	Q	Q	Dichlorobenzenes (sum)	Σ	Σ	Q	Q	Bromophos-ethyl	0.02	0.07	
Q	Q	Σ	Σ	Q	Q	1,2,3-Trichlorobenzene	0.01	0.1	Q	Q	Bromophos-methyl	0.02	0.06	
Q	Q	0.2	0.1	Q	Q	1,2,4-Trichlorobenzene	0.01	0.1	Q	Q	Chlorophos-ethyl	0.01	0.06	
Q	Q	0.05	0.1	Q	Q	1,3,5-Trichlorobenzene	0.002	0.01	Q	Q	Chlorophos-methyl	0.01	0.1	
Q	Q	0.05	0.1	Q	Q	Trichlorobenzenes (sum)	Σ	Σ	Q	Q	Cumaphos	0.005	0.02	
Q	Q	0.05	0.1	Q	Q	1,2,3,4-Tetrachlorobenzene	0.002	0.02	Q	Q	Demeton-S / Demeton-O (ethyl)	0.02	0.1	
Q	Q	0.05	0.1	Q	Q	1,2,3,5-Tetrachlorobenzene	0.002	0.02	Q	Q	Diazin	0.005	0.04	
Q	Q	0.05	0.1	Q	Q	Tetrachlorobenzenes (sum)	Σ	Σ	Q	Q	Dichlorvos	0.02	0.1	
Q	Q	0.05	0.1	Q	Q	Pentachlorobenzene	0.002	0.01	Q	Q	Disulfoton	0.02	0.04	
Q	Q	0.05	0.1	Q	Q	Hexachlorobenzene	0.002	0.03	Q	Q	Fenitrothion	0.005	0.1	
Q	Q	0.05	0.1	Q	Q				Q	Q	Fenithion	0.002	0.1	
		Phenols												
Q	Q	0.01	0.5	Q	Q	o-Chlorophenol	0.01	0.1	Q	Q	Malathion	0.005	0.1	
Q	Q	0.01	0.3	Q	Q	m-Chlorophenol	0.01	0.02	Q	Q	Parathion-ethyl	0.005	0.2	
Q	Q	0.01	0.3	Q	Q	p-Chlorophenol	0.01	0.02	Q	Q	Parathion-methyl	0.01	0.2	
Q	Q	0.01	0.2	Q	Q	Monochlorophenols (sum)	Σ	Σ	Q	Q	Pyrazophos	0.005	0.2	
Q	Q	Σ	Σ	Q	Q	2,3-Dichlorophenol	0.002	0.02	Q	Q	Triazophos	0.02	0.2	
Q	Q	0.01	0.02	Q	Q	2,4-Dichlorophenol	0.001	0.01	Q	Q				
Q	Q	0.01	0.02	Q	Q	2,5-Dichlorophenol	0.001	0.03	Q	Q	Nitrogen pesticides			
Q	Q	0.01	0.03	Q	Q	3,4-Dichlorophenol	0.002	0.02	Q	Q	Ametryn	0.01	0.1	
Q	Q	0.01	0.02	Q	Q	3,5-Dichlorophenol	0.001	0.03	Q	Q	Atrazine	0.02	0.08	
Q	Q	0.02	0.03	Q	Q	Dichlorophenols (sum)	Σ	Σ	Q	Q	Cyanazine	0.02	0.1	
Q	Q	0.01	0.02	Q	Q	2,3,4-Trichlorophenol	0.001	0.02	Q	Q	Desmetryn	0.005	0.1	
Q	Q	0.02	0.03	Q	Q	2,3,5-Trichlorophenol	0.001	0.02	Q	Q	Premetryn	0.002	0.1	
Q	Q	0.01	0.02	Q	Q	2,3,5,7-Tetrachlorophenol	0.001	0.02	Q	Q	Propazine	0.02	0.08	
Q	Q	0.01	0.01	Q	Q	2,3,6-Trichlorophenol	0.001	0.01	Q	Q	Simazine	0.02	0.2	
Q	Q	0.01	0.02	Q	Q	2,4,5-Trichlorophenol	0.001	0.05	Q	Q	Terbutylazine	0.02	0.06	
Q	Q	0.01	0.02	Q	Q	2,4,6-Trichlorophenol	0.001	0.05	Q	Q	Terbutylsine	0.02	0.1	
		PAHs												
Q	Q	0.01	0.4	Q	Q	3,4,5-Trichlorophenol	0.002	0.01	Q	Q	Miscellaneous pesticides			
Q	Q	0.01	0.04	Q	Q	Trichlorophenols (sum)	Σ	Σ	Q	Q	Bifenthrin	0.005	0.08	
Q	Q	0.01	0.1	Q	Q	2,3,4,5-Tetrachlorophenol	0.002	0.01	Q	Q	Carbaryl	0.01	0.1	
Q	Q	0.01	0.01	Q	Q	2,3,4,6,7-Tetrachlorophenol	0.01	0.02	Q	Q	Cypermethrin (A,B,C,D)	0.02	0.2	
Q	Q	0.01	0.02	Q	Q	Tetrachlorophenols (sum)	Σ	Σ	Q	Q	Deltamethrin	0.01	0.2	
Q	Q	0.01	0.01	Q	Q	Pentachlorophenol	0.001	0.01	Q	Q	Lindane	0.01	0.1	
Q	Q	0.01	0.02	Q	Q	4-Chloro-3-methylphenol	0.001	0.02	Q	Q				
Q	Q	0.01	0.06	Q	Q	PCB			Q	Q	Permethrin A		0.06	
Q	Q	0.01	0.04	Q	Q	PCB 28	0.002	0.01	Q	Q	Permethrin B		0.06	
Q	Q	0.01	0.02	Q	Q	PCB 52	0.002	0.01	Q	Q	Permethrin (sum A+B)	0.01	Σ	
Q	Q		0.06	Q	Q	PCB 101	0.002	0.01	Q	Q	Propachlor	0.02	0.02	
Q	Q	0.01	0.1	Q	Q	PCB 118	0.002	0.01	Q	Q	Trifluorin	0.005	0.02	
Q	Q	0.01	0.1	Q	Q	PCB 138	0.005	0.01	Q	Q				
Q	Q	0.01	0.1	Q	Q	PCB 153	0.005	0.01	Q	Q	Miscellaneous HCs			
Q	Q	0.01	0.1	Q	Q	PCB 180	0.002	0.01	Q	Q	Biphenyl	0.005	0.01	
Q	Q	0.01	0.08	Q	Q	PCB (sum 6)	Σ	Σ	Q	Q	Nitrobenzene	0.1	0.3	
Q	Q	0.01	0.06	Q	Q	PCB (sum 7)	Σ	Σ	Q	Q	Dibenzofurane	0.01	0.1	
Q	Q	Σ	Σ	Q	Q	Chloronitrobenzenes			Q	Q				
Q	Q			Q	Q	o,p-Chloronitrobenzene	0.01	0.2	Q	Q	Phthalates			
Q	Q			Q	Q	m-Chloronitrobenzene	0.01	0.2	Q	Q	Dimethylphthalate	0.2		
Q	Q			Q	Q	Monochloronitrobenzenes (sum)	Σ	Σ	Q	Q	Diethylphthalate	0.2		
Q	Q			Q	Q	2,3 / 3,4-Dichloronitrobenzene	0.01	0.1	Q	Q	Diisobutylphthalate	0.5		
Q	Q			Q	Q	2,3-Dichloronitrobenzene	0.02	0.1	Q	Q	Diethylphthalate	0.5		
Q	Q			Q	Q	2,4-Dichloronitrobenzene	0.02	0.1	Q	Q	Bis(2-ethylhexyl)phthalate	2		
Q	Q			Q	Q	2,5-Dichloronitrobenzene	0.01	0.1	Q	Q	Bis(methylhexyl)phthalate	5		
Q	Q			Q	Q	2,4-Dichloronitrobenzene	0.01	0.1	Q	Q	Di-n-octylphthalate	0.2		
Q	Q			Q	Q	3,5-Dichloronitrobenzene	0.02	0.06	Q	Q	Phthalates (sum)	Σ		
Q	Q			Q	Q	Dichloronitrobenzenes (sum)	Σ	Σ	Q	Q	Total Petroleum Hydrocarbons			
Q	Q			Q	Q				Q	Q	C10-C12	3	15	
Q	Q			Q	Q	Miscellaneous Chlor. HCs			Q	Q	C12-C16	5	15	
Q	Q			Q	Q	2-Chlorobutene	0.01	0.1	Q	Q	C16-C21	6	15	
Q	Q			Q	Q	4-Chlorobutene	0.01	0.1	Q	Q	C21-C30	12	15	
Q	Q			Q	Q	Chloroethylenes (sum)	Σ	Σ	Q	Q	C30-C35	6	15	
Q	Q			Q	Q	1-Chlorooxymethane	0.005	0.02	Q	Q	C35-C40	6	15	
Q	Q			Q	Q				Q	Q	19n (sum C10-C40)	38	100	

Nevin Traynor
 Lakeland Dairies Co-Op Society Ltd
 Bailieborough
 Co. Cavan
 REPUBLIC OF IRELAND

PO Number **None Supplied**



PR-14-AH-000070-01

Preliminary Certificate Of Analysis

Sample number	322-2014-00002035	Received on	26/02/2014
Your sample reference	TH4 26-2-14	Your sample code	None supplied

Test Code	Analyte	Result	Accreditation
AN01Q	Chloride (Cl)	<1 mg/l	EUDEWE:LG4
LS897	Chromium (Cr) VI	1.00 mg/kg dry matter	EUFRSA:
LS917	Cyanides total (NEN6655)	0.7 mg/kg dry matter	EUFRSA:□
AN01C	Dry matter	77.6 % (w/w)	EUDEWE:LG4
AN01R	Sulphates	2 mg/l	EUDEWE:LG4

Comments

Terratest report added separately, please see attached report

Results to follow:

- Aluminium (Al) [RC0G9]
- Boron (B) [RC0FY]
- Dry Matter [RC021]
- Mineral oil [RC002]
- Moisture on soil [UD340]
- pH [UD330]
- Preparation of leachate 10:1 [S4] [AN071]
- Sulphur (S) [RC0G6]

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Reported validated by **Maxine Bryan, ASM** on 10/03/2014

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PR-14-AH-000070-01

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Accreditation Key:

EUDEWE:LG4 DIN EN ISO/IEC 17025:2005 D-PL-14078-01-00 Eurofins Umwelt West GmbH (Wesseling)
EUFRSA: (Not accredited) Eurofins Analyses pour l'Environnement France (S1)
EUFRSA: (Accreditation depends on matrices) Eurofins Analyses pour l'Environnement France (S1)

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Your sample reference	TH4 26-2-14	Your sample code	None supplied

Test Code	Analyte	Result	Accreditation
AN01Q	Chloride (Cl)	<1 mg/l	EUDEWE:LG4
LS897	Chromium (Cr) VI	1.00 mg/kg dry matter	EUFRSA:
LS917	Cyanides total (NEN6655)	0.7 mg/kg dry matter	EUFRSA:Ⓜ
AN01C	Dry matter	77.6 % (w/w)	EUDEWE:LG4
AN01R	Sulphates	2 mg/l	EUDEWE:LG4

Comments

Terratest report added separately, please see attached report

Results to follow:

- Aluminium (Al) [RC0G9]
- Boron (B) [RC0FY]
- Dry Matter [RC021]
- Mineral oil [RC002]
- Moisture on soil [UD340]
- pH [UD330]
- Preparation of leachate 10:1 [S4] [AN071]
- Sulphur (S) [RC0G6]

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Eurofins Ireland
Attention Conor Hynes
PO Box Dundalk

IRELAND

Certificate of analysis

Date: 03-05-2014

Please find enclosed the analytical results of the following analysis.

Certificate number/Version	2014021808/1
Your project number	322-2014
Your project name	
Your order number	
Samples received on	02-26-2014

This Certificate of Analysis may only be used in its entirety.

Soil samples will be stored for a period of 6 weeks and water samples for a period of 2 weeks after receipt of the samples at our laboratory. Without any additional request, samples will be disposed when the above periods have expired. If you require Analytico to store the samples for a longer period, please complete this page and return it to Analytico at least one week before the period is due to expire. The costs of prolonged storage periods may be found in our fees overview.

Storage period:

Date:

Name:

Signature:

We trust that we have performed the order in accordance with your expectations. If you have any remaining questions concerning this Certificate of Analysis, please don't hesitate to contact our Customer Service.

Yours sincerely,

Eurofins Analytico B.V.



Ing. A. Veldhuizen
Laboratory Manager

Eurofins Analytico B.V.

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Certificate of analysis

Your project number 322-2014
 Your project name
 Your order number

Certificate number/Version 2014021808/1
 Start date 02-27-2014
 Report date 03-05-2014/10:18
 Enclosure A, C
 Page 1/8

Sampled by
 Sample matrix Soil; Soil, Sediment

Analysis	Unit	1
TerrAttesT		
Characteristics		
Q Dry matter	% (w/w)	71.2
Q Organic matter	% (w/w) dm	10.5
Q Fraction < 2 µm (Clay)	% (w/w) dm	18.1
Metals		
Q Arsenic (As)	mg/kg dm	16
Q Antimony (Sb)	mg/kg dm	<3.0
Q Barium (Ba)	mg/kg dm	120
Q Beryllium (Be)	mg/kg dm	<1.0
Q Cadmium (Cd)	mg/kg dm	<0.30
Q Chromium (Cr)	mg/kg dm	24
Q Cobalt (Co)	mg/kg dm	21
Q Copper (Cu)	mg/kg dm	54
Q Mercury (Hg)	mg/kg dm	0.29
Q Lead (Pb)	mg/kg dm	49
Q Molybdenum (Mo)	mg/kg dm	2.3
Q Nickel (Ni)	mg/kg dm	44
Q Selenium (Se)	mg/kg dm	<5.0
Q Tin (Sn)	mg/kg dm	<5.0
Q Vanadium (V)	mg/kg dm	86
Q Zinc (Zn)	mg/kg dm	82
Volatile Organic Hydrocarbons		
Q Benzene	mg/kg dm	<0.1
Q Ethylbenzene	mg/kg dm	<0.2
Q Toluene	mg/kg dm	<0.2
Q o-Xylene	mg/kg dm	<0.2
Q m,p-Xylene	mg/kg dm	<0.1
Q Xylenes (sum)	mg/kg dm	--
Q Styrene	mg/kg dm	<0.2

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No.	Sample description	Date sampling	Analytico-#
1	322-2014-00002035	26-Feb-2014	7993054

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 A: AP04 accredited operation
 S: AS3000 accredited operation

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Certificate of analysis

Your project number 322-2014
 Your project name
 Your order number

Certificate number/Version 2014021808/1
 Start date 02-27-2014
 Report date 03-05-2014/10:18
 Enclosure A, C
 Page 2/8

Sampled by
 Sample matrix Soil; Soil, Sediment

Analysis	Unit	1
Q 1,2,4-Trimethylbenzene	mg/kg dm	<0.05
Q 1,3,5-Trimethylbenzene	mg/kg dm	<0.05
Q n-Propylbenzene	mg/kg dm	<0.05
Q Isopropylbenzene	mg/kg dm	<0.05
Q n-Butylbenzene	mg/kg dm	<0.05
Q sec-butylbenzene	mg/kg dm	<0.05
Q tert-Butylbenzene	mg/kg dm	<0.05
Q p-Isopropyltoluene	mg/kg dm	<0.05
Phenols		
Q Phenol	mg/kg dm	<0.01
Q o-Cresol	mg/kg dm	<0.01
Q m-Cresol	mg/kg dm	<0.01
Q p-Cresol	mg/kg dm	<0.01
Q Cresols (sum)	mg/kg dm	--
Q 2,4-Dimethylphenol	mg/kg dm	<0.01
Q 2,5-Dimethylphenol	mg/kg dm	<0.01
Q 2,6-Dimethylphenol	mg/kg dm	<0.01
Q 3,4-Dimethylphenol	mg/kg dm	<0.01
Q o-Ethylphenol	mg/kg dm	<0.02
Q m-Ethylphenol	mg/kg dm	<0.01
Q Thymol	mg/kg dm	<0.01
Q 2,3/3,5-Dimethylphenol + 4-Ethylphenol	mg/kg dm	<0.01
Polycyclic Aromatic Hydrocarbons		
Q Naphtalene	mg/kg dm	<0.01
Q Acenaphtylene	mg/kg dm	<0.01
Q Acenaphtene	mg/kg dm	<0.01
Q Fluorene	mg/kg dm	<0.01
Q Phenanthrene	mg/kg dm	<0.01
Q Anthracene	mg/kg dm	<0.01
Q Fluoranthene	mg/kg dm	0.01
Q Pyrene	mg/kg dm	<0.01

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No.	Sample description	Date sampling	Analytico-#
1	322-2014-00002035	26-Feb-2014	7993054

Q: Dutch Accreditation Council (RVA) accredited operation
 A: AP04 accredited operation
 S: AS3000 accredited operation

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Certificate of analysis

Your project number 322-2014
 Your project name
 Your order number

Certificate number/Version 2014021808/1
 Start date 02-27-2014
 Report date 03-05-2014/10:18
 Enclosure A, C
 Page 3/8

Sampled by
 Sample matrix Soil; Soil, Sediment

Analysis	Unit	1
Q Benzo(a)anthracene	mg/kg dm	<0.01
Q Chrysene	mg/kg dm	0.01
Q Benzo(b)fluoranthene	mg/kg dm	0.01
Q Benzo(k)fluoranthene	mg/kg dm	<0.01
Q Benzo(a)pyrene	mg/kg dm	<0.01
Q Dibenzo(ah)anthracene	mg/kg dm	<0.01
Q Benzo(ghi)perylene	mg/kg dm	<0.01
Q Indeno(123cd)pyrene	mg/kg dm	<0.01
Q PAH 10 VROM (sum)	mg/kg dm	0.02
Q PAH 16 EPA (sum)	mg/kg dm	0.03

Volatile halogenated Hydrocarbons

Q Tetrachloromethane	mg/kg dm	<0.05
Q 1,2-Dichloroethane	mg/kg dm	0.01
Q 1,1,1-Trichloroethane	mg/kg dm	0.05
Q 1,1,2-Trichloroethane	mg/kg dm	<0.05
Q Trichloroethanes (sum)	mg/kg dm	--
Q 1,1,1,2-Tetrachloroethane	mg/kg dm	<0.05
Q 1,1,2,2-tetrachloroethane	mg/kg dm	<0.05
Q Tetrachloroethanes (sum)	mg/kg dm	--
Q Trichloroethene	mg/kg dm	<0.2
Q Tetrachloroethene	mg/kg dm	<0.2
Q 1,2-Dichloropropane	mg/kg dm	<0.05
Q 1,3-Dichloropropane	mg/kg dm	<0.05
Q 1,2,3-Trichloropropane	mg/kg dm	<0.05
Q 1,1-Dichloropropene	mg/kg dm	<0.1
Q cis1,3-Dichloropropene	mg/kg dm	<0.05
Q trans1,3-Dichloropropene	mg/kg dm	<0.05
Q 1,3-Dichloropropenes (sum)	mg/kg dm	--
Q Dibromomethane	mg/kg dm	<0.05
Q 1,2-Dibromoethane	mg/kg dm	<0.05
Q Tribromomethane	mg/kg dm	<0.05

No.	Sample description	Date sampling	Analytico-#
1	322-2014-00002035	26-Feb-2014	7993054

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Certificate of analysis

Your project number 322-2014
 Your project name
 Your order number

Certificate number/Version 2014021808/1
 Start date 02-27-2014
 Report date 03-05-2014/10:18
 Enclosure A, C
 Page 4/8

Sampled by
 Sample matrix Soil; Soil, Sediment

Analysis	Unit	1
Q Bromodichloromethane	mg/kg dm	<0.1
Q Dibromochloromethane	mg/kg dm	<0.05
Q 1,2-Dibromo-3-chloropropane	mg/kg dm	<0.05
Q Bromobenzene	mg/kg dm	<0.05
Chlorobenzenes		
Q Monochlorobenzene	mg/kg dm	<0.01
Q 1,2-Dichlorobenzene	mg/kg dm	<0.01
Q 1,3-Dichlorobenzene	mg/kg dm	<0.01
Q 1,4-Dichlorobenzene	mg/kg dm	<0.01
Q Dichlorobenzenes (sum)	mg/kg dm	--
Q 1,2,3-Trichlorobenzene	mg/kg dm	<0.01
Q 1,2,4-Trichlorobenzene	mg/kg dm	<0.01
Q 1,3,5-Trichlorobenzene	mg/kg dm	<0.005
Q Trichlorobenzenes (sum)	mg/kg dm	--
Q 1,2,3,4-Tetrachlorobenzene	mg/kg dm	<0.003
Q 1245&1235 Tetrachlorobenzene	mg/kg dm	<0.002
Q Tetrachlorobenzenes (sum)	mg/kg dm	--
Q Pentachlorobenzene	mg/kg dm	<0.002
Q Hexachlorobenzene	mg/kg dm	<0.002
Chlorophenols		
Q o-Chlorophenol	mg/kg dm	<0.01
Q m-Chlorophenol	mg/kg dm	<0.01
Q p-Chlorophenol	mg/kg dm	<0.01
Q Monochlorophenols (sum)	mg/kg dm	--
Q 2,3-Dichlorophenol	mg/kg dm	<0.002
Q 2,4/2,5-Dichlorophenol	mg/kg dm	<0.001
Q 2,6-Dichlorophenol	mg/kg dm	<0.001
Q 3,4-Dichlorophenol	mg/kg dm	<0.002
Q 3,5-Dichlorophenol	mg/kg dm	<0.001
Q Dichlorophenols (sum)	mg/kg dm	--
Q 2,3,4-Trichlorophenol	mg/kg dm	<0.01

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No.	Sample description	Date sampling	Analytico-#
1	322-2014-00002035	26-Feb-2014	7993054

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Certificate of analysis

Your project number 322-2014
 Your project name
 Your order number

Certificate number/Version 2014021808/1
 Start date 02-27-2014
 Report date 03-05-2014/10:18
 Enclosure A, C
 Page 5/8

Sampled by
 Sample matrix Soil; Soil, Sediment

Analysis	Unit	1
Q 2,3,5-Trichlorophenol	mg/kg dm	<0.001
Q 2,3,6-Trichlorophenol	mg/kg dm	<0.001
Q 2,4,5-Trichlorophenol	mg/Kg dm	<0.001
Q 2,4,6-Trichlorophenol	mg/kg dm	<0.001
Q 3,4,5-Trichlorophenol	mg/kg dm	<0.002
Q Trichlorophenols (sum)	mg/kg dm	--
Q 2,3,4,5-Tetrachlorophenol	mg/kg dm	<0.002
Q 2,3,4,6 / 2,3,5,6-Tetrachlorophenol	mg/kg dm	<0.01
Q Tetrachlorophenols (sum)	mg/kg dm	--
Q Pentachlorophenol	mg/kg dm	<0.001
Q 4-Chloro-3-methylphenol	mg/kg dm	<0.001
Polychlorinated Biphenyl (PCB)		
Q PCB 28	mg/kg dm	<0.002
Q PCB 52	mg/kg dm	<0.002
Q PCB 101	mg/kg dm	<0.002
Q PCB 118	mg/kg dm	<0.002
Q PCB 138	mg/kg dm	<0.005
Q PCB 153	mg/kg dm	<0.005
Q PCB 180	mg/kg dm	<0.002
Q PCB (6) (sum)	mg/kg dm	--
Q PCB (7) (sum)	mg/kg dm	--
Chloronitrobenzenes		
Q o/p-Chloronitrobenzene	mg/kg dm	<0.01
Q m-Chloronitrobenzene	mg/kg dm	<0.01
Q Monochloronitrobenzenes (sum)	mg/kg dm	--
Q 2,3+3,4-Dichloronitrobenzene	mg/kg dm	<0.01
Q 2,4-Dichloronitrobenzene	mg/kg dm	<0.02
Q 2,5-Dichloronitrobenzene	mg/kg dm	<0.01
Q 3,5-Dichloronitrobenzene	mg/kg dm	<0.02
Q Dichloronitrobenzenes (sum)	mg/kg dm	--

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No.	Sample description	Date sampling	Analytico-#
1	322-2014-00002035	26-Feb-2014	7993054

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Certificate of analysis

Your project number 322-2014
 Your project name
 Your order number

Certificate number/Version 2014021808/1
 Start date 02-27-2014
 Report date 03-05-2014/10:18
 Enclosure A, C
 Page 6/8

Sampled by
 Sample matrix Soil; Soil, Sediment

Analysis	Unit	1
Miscellaneous Chlor. HCs		
Q 2-Chlorotoluene	mg/kg dm	<0.01
Q 4-Chlorotoluene	mg/kg dm	<0.01
Q Chlorotoluenes (sum)	mg/kg dm	--
Q 1-Chloronaphtalene	mg/kg dm	<0.005
Organic Chlorinated Pesticides		
Q 4,4 -DDE	mg/kg dm	<0.001
Q 2,4 -DDE	mg/kg dm	<0.001
Q 4,4 -DDT	mg/kg dm	<0.002
Q 4,4 -DDD + 2,4 -DDT	mg/kg dm	<0.001
Q 2,4 -DDD	mg/kg dm	<0.001
Q DDT/DDE/DDD (sum)	mg/kg dm	<0.002
Q Aldrin	mg/kg dm	<0.002
Q Dieldrin	mg/kg dm	<0.002
Q Endrin	mg/kg dm	<0.005
Q Drins (sum)	mg/kg dm	--
Q alfa-HCH	mg/kg dm	<0.05
Q beta-HCH	mg/kg dm	<0.005
Q gamma-HCH	mg/kg dm	<0.005
Q delta-HCH	mg/kg dm	<0.02
Q Sum 4 HCH-compounds	mg/kg dm	--
Q α-Endosulfan	mg/kg dm	<0.01
Q alfa-Endosulfansulphate	mg/kg dm	<0.02
Q α-Chlordan	mg/kg dm	<0.002
Q γ-Chlordan	mg/kg dm	<0.002
Q Chlordans (sum)	mg/kg dm	--
Q Heptachlor	mg/kg dm	<0.002
Q Heptachloroepoxide	mg/kg dm	<0.005
Q Hexachlorobutadiene	mg/kg dm	<0.002
Q Isodrin	mg/kg dm	<0.005
Q Telodrin	mg/kg dm	<0.005

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No.	Sample description	Date sampling	Analytico-#
1	322-2014-00002035	26-Feb-2014	7993054

Q: Dutch Accreditation Council (RVA) accredited operation
 R: AP04 accredited operation
 S: AS3000 accredited operation

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 KvK No. 09088623
 IBAN: NL71BNPA0227924525
 BIC: BNPANL2A

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Certificate of analysis

Your project number 322-2014
 Your project name
 Your order number

Certificate number/Version 2014021808/1
 Start date 02-27-2014
 Report date 03-05-2014/10:18
 Enclosure A, C
 Page 7/8

Sampled by
 Sample matrix Soil; Soil, Sediment

Analysis	Unit	1
Q Tedion	mg/kg dm	<0.005
Phosphor pesticides		
Q Azinphos-ethyl	mg/kg dm	<0.005
Q Azinphos-methyl	mg/kg dm	<0.005
Q Bromophos-ethyl	mg/kg dm	<0.02
Q Bromophos-methyl	mg/kg dm	<0.02
Q Chloropyriphos-ethyl	mg/kg dm	<0.01
Q Chloropyriphos-methyl	mg/kg dm	<0.01
Q Cumaphos	mg/kg dm	<0.005
Q Demeton-S/demeton-0-ethyl	mg/kg dm	<0.02
Demeton-S-methyl	mg/kg dm	<0.01
Demeton-0-Ethyl	mg/kg dm	<0.01
Q Diazinone	mg/kg dm	<0.005
Q Disulphotone	mg/kg dm	<0.02
Q Fenitrothion	mg/kg dm	<0.005
Q Fenthion	mg/kg dm	<0.002
Q Malathion	mg/kg dm	<0.005
Q Parathion-ethyl	mg/kg dm	<0.005
Q Parathion-methyl	mg/kg dm	<0.01
Q Pyrazophos	mg/kg dm	<0.005
Q Triazophos	mg/kg dm	<0.02
Nitrogen pesticides		
Q Ametryn	mg/kg dm	<0.01
Q Atrazine	mg/kg dm	<0.02
Q Cyanazine	mg/kg dm	<0.02
Q Desmetryn	mg/kg dm	<0.005
Q Prometryn	mg/kg dm	<0.02
Q Propazine	mg/kg dm	<0.02
Q Simazine	mg/kg dm	<0.02
Q Terbutylazine	mg/kg dm	<0.02
Q Terbutryn	mg/kg dm	<0.05

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No.	Sample description	Date sampling	Analytico-#
1	322-2014-00002035	26-Feb-2014	7993054

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Certificate of analysis

Your project number 322-2014
 Your project name
 Your order number
 Sampled by
 Sample matrix Soil; Soil, Sediment

Certificate number/Version 2014021808/1
 Start date 02-27-2014
 Report date 03-05-2014/10:18
 Enclosure A, C
 Page 8/8

Analysis	Unit	1
Miscellaneous pesticides		
Q Bifenthrin	mg/kg dm	<0.005
Q Cypermethrin A, B, C and D	mg/kg dm	<0.05
Q Deltamethrin	mg/kg dm	<0.01
Q Permethrin A	mg/kg dm	<0.01
Q Propachlor	mg/kg dm	<0.02
Q Trifluralin	mg/kg dm	<0.005
Miscellaneous Organic compounds		
Q Biphenyl	mg/kg dm	<0.005
Q Nitrobenzene	mg/kg dm	<0.1
Q Dibenzofurane	mg/kg dm	<0.01
Phtalates		
Q Dimethylphtalate	mg/kg dm	<0.2
Q Diethylphtalate	mg/kg dm	<0.2
Q Diisobutylphtalate	mg/kg dm	<0.5
Q Di-n-butylphtalate	mg/kg dm	<0.5
Q Butylbenzylphtalate	mg/kg dm	<0.2
Q Bisethylhexylphtalate	mg/kg dm	<0.2
Q Di-n-octylphtalate	mg/kg dm	<0.20
Q Phtalates (sum)	mg/kg dm	--
Total Petroleum Hydrocarbons		
TPH (C10-C12)	mg/kg dm	<3.0
TPH (C12-C16)	mg/kg dm	<5.0
TPH (C16-C21)	mg/kg dm	<6.0
TPH (C21-C30)	mg/kg dm	<12
TPH (C30-C35)	mg/kg dm	<6.0
TPH (C35-C40)	mg/kg dm	<6.0
Q TPH (sum C10-C40)	mg/kg dm	<38

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No.	Sample description	Date sampling	Analytico-#
1	322-2014-00002035	26-Feb-2014	7993054

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Initials
 Pr.coord.

FZ





Enclosure (A) concerning subsample information referring to certificate of analysis 2014021808/1

Page 1/1

Analytico-#	Drill-#	Description	From	To	Barcode	Sample description
7993054					G00009594	322-2014-00002035

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Enclosure (C) concerning method references referring to certificate of analysis 2014021808/1

Analysis	Method	Technique	Method reference
Dry matter	W0104	Gravimetry	In house method
Organic matter	W0109	Gravimetry	Cf. NEN 5754
Grainsize < 2 µm, (Lutum) DMA robot	W0171	Sedimentation	Equivalent to NEN 5753
TerrAttesT metals	W0423	ICP-MS	Cf. NEN-EN-ISO 17294-2
Mono aromatic CHC	W6331	GC-MS	TerrAttesT
Phenoles with GCMS	W6331	GC-MS	TerrAttesT
PAH 16 according EPA	W6331	GC-MS	TerrAttesT
Volatile halogenated CHC	W6331	GC-MS	TerrAttesT
Chlorobenzenes with GCMS	W6331	GC-MS	TerrAttesT
Chlorophenoles with GCMS	W6331	GC-MS	TerrAttesT
PCB with GCMS	W6331	GC-MS	TerrAttesT
Chloronitrobenzenes	W6331	GC-MS	TerrAttesT
Other chlorinated CHC	W6331	GC-MS	TerrAttesT
Chloropesticides with GCMS	W6331	GC-MS	TerrAttesT
Phosphorpesticides with GCMS	W6331	GC-MS	TerrAttesT
Nitrogenpesticides with GCMS	W6331	GC-MS	TerrAttesT
Other pesticides	W6331	GC-MS	TerrAttesT
Other organic pollutants	W6331	GC-MS	TerrAttesT
Phtalates with GCMS	W6331	GC-MS	TerrAttesT
TPH fractioned	W6128	GC-MS	TerrAttesT

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Informative Enclosure

According to article 5.8.3 and to upgrade the quality of the data, the ISO/IEC 17025 accredited laboratories are obliged to notice if a sample is suitable for performing the required analyses. It concerns topics as sample packaging, field preservation, transport and storage of samples, analysis of samples before the expiration of the term of preservation. From January 1st 2004 the laboratories work against the new criteria. Till January 1st 2006 you will be informed by this informative enclosure, as explained below. After January 1st 2006, these remarks concerning samples and analyses will be part of the entire certificate of analysis. In the transition period only, the parties involved agreed to use the information for optimising the processes.

Differences against the criteria are observed that may have influence on the accuracy of the data of samples mentioned below.

Analytico-#

The temperature of the samples received at the laboratory,
exceeded the limit.

7993054

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ACC.		TERRATEST 7.22 REPORTING LIMIT		ACC.		TERRATEST 7.22 REPORTING LIMIT		ACC.		TERRATEST 7.22 REPORTING LIMIT	
S	W	soil mg/kg d.w.	ground water µg/l	S	W	soil mg/kg d.w.	ground water µg/l	S	W	soil mg/kg d.w.	ground water µg/l
Characteristics											
Q	Q	Dry weight (% n/m)	1								
Q	Q	Clay content (% n/m)	2								
Q	Q	Organic matter	0.5								
Q	Q	pH		2-12							
Q	Q	Conductivity (mS/m)		10							
Metals											
Q	Q	Arsenic	3	4							
Q	Q	Antimony	3	5							
Q	Q	Barium	5	1							
Q	Q	Beryllium	1	1							
Q	Q	Cadmium	0.3	0.4							
Q	Q	Chromium	3	2							
Q	Q	Cobalt	2	1							
Q	Q	Copper	3	3							
Q	Q	Mercury	0.05	0.04							
Q	Q	Lead	3	3							
Q	Q	Molybdenum	1	2							
Q	Q	Nickel	2	2							
Q	Q	Selenium	5	5							
Q	Q	Ti	5	5							
Q	Q	Vanadium	2	2							
Q	Q	Zinc	10	5							
Aromatic compounds											
Mono Aromatic Hydrocarbons											
Q	Q	Benzene	0.1	0.1	Q	Q	Chlorinated Benzenes				
Q	Q	Ethylbenzene	0.2	0.1	Q	Q	Mono-chlorobenzene	0.01	0.05		
Q	Q	Toluene	0.2	0.1	Q	Q	1,2-Dichlorobenzene	0.01	0.1		
Q	Q	o-Xylene	0.2	0.1	Q	Q	1,3-Dichlorobenzene	0.01	0.1	Q	Q
Q	Q	m,p-Xylene	0.1	0.1	Q	Q	1,4-Dichlorobenzene	0.01	0.1	Q	Q
Q	Q	Xylenes (sum)	Σ	Σ	Q	Q	Dichlorobenzenes (sum)	Σ	Σ	Q	Q
Q	Q	Styrene	0.2	0.1	Q	Q	1,2,3-Trichlorobenzene	0.01	0.1	Q	Q
Q	Q	1,2,4-Trimethylbenzene	0.05	0.1	Q	Q	1,2,4-Trichlorobenzene	0.01	0.1	Q	Q
Q	Q	1,3,5-Trimethylbenzene	0.05	0.1	Q	Q	1,3,5-Trichlorobenzene	0.003	0.01	Q	Q
Q	Q	n-Propylbenzene	0.05	0.1	Q	Q	Trichlorobenzenes (sum)	Σ	Σ	Q	Q
Q	Q	isopropylbenzene	0.05	0.1	Q	Q	1,2,3,4-Tetrachlorobenzene	0.003	0.02	Q	Q
Q	Q	n-Butylbenzene	0.05	0.1	Q	Q	1,2,3,5/1,2,4,5-Tetrachlorobenzene	0.002	0.02	Q	Q
Q	Q	sec-Butylbenzene	0.05	0.1	Q	Q	Tetrachlorobenzenes (sum)	Σ	Σ	Q	Q
Q	Q	tert-Butylbenzene	0.05	0.1	Q	Q	1,2,3,4-Trichlorobenzene	0.002	0.01	Q	Q
Q	Q	p-isopropyltoluene	0.05	0.1	Q	Q	Pentachlorobenzene	0.002	0.01	Q	Q
Phenols											
Q	Q	Phenol	0.01	0.5	Q	Q	Hexachlorobenzene	0.002	0.03	Q	Q
Q	Q	o-Cresol	0.01	0.3	Q	Q	Chlorinated Phenols				
Q	Q	m-Cresol	0.01	0.3	Q	Q	o-Chlorophenol	0.01	0.1	Q	Q
Q	Q	p-Cresol	0.01	0.2	Q	Q	m-Chlorophenol	0.01	0.02	Q	Q
Q	Q	Cresoles (sum)	Σ	Σ	Q	Q	p-Chlorophenol	0.01	0.02	Q	Q
Q	Q	2,4-Dimethylphenol	0.01	0.02	Q	Q	Mono-chlorophenols (sum)	Σ	Σ	Q	Q
Q	Q	2,6-Dimethylphenol	0.01	0.02	Q	Q	2,3-Dichlorophenol	0.002	0.02	Q	Q
Q	Q	2,6-Dimethylphenol	0.01	0.03	Q	Q	2,4,5-Dichlorophenol	0.001	0.01	Q	Q
Q	Q	3,4-Dimethylphenol	0.01	0.02	Q	Q	2,6-Dichlorophenol	0.001	0.02	Q	Q
Q	Q	4-Ethylphenol	0.02	0.03	Q	Q	3,4-Dichlorophenol	0.001	0.03	Q	Q
Q	Q	m-Ethylphenol	0.01	0.02	Q	Q	Dichlorophenols (sum)	Σ	Σ	Q	Q
Q	Q	Thymol	0.01	0.01	Q	Q	2,3,4-Trichlorophenol	0.01	0.02	Q	Q
Q	Q	4-Ethyl/2,3 : 3,5 Dimethylphenol	0.01	0.02	Q	Q	2,3,5-Trichlorophenol	0.001	0.02	Q	Q
PAHs											
Q	Q	Naphthalene	0.01	0.4	Q	Q	2,3,6-Trichlorophenol	0.001	0.01	Q	Q
Q	Q	Acenaphthylene	0.01	0.04	Q	Q	2,3,6-Trichlorophenol	0.001	0.01	Q	Q
Q	Q	Acenaphthene	0.01	0.1	Q	Q	2,4,5-Trichlorophenol	0.001	0.01	Q	Q
Q	Q	Fluorene	0.01	0.01	Q	Q	2,4,6-Trichlorophenol	0.001	0.05	Q	Q
Q	Q	Phenanthrene	0.01	0.02	Q	Q	3,4,5-Trichlorophenol	0.002	0.01	Q	Q
Q	Q	Anthracene	0.01	0.01	Q	Q	Trichlorophenols (sum)	Σ	Σ	Q	Q
Q	Q	Fluoranthene	0.01	0.02	Q	Q	2,3,4,5-Tetrachlorophenol	0.002	0.01	Q	Q
Q	Q	Pyrene	0.01	0.06	Q	Q	2,3,4,6,7,8,9-Tetrachlorophenol	Σ	Σ	Q	Q
Q	Q	Benzoflanthenene	0.01	0.04	Q	Q	Quinaclophenols (sum)	Σ	Σ	Q	Q
Q	Q	Chrysenes	0.01	0.02	Q	Q	Pentachlorophenol	0.001	0.01	Q	Q
Q	Q	Benzodifluoranthene	0.01	0.06	Q	Q	4-Chloro-3-methylphenol	0.001	0.02		
Q	Q	Benzofluoranthene	0.01		Q	Q	PCB				
Q	Q	Benzoperylene	0.01	0.1	Q	Q	PCB 28	0.002	0.01	Q	Q
Q	Q	Dibenzofluoranthene	0.01	0.08	Q	Q	PCB 52	0.002	0.01	Q	Q
Q	Q	Indeno(1,2,3-cd)pyrene	0.01	0.06	Q	Q	PCB 101	0.002	0.01	Q	Q
Q	Q	PMHs (sum 10 Dutch VROM)	Σ	Σ	Q	Q	PCB 118	0.002	0.01	Q	Q
Q	Q	PMHs (sum 16 US EPA)	Σ	Σ	Q	Q	PCB 138	0.002	0.01	Q	Q
Halogenated hydrocarbons											
Volatile halogenated HC's											
Q	Q	Chloromethane		0.2	Q	Q	PCB 153	0.002	0.01	Q	Q
Q	Q	Dichloromethane		0.2	Q	Q	PCB 180	0.002	0.01	Q	Q
Q	Q	Vinylchloride		0.2	Q	Q	PCB (sum 6)	Σ	Σ	Q	Q
Q	Q	1,1-Dichloroethane		0.1	Q	Q	PCB (sum 7)	Σ	Σ	Q	Q
Q	Q	m-1,2-Dichloroethane		0.1	Q	Q	Chloronitrobenzenes				
Q	Q	cis-1,2-Dichloroethane		0.1	Q	Q	m,p-Chloronitrobenzene	0.01	0.2	Q	Q
Q	Q	Chloroethane		0.1	Q	Q	m-Chloronitrobenzene	0.01	0.2	Q	Q
Q	Q	Trichlorofluoroethane		0.1	Q	Q	Mono-chloronitrobenzenes (sum)	Σ	Σ	Q	Q
Q	Q	Trichloroethane (chloroform)		0.2	Q	Q	2,3 / 3,4-Dichloronitrobenzene	0.01		Q	Q
Q	Q	Tetrachloroethane (tetra)		0.05	Q	Q	2,3-Dichloronitrobenzene		0.1	Q	Q
Q	Q	1,1-Dichloroethane		0.1	Q	Q	2,4-Dichloronitrobenzene	0.02	0.1	Q	Q
Q	Q	1,2-Dichloroethane		0.1	Q	Q	2,5-Dichloronitrobenzene	0.01	0.1	Q	Q
Q	Q	1,1,1-Trichloroethane		0.05	Q	Q	3,4-Dichloronitrobenzene		0.1	Q	Q
Q	Q				Q	Q	3,5-Dichloronitrobenzene	0.02	0.05	Q	Q
Q	Q				Q	Q	Dichloronitrobenzenes (sum)	Σ	Σ	Q	Q
Miscellaneous Chlor. HC's											
Q	Q				Q	Q	2-Chlorobutene	0.01	0.1		
Q	Q				Q	Q	4-Chlorobutene	0.01	0.1		
Q	Q				Q	Q	Chlorobutenes (sum)	Σ	Σ		
Q	Q				Q	Q	1-Chloronaphthalene	0.005	0.02		
Pesticides											
Chlorine pesticides											
Q	Q	4,4-DDD		0.001	Q	Q	Alfadin		0.002	Q	Q
Q	Q	2,4-DDD		0.001	Q	Q	Dieldrin		0.002	Q	Q
Q	Q	4,4-DDT		0.002	Q	Q	Endrin		0.005	Q	Q
Q	Q	4,4-DDD/2,4-DDT		0.001	Q	Q	Drins (sum)		Σ	Q	Q
Q	Q	2,4-DDD		0.001	Q	Q	alfa-HCH		0.05	Q	Q
Q	Q	DDE/DDD/DDD (sum)		Σ	Q	Q	beta-HCH		0.005	Q	Q
Q	Q	Alfadin		0.002	Q	Q	gamma-HCH		0.005	Q	Q
Q	Q	Dieldrin		0.002	Q	Q	delta-HCH		0.02	Q	Q
Q	Q	Endrin		0.005	Q	Q	HCH (sum)		Σ	Q	Q
Q	Q	Drins (sum)		Σ	Q	Q	Alfa-endosulfan		0.01	Q	Q
Q	Q	alfa-HCH		0.05	Q	Q	Alfa-endosulfan sulphate		0.02	Q	Q
Q	Q	beta-HCH		0.005	Q	Q	Alfa-chlordane		0.002	Q	Q
Q	Q	gamma-HCH		0.005	Q	Q	Gamma-chlordane		0.002	Q	Q
Q	Q	delta-HCH		0.02	Q	Q	Chlordanes (sum)		Σ	Q	Q
Q	Q	HCH (sum)		Σ	Q	Q	Heptachlor		0.002	Q	Q
Q	Q	Alfa-endosulfan		0.01	Q	Q	Heptachlor epoxide		0.005	Q	Q
Q	Q	Alfa-endosulfan sulphate		0.02	Q	Q	Isodrin		0.005	Q	Q
Q	Q	Alfa-chlordane		0.002	Q	Q	Hexachlorobutadiene		0.002	Q	Q
Q	Q	Gamma-chlordane		0.002	Q	Q	Teledrin		0.005	Q	Q
Q	Q	Chlordanes (sum)		Σ	Q	Q	ledrin		0.005	Q	Q
Phosphor pesticides											
Q	Q	Azinphos-ethyl		0.005	Q	Q					
Q	Q	Azinphos-methyl		0.005	Q	Q					
Q	Q	Bromophos-ethyl		0.02	Q	Q					
Q	Q	Bromophos-methyl		0.02	Q	Q					
Q	Q	Chlorophosphos-ethyl		0.01	Q	Q					
Q	Q	Chlorophosphos-methyl		0.01	Q	Q					
Q	Q	Cumaphos		0.005	Q	Q					
Q	Q	Demeton-S/Demeton-O (ethyl)		0.02	Q	Q					
Q	Q	Blatrin		0.005	Q	Q					
Q	Q	Dichlorvos		0.1	Q	Q					
Q	Q	Disulfoton		0.02	Q	Q					
Q	Q	Fenitrothion		0.005	Q	Q					
Q	Q	Fenitrothion		0.002	Q	Q					
Q	Q	Malathion		0.005	Q	Q					
Q	Q	Parathion-ethyl		0.005	Q	Q					
Q	Q	Parathion-methyl		0.01	Q	Q					
Q	Q	Thiophos		0.005	Q	Q					
Q	Q	Triazophos		0.02	Q	Q					
Nitrogen pesticides											
Q	Q	Amblyne		0.01	Q	Q					
Q	Q	Azinphos		0.02	Q	Q					
Q	Q	Cyazoflate		0.02	Q	Q					
Q	Q	Demethyne		0.005	Q	Q					
Q	Q	Promethyne		0.02	Q	Q					
Q	Q	Propazine		0.02	Q	Q					
Q	Q	Simazine		0.02	Q	Q					
Q	Q	Terbutylazine		0.02	Q	Q					
Q	Q	Terbuthazine		0.05	Q	Q					
Miscellaneous pesticides											
Q	Q	Bifenoxin		0.005	Q	Q					
Q	Q	Carbaryl		0.1	Q	Q					
Q	Q	Gyphos (Mn (A,B,C,D))		0.05	Q	Q					
Q	Q	Deltamethrin		0.01	Q	Q					
Q	Q	Lisofen		0.1	Q	Q					
Q	Q	Permethrin A			Q	Q					
Q	Q	Permethrin B			Q	Q					
Q	Q	Permethrin (sum A+B)		0.01	Q	Q					
Q	Q	Propachlor		0.02	Q	Q					
Q	Q	Trifluralin		0.005	Q	Q					
Miscellaneous											

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PR-14-AH-000071-01

Preliminary Certificate Of Analysis

Sample number	322-2014-00002036	Received on	26/02/2014
Your sample reference	GW1	Your sample code	None supplied
	26-2-14		

<u>Test Code</u>	<u>Analyte</u>	<u>Result</u>	<u>Accreditation</u>
Water Chemistry			
AH007	Oxygen dissolved in water	10 mg O2/l	EUIRDU:
MF097	Aluminium	4.64 mg/l	EUUKWO2:⌘
MF321	Arsenic (Total)	3.16 µg/l	EUUKWO2:⌘
MF099	Barium (Ba)	36.8 µg/l	EUUKWO2:⌘
MF027	Boron (B)	<0.008 mg/l	EUUKWO2:⌘
MF077	Cadmium	<1.5 µg/l	EUUKWO2:⌘
MF103	Calcium	13.2 mg/l	EUUKWO2:⌘
MF105	Chromium	0.00874 mg/l	EUUKWO2:⌘
MF109	Copper	0.00667 mg/l	EUUKWO2:⌘
MF111	Iron	3.46 mg/l	EUUKWO2:⌘
MF083	Lead	<5 µg/l	EUUKWO2:⌘
MF115	Magnesium	12.7 mg/l	EUUKWO2:⌘
MF116	Manganese	0.478 mg/l	EUUKWO2:⌘
MF266	Mercury	0.00668 µg/l	EUUKWO2:⌘
MF119	Nickel	0.00620 mg/l	EUUKWO2:⌘
MF123	Potassium	1.52 mg/l	EUUKWO2:⌘
MF331	Selenium (Total)	<0.4 µg/l	EUUKWO2:⌘
MF131	Silver (Ag)	<0.8 µg/l	EUUKWO2:⌘
MF124	Sodium	6.38 mg/l	EUUKWO2:⌘
MF121	Total Phosphorus	<0.08 mg/l	EUUKWO2:⌘
MF129	Zinc (Zn)	0.0117 mg/l	EUUKWO2:⌘

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Page 2 of 2

Results to follow:

Alkalinity as CaCO₃ (Waste) [MF242]
Ammonia as N [OT04S]
Chloride (waste) [MF002]
Conductivity at 20°C (waste) [MF004]
Cyanide (Total) [OT053]
Fluoride (waste) [MF264]
Nitrate as N [OT04V]
Nitrate as NO₃ [MF00G]
Nitrite as N [OT04W]
Nitrite as NO₂ [MF00H]
Nitrogen (Total Oxidised) as N [OT05C]
Ortho-Phosphate as P [OT04Z]
pH (waste) [OT02Z]
Phenols (total) [OT218]
Solids (Suspended at 105°C) [MF012]
Sulphate (waste) [MF013]
Total Organic Carbon [OT260]
Total Petroleum Hydrocarbons (TPH) [OT267]
TPH (>C11-C12) [OT262]
TPH (>C12-C16) [OT263]
TPH (>C16-C21) [OT264]
TPH (>C21-C35) [OT265]
TPH (>C35-C39) [OT266]

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Accreditation Key:

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EUUKWO2:□

(Accreditation depends on matrices) Eurofins Food Testing UK Ltd (Wolverhampton Water)

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PR-14-AH-000072-01

Preliminary Certificate Of Analysis

Sample number	322-2014-00002037	Received on	26/02/2014
Your sample reference	GW2 26-2-14	Your sample code	None supplied

<u>Test Code</u>	<u>Analyte</u>	<u>Result</u>	<u>Accreditation</u>
Water Chemistry			
AH007	Oxygen dissolved in water	7.2 mg O2/l	EUIRDU:
MF097	Aluminium	2.20 mg/l	EUUKWO2:⌘
MF321	Arsenic (Total)	1.67 µg/l	EUUKWO2:⌘
MF099	Barium (Ba)	24.0 µg/l	EUUKWO2:⌘
MF027	Boron (B)	<0.008 mg/l	EUUKWO2:⌘
MF077	Cadmium	<1.5 µg/l	EUUKWO2:⌘
MF103	Calcium	16.8 mg/l	EUUKWO2:⌘
MF105	Chromium	0.00604 mg/l	EUUKWO2:⌘
MF109	Copper	0.00572 mg/l	EUUKWO2:⌘
MF111	Iron	3.33 mg/l	EUUKWO2:⌘
MF083	Lead	<5 µg/l	EUUKWO2:⌘
MF115	Magnesium	7.20 mg/l	EUUKWO2:⌘
MF116	Manganese	0.699 mg/l	EUUKWO2:⌘
MF266	Mercury	0.0109 µg/l	EUUKWO2:⌘
MF119	Nickel	0.00613 mg/l	EUUKWO2:⌘
MF123	Potassium	1.16 mg/l	EUUKWO2:⌘
MF331	Selenium (Total)	<0.4 µg/l	EUUKWO2:⌘
MF131	Silver (Ag)	<0.8 µg/l	EUUKWO2:⌘
MF124	Sodium	10.5 mg/l	EUUKWO2:⌘
MF121	Total Phosphorus	<0.08 mg/l	EUUKWO2:⌘
MF129	Zinc (Zn)	0.00905 mg/l	EUUKWO2:⌘

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Page 2 of 2

Results to follow:

Alkalinity as CaCO₃ (Waste) [MF242]
Ammonia as N [OT04S]
Chloride (waste) [MF002]
Conductivity at 20°C (waste) [MF004]
Cyanide (Total) [OT053]
Fluoride (waste) [MF264]
Nitrate as N [OT04V]
Nitrate as NO₃ [MF00G]
Nitrite as N [OT04W]
Nitrite as NO₂ [MF00H]
Nitrogen (Total Oxidised) as N [OT05C]
Ortho-Phosphate as P [OT04Z]
pH (waste) [OT02Z]
Phenols (total) [OT218]
Solids (Suspended at 105°C) [MF012]
Sulphate (waste) [MF013]
Total Organic Carbon [OT260]
Total Petroleum Hydrocarbons (TPH) [OT267]
TPH (>C11-C12) [OT262]
TPH (>C12-C16) [OT263]
TPH (>C16-C21) [OT264]
TPH (>C21-C35) [OT265]
TPH (>C35-C39) [OT266]

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Accreditation Key:

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EUUKWO2:α

(Accreditation depends on matrices) Eurofins Food Testing UK Ltd (Wolverhampton Water)

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AR-14-AH-002381-01

Certificate Of Analysis

Sample number	322-2014-00002038	Received on	26/02/2014
Your sample reference	GW3	Your sample code	None supplied
	26-2-14		

<u>Test Code</u>	<u>Analyte</u>	<u>Result</u>	<u>Accreditation</u>
Water Chemistry			
AH007	Oxygen dissolved in water	9.1 mg O2/l	EUIRDU:
MF004	Conductivity at 20°C	820 µS/cm	EUUKOT:MI
OT04W	Nitrite	<0.013 mg N/l	EUUKOT:
OT04Z	Ortho-Phosphate (as P)	<0.18 mg/l	EUUKOT:
OT04V	Nitrate	0.137 mg N/l	EUUKOT:
OT04S	Ammonia	0.59 mg N/l	EUUKOT:
MF264	Fluoride	<1.1 mg/l	EUUKOT:
MF242	Total Alkalinity	326 mg CaCO3/l	EUUKOT:
MF00H	Nitrite	<0.0427 mg NO2/l	EUUKOT:
MF00G	Nitrate	0.607 mg NO3/l	EUUKOT:
MF013	Sulphate	102 mg/l	EUUKOT:
MF012	Suspended Solids	43.0 mg/l	EUUKOT:
MF002	Chloride	40.0 mg/l	EUUKOT:MI
MF097	Aluminium	1.59 mg/l	EUUKWO2:MI
MF321	Arsenic (Total)	2.39 µg/l	EUUKWO2:MI
MF099	Barium (Ba)	94.9 µg/l	EUUKWO2:MI
MF027	Boron (B)	0.287 mg/l	EUUKWO2:MI
MF077	Cadmium	<1.5 µg/l	EUUKWO2:MI
MF103	Calcium	144 mg/l	EUUKWO2:MI
MF105	Chromium	0.0176 mg/l	EUUKWO2:MI
MF109	Copper	0.0113 mg/l	EUUKWO2:MI

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AR-14-AH-002381-01

Page 2 of 2

Sample number	322-2014-00002038	Received on	26/02/2014
Your sample reference	GW3 26-2-14	Your sample code	None supplied

<u>Test Code</u>	<u>Analyte</u>	<u>Result</u>	<u>Accreditation</u>
MF111	Iron	1.81 mg/l	EUUKWO2:MI
MF083	Lead	<5 µg/l	EUUKWO2:MI
MF115	Magnesium	23.2 mg/l	EUUKWO2:MI
MF116	Manganese	1.14 mg/l	EUUKWO2:MI
MF266	Mercury	0.0169 µg/l	EUUKWO2:MI
MF119	Nickel	0.00526 mg/l	EUUKWO2:MI
OT02Z	pH	7.67	EUUKOT:
MF123	Potassium	3.73 mg/l	EUUKWO2:MI
MF331	Selenium (Total)	<0.4 µg/l	EUUKWO2:MI
MF131	Silver (Ag)	<0.8 µg/l	EUUKWO2:MI
MF124	Sodium	20.5 mg/l	EUUKWO2:MI
OT260	Total Organic Carbon	10.2 mg/l	EUUKOT:
OT05C	Total Oxidised Nitrogen	0.137 mg N/l	EUUKOT:
MF121	Total Phosphorus	<0.08 mg/l	EUUKWO2:MI
MF129	Zinc (Zn)	0.0389 mg/l	EUUKWO2:MI

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Reported validated by Maxine Bryan, ASM on 10/03/2014

Accreditation Key:

(Not accredited)
EUUKOT: (Not accredited) Eurofins Environmental Testing UK (Otterbourne)
EUUKOT:MI BS EN ISO/IEC 17025:2005 UKAS 1111 Eurofins Environmental Testing UK (Otterbourne)
EUUKWO2:MI BS EN ISO/IEC 17025:2005 UKAS 1111 Eurofins Food Testing UK Ltd (Wolverhampton Water)

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PR-14-AH-000073-01

Preliminary Certificate Of Analysis

Sample number	322-2014-00002039	Received on	26/02/2014
Your sample reference	GW4 26-2-14	Your sample code	None supplied

Test Code	Analyte	Result	Accreditation
Water Chemistry			
AH007	Oxygen dissolved in water	10 mg O2/l	EUIRDU:
MF097	Aluminium	4.17 mg/l	EUUKWO2:*
MF321	Arsenic (Total)	2.98 µg/l	EUUKWO2:*
MF099	Barium (Ba)	24.0 µg/l	EUUKWO2:*
MF027	Boron (B)	<0.008 mg/l	EUUKWO2:*
MF077	Cadmium	<1.5 µg/l	EUUKWO2:*
MF103	Calcium	7.96 mg/l	EUUKWO2:*
MF105	Chromium	0.0129 mg/l	EUUKWO2:*
MF109	Copper	0.00867 mg/l	EUUKWO2:*
MF111	Iron	5.78 mg/l	EUUKWO2:*
MF083	Lead	<5 µg/l	EUUKWO2:*
MF115	Magnesium	8.43 mg/l	EUUKWO2:*
MF116	Manganese	0.278 mg/l	EUUKWO2:*
MF266	Mercury	0.00682 µg/l	EUUKWO2:*
MF119	Nickel	0.00955 mg/l	EUUKWO2:*
MF123	Potassium	1.19 mg/l	EUUKWO2:*
MF331	Selenium (Total)	<0.4 µg/l	EUUKWO2:*
MF131	Silver (Ag)	<0.8 µg/l	EUUKWO2:*
MF124	Sodium	4.65 mg/l	EUUKWO2:*
MF121	Total Phosphorus	0.0888 mg/l	EUUKWO2:*
MF129	Zinc (Zn)	0.0151 mg/l	EUUKWO2:*

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Page 2 of 2

Results to follow:

Alkalinity as CaCO₃ (Waste) [MF242]
Ammonia as N [OT04S]
Chloride (waste) [MF002]
Conductivity at 20°C (waste) [MF004]
Cyanide (Total) [OT053]
Fluoride (waste) [MF264]
Nitrate as N [OT04V]
Nitrate as NO₃ [MF00G]
Nitrite as N [OT04W]
Nitrite as NO₂ [MF00H]
Nitrogen (Total Oxidised) as N [OT05C]
Ortho-Phosphate as P [OT04Z]
pH (waste) [OT02Z]
Phenols (total) [OT218]
Solids (Suspended at 105°C) [MF012]
Sulphate (waste) [MF013]
Total Organic Carbon [OT260]
Total Petroleum Hydrocarbons (TPH) [OT267]
TPH (>C11-C12) [OT262]
TPH (>C12-C16) [OT263]
TPH (>C16-C21) [OT264]
TPH (>C21-C35) [OT265]
TPH (>C35-C39) [OT266]

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Accreditation Key:

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