



Jones Environmental Laboratory

Penstock Industrial Park, Unit 3, Deeside Industrial Park, Deeside, CH5 2UA

RECEIVED

22 JUL 2014

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4225

Attention : Marek Hussar
Date : 16th July, 2014
Your reference : Penstock Water Analysis
Our reference : Test Report 14/7504 Batch 1
Location : Penstock
Date samples received : 1st July, 2014
Status : Final report
Issue : 1

One sample was received for analysis on 1st July, 2014. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Phil Sommerton BSc
Project Manager

Bob Millward BSc FRSC
Principal Chemist

OK FOR PUBLIC REGISTER	INITIALS	DATE
	AR	4/8/14
COPYED TO PUBLIC REGISTER	JB	EDDM

Client Name: Headland Agrochemicals Ltd
Reference: Penstock Water Analysis
Location: Penstock
Contact: Marek Hussar
JE Job No.: 14/7504

SVOC Report : Liquid

J E Sample No.	1										Please see attached notes for all abbreviations and acronyms	
Sample ID	PENSTOCK WATER SAMPLE											
Depth												
COC No / misc Containers	P											
Sample Date	30/06/2014											
Sample Type	Surface Water											
Batch Number	1											
Date of Receipt	01/07/2014											
SVOC MS												
Phenols												
2-Chlorophenol [#]	<1									<1	ug/l	TM16/PM30
2-Methylphenol [#]	<0.5									<0.5	ug/l	TM16/PM30
2-Nitrophenol	<0.5									<0.5	ug/l	TM16/PM30
2,4-Dichlorophenol [#]	<0.5									<0.5	ug/l	TM16/PM30
2,4-Dimethylphenol	<1									<1	ug/l	TM16/PM30
2,4,5-Trichlorophenol [#]	<0.5									<0.5	ug/l	TM16/PM30
2,4,6-Trichlorophenol	<1									<1	ug/l	TM16/PM30
4-Chloro-3-methylphenol [#]	<0.5									<0.5	ug/l	TM16/PM30
4-Methylphenol	<1									<1	ug/l	TM16/PM30
4-Nitrophenol	<10									<10	ug/l	TM16/PM30
Pentachlorophenol	<1									<1	ug/l	TM16/PM30
Phenol	<1									<1	ug/l	TM16/PM30
PAHs												
2-Chloronaphthalene [#]	<1									<1	ug/l	TM16/PM30
2-Methylnaphthalene [#]	<1									<1	ug/l	TM16/PM30
Naphthalene [#]	<1									<1	ug/l	TM16/PM30
Acenaphthylene [#]	<0.5									<0.5	ug/l	TM16/PM30
Acenaphthene [#]	<1									<1	ug/l	TM16/PM30
Fluorene [#]	<0.5									<0.5	ug/l	TM16/PM30
Phenanthrene [#]	<0.5									<0.5	ug/l	TM16/PM30
Anthracene [#]	<0.5									<0.5	ug/l	TM16/PM30
Fluoranthene [#]	<0.5									<0.5	ug/l	TM16/PM30
Pyrene [#]	<0.5									<0.5	ug/l	TM16/PM30
Benzo(a)anthracene [#]	<0.5									<0.5	ug/l	TM16/PM30
Chrysene [#]	<0.5									<0.5	ug/l	TM16/PM30
Benzo(bk)fluoranthene [#]	<1									<1	ug/l	TM16/PM30
Benzo(a)pyrene	<1									<1	ug/l	TM16/PM30
Indeno(123cd)pyrene	<1									<1	ug/l	TM16/PM30
Dibenzo(ah)anthracene [#]	<0.5									<0.5	ug/l	TM16/PM30
Benzo(ghi)perylene [#]	<0.5									<0.5	ug/l	TM16/PM30
Phthalates												
Bis(2-ethylhexyl) phthalate	<5									<5	ug/l	TM16/PM30
Butylbenzyl phthalate	<1									<1	ug/l	TM16/PM30
Di-n-butyl phthalate [#]	<1.5									<1.5	ug/l	TM16/PM30
Di-n-Octyl phthalate	<1									<1	ug/l	TM16/PM30
Diethyl phthalate [#]	<1									<1	ug/l	TM16/PM30
Dimethyl phthalate	<1									<1	ug/l	TM16/PM30

Jones Environmental Laboratory

Notification of Deviating Samples

Client Name: Headland Agrochemicals Ltd
Reference: Penstock Water Analysis
Location: Penstock
Contact: Marek Hussar

Matrix : Liquid

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Analysis	Reason
14:7504	1					Samples were received at a temperature above 9°C.

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating.
 Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 14/7504

SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory. It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

ABBREVIATIONS and ACRONYMS USED

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
OC	Outside Calibration Range

JE Job No: 14/7504

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Reported on dry weight basis
TM16	In-House method based on USEPA 8270. Determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS. Accredited to ISO 17025 for waters. All accreditation is matrix specific. Quantification by Internal Standard method.	PM30	In-house method based on USEPA 3510. Liquid samples are mixed with solvent and agitated with an automatic magnetic stirrer with a stir bar for 15 minutes to extract organic molecules. ISO 17025 accredited extraction method. All accreditation is matrix specific				
TM16	In-House method based on USEPA 8270. Determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS. Accredited to ISO 17025 for waters. All accreditation is matrix specific. Quantification by Internal Standard method.	PM30	In-house method based on USEPA 3510. Liquid samples are mixed with solvent and agitated with an automatic magnetic stirrer with a stir bar for 15 minutes to extract organic molecules. ISO 17025 accredited extraction method. All accreditation is matrix specific	Yes			
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM14	In-house method based on USEPA 3005A. Acid digestion of water samples and analysis by ICP-OES as per method TM050W/ISO 17025 accredited extraction method. All accreditation is matrix specific				
TM38	Ionic analysis using the Thermo Aquakem Photometric Automatic Analyser. Accredited to ISO17025 and MCERTS for most analytes. All accreditation is matrix specific.	PM0	No preparation is required.	Yes			
TM57	COD by Colourimetric measurement	PM0	No preparation is required.	Yes			
TM66	Free Chlorine by Colourimetric measurement	PM0	No preparation is required.				
TM73	pH in by Metrohm	PM0	No preparation is required.	Yes			
TM111	Solvent extractable compounds using GCMS with Retention Locking Software. 926 compound screen	PM30	In-house method based on USEPA 3510. Liquid samples are mixed with solvent and agitated with an automatic magnetic stirrer with a stir bar for 15 minutes to extract organic molecules. ISO 17025 accredited extraction method. All accreditation is matrix specific				