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Newport City Council
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Newport
NP20 4UR

Attention: Robert Hester

CERTIFICATE OF ANALYSIS

Date of report Generation: 11 March 2020
Customer: Newport City Council
Sample Delivery Group (SDG): 200303-100
Your Reference: SW25 & SW26 Feb 20
Location: Docks Way
Report No: 545181

This report has been revised and directly supersedes 544975 in its entirety.

We received 2 samples on Tuesday March 03, 2020 and 2 of these samples were scheduled for analysis which was completed on Tuesday March 10, 2020. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager





CERTIFICATE OF ANALYSIS

Validated

| | | |
|----------------------------|---|----------------------------------|
| SDG: 200303-100 | Client Reference: SW25 & SW26 Feb 20 | Report Number: 545181 |
| Location: Docks Way | Order Number: 700145760 | Superseded Report: 544975 |

Received Sample Overview

| Lab Sample No(s) | Customer Sample Ref. | AGS Ref. | Depth (m) | Sampled Date |
|------------------|----------------------|----------|-------------|--------------|
| 21807187 | SW25 | | 0.00 - 0.00 | 28/02/2020 |
| 21807193 | SW26 | | 0.00 - 0.00 | 28/02/2020 |

Maximum Sample/Coolbox Temperature (°C) :
ISO5667-3 Water quality - Sampling - Part3 -
 During Transportation samples shall be stored in a cooling device capable of maintaining a temperature of (5±3)°C.

4.2
 ALS have data which show that a cool box with 4 frozen icepacks is capable of maintaining pre-chilled samples at a temperature of (5±3)°C for a period of up to 24hrs.

Only received samples which have had analysis scheduled will be shown on the following pages.



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| | | | | | |
|------------------|------------|--------------------------|--------------------|---------------------------|--------|
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| Results Legend <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center; gap: 5px;"> <div style="border: 1px solid black; width: 15px; height: 15px; background-color: yellow; margin-right: 5px;"></div> Test </div> <div style="display: flex; align-items: center; gap: 5px;"> <div style="border: 1px solid black; width: 15px; height: 15px; background-color: red; color: white; margin-right: 5px;"></div> No Determination Possible </div> </div> Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other | Lab Sample No(s) | Customer Sample Reference | AGS Reference | Depth (m) | Container | Sample Type | |
|---|------------------|---------------------------|---------------|-----------|-----------------------------------|-----------------------------------|----|
| | | 21807187 | SW25 | | 0.00 - 0.00 | H2SO4 (ALE244) | SW |
| | | | | | 0.00 - 0.00 | DO KIT + DO 250 ml glass (ALE208) | SW |
| | | | | | | 500ml Plastic (ALE208) | SW |
| | | | | | | 250ml BOD (ALE212) | SW |
| | | | | | | DO KIT + DO 250 ml glass (ALE208) | SW |
| | | | | | 250ml BOD (ALE212) | SW | |
| | | | | | H2SO4 (ALE244) | SW | |
| | | | | | DO KIT + DO 250 ml glass (ALE208) | SW | |
| | | | | | 500ml Plastic (ALE208) | SW | |
| | | | | | 250ml BOD (ALE212) | SW | |
| | | | | | DO KIT + DO 250 ml glass (ALE208) | SW | |
| | | | | | 500ml Plastic (ALE208) | SW | |
| | | | | | 250ml BOD (ALE212) | SW | |
| | | | | | H2SO4 (ALE244) | SW | |
| | | | | | DO KIT + DO 250 ml glass (ALE208) | SW | |
| | | | | | 500ml Plastic (ALE208) | SW | |
| | | | | | 250ml BOD (ALE212) | SW | |
| | | | | | DO KIT + DO 250 ml glass (ALE208) | SW | |
| | | | | | 500ml Plastic (ALE208) | SW | |
| | | | | | 250ml BOD (ALE212) | SW | |
| | | | | | H2SO4 (ALE244) | SW | |
| | | | | | DO KIT + DO 250 ml glass (ALE208) | SW | |
| | | | | | 500ml Plastic (ALE208) | SW | |
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| | | | | | H2SO4 (ALE244) | SW | |
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| | | | | | 500ml Plastic (ALE208) | SW | |
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| | | | | | 500ml Plastic (ALE208) | SW | |
| | | | | | 250ml BOD (ALE212) | SW | |
| | | | | | H2SO4 (ALE244) | SW | |
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| | | | | | 500ml Plastic (ALE208) | SW | |
| | | | | | 250ml BOD (ALE212) | SW | |
| | | | | | H2SO4 (ALE244) | SW | |
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| | | | | | 500ml Plastic (ALE208) | SW | |
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| | | | | | DO KIT + DO 250 ml glass (ALE208) | SW | |
| | | | | | 500ml Plastic (ALE208) | SW | |
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| | | | | | 500ml Plastic (ALE208) | SW | |
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| | | | | | DO KIT + DO 250 ml glass (ALE208) | SW | |
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| | | | | | 500ml Plastic (ALE208) | SW | |
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| | | | | | 500ml Plastic (ALE208) | SW | |
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SDG: 200303-100 **Client Reference:** SW25 & SW26 Feb 20 **Report Number:** 545181
Location: Docks Way **Order Number:** 700145760 **Superseded Report:** 544975

Table of Results - Appendix

| Method No | Reference | Description |
|-----------|---|---|
| TM022 | Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872 | Determination of total suspended solids in waters |
| TM045 | MEWAM BOD5 2nd Ed.HMSO 1988 / Method 5210B, AWWA/APHA, 20th Ed., 1999; SCA Blue Book 130 | Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids |
| TM099 | BS 2690: Part 7:1968 / BS 6068: Part2.11:1984 | Determination of Ammonium in Water Samples using the Kone Analyser |
| TM107 | ISO 6060-1989 | Determination of Chemical Oxygen Demand using COD Dr Lange Kit |
| TM120 | Method 2510B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 9:1970 | Determination of Electrical Conductivity using a Conductivity Meter |
| TM184 | EPA Methods 325.1 & 325.2, | The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers |
| TM187 | Winkler, L.W, Ber Deutsch. Chem. Ges, 21,2843,1888." | Dissolved Oxygen in Natural and Waste Waters HMSO 1979 ISBN 011 751442 |
| TM256 | The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4. | Determination of pH in Water and Leachate using the GLpH pH Meter |

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



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 Location: Docks Way Order Number: 700145760 Superseded Report: 544975

Test Completion Dates

| Lab Sample No(s) | 21807187 | 21807193 |
|----------------------|---------------|---------------|
| Customer Sample Ref. | SW25 | SW26 |
| AGS Ref. | | |
| Depth | 0.00 - 0.00 | 0.00 - 0.00 |
| Type | Surface Water | Surface Water |

| | | |
|-------------------------------|-------------|-------------|
| Ammoniacal Nitrogen | 04-Mar-2020 | 04-Mar-2020 |
| Anions by Kone (w) | 05-Mar-2020 | 05-Mar-2020 |
| BOD True Total | 10-Mar-2020 | 10-Mar-2020 |
| COD Unfiltered | 04-Mar-2020 | 04-Mar-2020 |
| Conductivity (at 20 deg.C) | 06-Mar-2020 | 06-Mar-2020 |
| Dissolved Oxygen by Titration | 05-Mar-2020 | 05-Mar-2020 |
| pH Value | 04-Mar-2020 | 04-Mar-2020 |
| Suspended Solids | 04-Mar-2020 | 04-Mar-2020 |



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Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

| | |
|---|---|
| 1 | Container with Headspace provided for volatiles analysis |
| 2 | Incorrect container received |
| 3 | Deviation from method |
| § | Sampled on date not provided |
| ◆ | Sample holding time exceeded in laboratory |
| @ | Sample holding time exceeded due to late arrival of instructions or samples |

19. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

| Asbestos Type | Common Name |
|-----------------------|----------------|
| Chrysotile | White Asbestos |
| Amosite | Brown Asbestos |
| Crocidolite | Blue Asbestos |
| Fibrous Actinolite | - |
| Fibrous Anthophyllite | - |
| Fibrous Tremolite | - |

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung. Standing Committee of Analysts, *The Quantification of Asbestos in Soil (2107)*.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.