



Environmental Division

Certificate of Analysis

CASH CLIENTS - WATERLOO

ATTN: TERRY STURTEVANT

535 A ROSEMEADOW CR

WATERLOO ON N2T 2A1

Reported On: 29-JUL-08 09:01 AM

Lab Work Order #: L658933

Date Received: 22-JUL-08

Project P.O. #:

Job Reference:

Legal Site Desc:

CofC Numbers: 61664

Other Information:

Comments:

NANCY GRAHAM
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd. (formerly ETL Chemspec Analytical Ltd.)

Part of the **ALS Laboratory Group**

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A Campbell Brothers Limited Company

ALS LABORATORY GROUP CRITERIA REPORT

29-JUL-08 08:58:53

** analytical results for this parameter exceed criteria limits listed on this report

Reference Information

L658933 CONTD....

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Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|---------------------------------------|
| DLA | Detection Limit Adjusted For Dilution |

Methods Listed (if applicable):

| ALS Test Code | Matrix | Test Description | Preparation Method Reference(Based On) | Analytical Method Reference(Based On) |
|--|--------|--------------------------|--|---------------------------------------|
| CA-TOT-WT | Water | Calcium (Ca) -Total | | EPA 200.8 |
| EC-MF-WT | Water | E. Coli | | SM 9222D |
| A 100mL volume of sample is filtered through a membrane, the membrane is placed on mFC-BCIG agar and incubated at @44.5–0.2°C for 24–2h. | | | | |
| ETL-HARDNESS-CALC-WT | Water | Hardness (as CaCO3) | | APHA 2340 B |
| ETL-N2N3-WT | Water | Calculate from NO2 + NO3 | | APHA 4110 B |
| MG-TOT-WT | Water | Magnesium (Mg) - Total | | EPA 200.8 |
| NO2-WT | Water | Nitrite-N | | EPA 300.0 (IC) |
| NO3-WT | Water | Nitrate-N | | EPA 300.0 (IC) |
| TC-MF-WT | Water | Total Coliforms | | SM 9222B |

A 100mL volume of sample is filtered through a membrane, the membrane is placed on mENDO LES agar and incubated at 35–0.5°C for 24–2h.

Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

61664

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location | Laboratory Definition Code | Laboratory Location |
|----------------------------|---|----------------------------|---------------------|
| WT | ALS LABORATORY GROUP - WATERLOO, ONTARIO, CAN | | |

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading D.L.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

< - Less than

D.L. - Detection Limit

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

ALS provides criteria information as a service to you, our customer. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. ALS recommends review of the most current version of the regulation, and assumes no responsibility for the accuracy of the criteria levels indicated.



Environmental Division

ALS Laboratory Group Quality Control Report

Workorder: L658933

Report Date: 29-JUL-08

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Client: CASH CLIENTS - WATERLOO
535 A ROSEMEADOW CR
WATERLOO ON N2T 2A1

Contact: TERRY STURTEVANT

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------|----------------|-------------------|--------|-----------|-----------|-----|--------|-----------|
| CA-TOT-WT | | Water | | | | | | |
| Batch | R699439 | | | | | | | |
| WG806838-1 | CVS | | | | | | | |
| Calcium (Ca)-Total | | | 102 | | % | | 86-121 | 25-JUL-08 |
| WG806838-5 | DUP | WG806838-4 | | | | | | |
| Calcium (Ca)-Total | | 112 | 115 | DLM | mg/L | 2.4 | 20 | 25-JUL-08 |
| WG806838-3 | MB | | | | | | | |
| Calcium (Ca)-Total | | | <0.5 | | mg/L | | 0.5 | 25-JUL-08 |
| EC-MF-WT | | Water | | | | | | |
| Batch | R698347 | | | | | | | |
| WG805079-2 | DUP | L658976-1 | | | | | | |
| E. Coli | | 0 | 0 | | CFU/100mL | 0.0 | 82 | 23-JUL-08 |
| WG805079-1 | MB | | | | | | | |
| E. Coli | | | 0 | | CFU/100mL | | 1 | 23-JUL-08 |
| MG-TOT-WT | | Water | | | | | | |
| Batch | R699439 | | | | | | | |
| WG806838-1 | CVS | | | | | | | |
| Magnesium (Mg)-Total | | | 101 | | % | | 78-124 | 25-JUL-08 |
| WG806838-5 | DUP | WG806838-4 | | | | | | |
| Magnesium (Mg)-Total | | 37 | 39 | DLM | mg/L | 2 | 20 | 25-JUL-08 |
| WG806838-3 | MB | | | | | | | |
| Magnesium (Mg)-Total | | | <0.5 | | mg/L | | 0.5 | 25-JUL-08 |
| NO2-WT | | Water | | | | | | |
| Batch | R698594 | | | | | | | |
| WG805764-5 | DUP | WG805764-4 | | | | | | |
| Nitrite-N | | 0.4 | 0.4 | J | mg/L | 0.0 | 0.4 | 23-JUL-08 |
| WG805764-6 | DUP | L659200-1 | | | | | | |
| Nitrite-N | | <0.3 | <0.3 | RPD-NA | mg/L | N/A | 25 | 23-JUL-08 |
| WG805764-8 | DUP | L658472-5 | | | | | | |
| Nitrite-N | | <0.5 | <0.5 | RPD-NA | mg/L | N/A | 25 | 23-JUL-08 |
| WG805764-3 | LCS | | | | | | | |
| Nitrite-N | | | 101 | | % | | 80-120 | 23-JUL-08 |
| WG805764-1 | MB | | | | | | | |
| Nitrite-N | | | <0.1 | | mg/L | | 0.1 | 23-JUL-08 |
| NO3-WT | | Water | | | | | | |
| Batch | R698594 | | | | | | | |
| WG805764-5 | DUP | WG805764-4 | | | | | | |
| Nitrate-N | | 0.5 | 0.5 | J | mg/L | 0.0 | 0.4 | 23-JUL-08 |
| WG805764-6 | DUP | L659200-1 | | | | | | |

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| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------|----------------|------------------|--------|-----------|-----------|-----|--------|-----------|
| NO3-WT | | Water | | | | | | |
| Batch | R698594 | | | | | | | |
| WG805764-6 | DUP | L659200-1 | | | | | | |
| Nitrate-N | | <0.3 | <0.3 | RPD-NA | mg/L | N/A | 20 | 23-JUL-08 |
| WG805764-8 | DUP | L658472-5 | | | | | | |
| Nitrate-N | | <0.5 | <0.5 | RPD-NA | mg/L | N/A | 20 | 23-JUL-08 |
| WG805764-3 | LCS | | | | | | | |
| Nitrate-N | | | 101 | | % | | 80-120 | 23-JUL-08 |
| WG805764-1 | MB | | | | | | | |
| Nitrate-N | | | <0.1 | | mg/L | | 0.1 | 23-JUL-08 |
| TC-MF-WT | | Water | | | | | | |
| Batch | R698354 | | | | | | | |
| WG805076-2 | DUP | L658966-1 | | | | | | |
| Total Coliforms | | 0 | 0 | | CFU/100mL | 0.0 | 39 | 23-JUL-08 |
| WG805076-1 | MB | | | | | | | |
| Total Coliforms | | | 0 | | CFU/100mL | | 1 | 23-JUL-08 |

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Legend:

| | |
|-------|---|
| Limit | 99% Confidence Interval (Laboratory Control Limits) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |


