

**C.O.C.: G37739**

**REPORT No. B13-25123**

**Report To:**

**Hamlet of Grise Fiord**

P.O. Box 77 Grise Fiord,  
Grise Fiord NU X0X 0J0

**Attention:** David Watsko

**Caduceon Environmental Laboratories**

2378 Holly Lane  
Ottawa Ontario K1V 7P1  
Tel: 613-526-0123  
Fax: 613-526-1244

DATE RECEIVED: 24-Sep-13

JOB/PROJECT NO.:

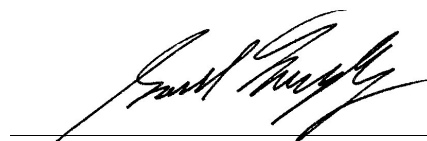
DATE REPORTED: 30-Sep-13

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

|                                         |          |         | Client I.D.         |                       | From Sewage<br>Truck Raw |  |  |  |
|-----------------------------------------|----------|---------|---------------------|-----------------------|--------------------------|--|--|--|
|                                         |          |         | Sample I.D.         |                       | B13-25123-1              |  |  |  |
|                                         |          |         | Date Collected      |                       | 19-Sep-13                |  |  |  |
| Parameter                               | Units    | M.D.L.  | Reference<br>Method | Date/Site<br>Analyzed |                          |  |  |  |
| Hardness (as CaCO <sub>3</sub> )        | mg/L     | 1       | SM 3120             | 25-Sep-13/O           | 82                       |  |  |  |
| Conductivity @25°C                      | µmho/cm  | 1       | SM 2510B            | 25-Sep-13/O           | 1230                     |  |  |  |
| Alkalinity(CaCO <sub>3</sub> ) to pH4.5 | mg/L     | 5       | SM 2320B            | 25-Sep-13/O           | 421                      |  |  |  |
| pH @25°C                                | pH Units |         | SM 4500H            | 25-Sep-13/O           | 7.54                     |  |  |  |
| BOD                                     | mg/L     | 3       | SM 5210B            | 25-Sep-13/O           | 651                      |  |  |  |
| Total Suspended Solids                  | mg/L     | 3       | SM 2540D            | 25-Sep-13/O           | 940                      |  |  |  |
| Total Organic Carbon                    | mg/L     | 0.2     | EPA 415.1           | 25-Sep-13/O           | 176                      |  |  |  |
| Chloride                                | mg/L     | 0.5     | SM4110C             | 25-Sep-13/O           | 66.1                     |  |  |  |
| Nitrite (N)                             | mg/L     | 0.1     | SM4110C             | 25-Sep-13/O           | < 0.1                    |  |  |  |
| Nitrate (N)                             | mg/L     | 0.1     | SM4110C             | 25-Sep-13/O           | < 0.1                    |  |  |  |
| Sulphate                                | mg/L     | 1       | SM4110C             | 25-Sep-13/O           | 2                        |  |  |  |
| Ammonia (N)-Total                       | mg/L     | 0.01    | MOEE 3364           | 26-Sep-13/O           | 106                      |  |  |  |
| Phenolics                               | mg/L     | 0.001   | MOEE 3179           | 25-Sep-13/O           | 0.223                    |  |  |  |
| Aluminum (total)                        | mg/L     | 0.01    | SM 3120             | 25-Sep-13/O           | 3.76                     |  |  |  |
| Arsenic                                 | mg/L     | 0.0001  | EPA 200.8           | 25-Sep-13/O           | 0.0003                   |  |  |  |
| Calcium                                 | mg/L     | 0.02    | SM 3120             | 25-Sep-13/O           | 23.2                     |  |  |  |
| Cadmium                                 | mg/L     | 0.005   | SM 3120             | 25-Sep-13/O           | < 0.005                  |  |  |  |
| Cobalt                                  | mg/L     | 0.005   | SM 3120             | 25-Sep-13/O           | < 0.005                  |  |  |  |
| Copper                                  | mg/L     | 0.002   | SM 3120             | 25-Sep-13/O           | 0.303                    |  |  |  |
| Chromium                                | mg/L     | 0.002   | SM 3120             | 25-Sep-13/O           | 0.005                    |  |  |  |
| Iron (Total)                            | mg/L     | 0.005   | SM 3120             | 25-Sep-13/O           | 1.76                     |  |  |  |
| Lead                                    | mg/L     | 0.02    | SM 3120             | 25-Sep-13/O           | < 0.02                   |  |  |  |
| Magnesium                               | mg/L     | 0.01    | SM 3120             | 25-Sep-13/O           | 5.89                     |  |  |  |
| Manganese (Total)                       | mg/L     | 0.001   | SM 3120             | 25-Sep-13/O           | 0.079                    |  |  |  |
| Mercury                                 | mg/L     | 0.00002 | SM 3112 B           | 25-Sep-13/O           | 0.00044                  |  |  |  |
| Nickel                                  | mg/L     | 0.01    | SM 3120             | 25-Sep-13/O           | < 0.01                   |  |  |  |
| Potassium                               | mg/L     | 0.1     | SM 3120             | 25-Sep-13/O           | 26.2                     |  |  |  |



Gord Murphy  
Lab Supervisor

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

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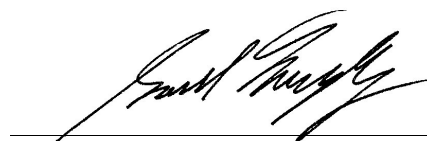
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|--------------------|--------------|---------------|-----------------------------|-------------------------------|----------|--|--|
|                    |              |               | <b>Sample I.D.</b>          | B13-25123-1                   |          |  |  |
|                    |              |               | <b>Date Collected</b>       | 19-Sep-13                     |          |  |  |
| <b>Parameter</b>   | <b>Units</b> | <b>M.D.L.</b> | <b>Reference<br/>Method</b> | <b>Date/Site<br/>Analyzed</b> |          |  |  |
| Sodium             | mg/L         | 0.2           | SM 3120                     | 25-Sep-13/O                   | 61.9     |  |  |
| Zinc               | mg/L         | 0.005         | SM 3120                     | 25-Sep-13/O                   | 0.605    |  |  |
| Oil & Grease-Total | mg/L         | 1.0           | SM 5520                     | 27-Sep-13/K                   | 84.0     |  |  |
| Fecal Coliform     | cfu/100mL    | 1             | MOE E3371                   | 24-Sep-13/O                   | 29000000 |  |  |



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