

Job NO. 4E2321

Qualifier Codes
Description

|     |  |
|-----|--|
| *   | PQLs are raised due to matrix interference.  |
| @   | PQLs are raised due to insufficient sample provided for analysis.  |
| \$  | The mass imbalance indicates the presence of other ions not measured as part of this procedure.  |
| nd  | <PQL   |
| --  | Not applicable   |
| LNR | The sample was listed on the COC, but not received.  |
| IS  | Insufficient sample was supplied to conduct this analysis.   |
| AN  | The analysis indicates the presences of an analyte that has been 'tentatively' identified, and the associated numerical value represents it's approximate concentration.             |
| A   | Sample results are reported on an 'as received' basis (not moisture corrected).  |
| B   | The sample was not received in a suitable timeframe to allow completion within the recommended holding time.   |
| C   | This sample was received with headspace.   |
| D   | This sample was received with the incorrect preservation for this analysis.  |
| E   | The raw data indicates the absence of 0.055g of Copper Sulphate in the sample.   |
| F   | This sample contained significant amounts of solids and was therefore analysed by settling and decanting the aqueous phase to avoid including the solid in the analysis portion.     |
| G   | This test was performed outside the recommended holding time.  |
| H   | This sample contained significant material >5mm which was removed prior to analysis.   |
| ISD | Insufficient sample was supplied to conduct duplicate analyses.  |
| ISM | Insufficient sample was supplied to conduct matrix spike analyses.   |
| W   | The spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference. |
| J   | The duplicate %RPD is outside the recommended acceptance criteria. Further analysis indicates sample heterogeneity as the cause.   |
| K   | The matrix spike concentration is less than five times the background concentration in the sample, and therefore the spike recovery can not be determined.                           |
| L   | The surrogate recovery is outside of the recommended acceptance criteria, due to matrix interference.  |
| M   | The surrogate recovery is outside of the recommended acceptance criteria. Insufficient sample remains to perform re-analysis.  |
| N   | Results are expressed in mg/L (ppm) due to the high concentration of the analyte.  |
| O   | The results reported are 'recoverable organics' for this fraction, as the chromatogram and peak shape indicates the presence of a significant concentration of polar compounds.      |
| P   | The concentration reported is mainly due to a single peak.   |
| Q   | This samples contains volatile halogenated oxygenated or other compounds that are included and quantitated as part of TPH C6-9.  |
| R   | Theoretically the total result should be greater or equal to the dissolved concentration. However the difference reported is within the uncertainty of the individual tests.         |
| S   | The mass imbalance was equal to or less than 0.2 milli-equivalents.  |
| T   | During Kjeldahl digestion, nitrate (>10mg/L) can oxidise ammonia resulting in a negative TKN interference, which may have occurred for this sample.                                  |
| U   | Theoretically the TKN result should be greater or equal to ammonia concentration. However the difference reported is within the uncertainty of the individual tests.                 |
| V   | This sample contained significant amounts of sediment which was included in the analysis portion as requested.   |
| SUR | Surrogate recoveries could not be determined due to the dilution required to quantify the analyte.   |

QAQC : Matrix Spike(s)

[illegible]

PQL = Practical Quantitation Limit  
nd = <PQL  
-- = Not Applicable

(S) Soils : mg/kg (ppm) dry weight  
(W) Waters : mg/L (ppm) unless otherwise specified

The number in brackets after the method header identifies the sample tested.









## **Appendix F Field Equipment Calibration & Insitu Permeability Test Documentation**

# PID Calibration Record

PID lamp: Minirae 2000

Calibration gas: Isobutylene

Calibration Concentration: 100ppm

[illegible]

Site: MacDonaldtown

Operator (Name & Signature): Andrea Faulkner + Cheryl Holden

Date: 7/12/04

PID Lamp Used: Minirae 2000

Calibration Gas: Isobutylene

Calibrant Concentration: 100ppm

Benzene Equivalent: \_\_\_\_\_ (multiply calibrant concentration by 70% if isobutylene)

[illegible]

| FORM STATUS                            |                                     |                    |   | Copy to            | Sent  | Comment          |
|--|-------------------------------------|--------------------|---|--------------------|-------|------------------|
| Mandatory .....                        | <input type="checkbox"/>            | Operator completes | → | Proj. Mgr. reviews | →     | Proj. Mgr. files |
| Optional (but with intent on file) ... | <input type="checkbox"/>            |                    |   |                    |       |                  |
| Guideline .....                        | <input checked="" type="checkbox"/> |                    |   |                    |       |                  |
|  |                                     |                    |   | Prepared by: ..... | ..... |                  |
|  |                                     |                    |   | File: .....        | ..... |                  |