



Technical Report for

ENCANA

NPR Monthly Sampling

Pond

Accutest Job Number: T52267

Sampling Date: 05/07/10

Report to:

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Total number of pages in report: 80



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

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Test results relate only to samples analyzed.

Table of Contents

-1-

| | |
|--|-----------|
| Section 1: Sample Summary | 3 |
| Section 2: Case Narrative/Conformance Summary | 4 |
| Section 3: Sample Results | 12 |
| 3.1: T52267-1: POND-050710 | 13 |
| 3.2: T52267-1F: POND-050710 (DISSOLVED) | 21 |
| Section 4: Misc. Forms | 22 |
| 4.1: Chain of Custody | 23 |
| Section 5: GC/MS Volatiles - QC Data Summaries | 26 |
| 5.1: Method Blank Summary | 27 |
| 5.2: Blank Spike Summary | 28 |
| 5.3: Matrix Spike/Matrix Spike Duplicate Summary | 29 |
| Section 6: GC Volatiles - QC Data Summaries | 30 |
| 6.1: Method Blank Summary | 31 |
| 6.2: Blank Spike/Blank Spike Duplicate Summary | 32 |
| Section 7: GC Semi-volatiles - QC Data Summaries | 33 |
| 7.1: Method Blank Summary | 34 |
| 7.2: Blank Spike Summary | 35 |
| 7.3: Matrix Spike/Matrix Spike Duplicate Summary | 36 |
| Section 8: Metals Analysis - QC Data Summaries | 37 |
| 8.1: Prep QC MP11766: Al,Sb,As,Ba,Be,B,Cd,Ca,Cr,Co,Cu,Fe,Pb,Li,Mg,Mn,Mo,Ni,K, Ag,Na,Sr,Tl,Ti,V,Zn | 38 |
| 8.2: Prep QC MP11825: Hg | 43 |
| Section 9: General Chemistry - QC Data Summaries | 47 |
| 9.1: Method Blank and Spike Results Summary | 48 |
| 9.2: Blank Spike Duplicate Results Summary | 49 |
| 9.3: Duplicate Results Summary | 50 |
| 9.4: Matrix Spike Results Summary | 51 |
| Section 10: Misc. Forms (Accutest Laboratories Southeast, Inc.) | 52 |
| 10.1: Chain of Custody | 53 |
| Section 11: GC Volatiles - QC Data (Accutest Laboratories Southeast, Inc.) | 55 |
| 11.1: Method Blank Summary | 56 |
| 11.2: Blank Spike Summary | 58 |
| 11.3: Matrix Spike Summary | 60 |
| 11.4: Matrix Spike/Matrix Spike Duplicate Summary | 61 |
| 11.5: Duplicate Summary | 62 |
| Section 12: Misc. Forms (Accutest New Jersey) | 63 |
| 12.1: Chain of Custody | 64 |
| Section 13: Metals Analysis - QC Data (Accutest New Jersey) | 66 |
| 13.1: Prep QC MP52689: Si | 67 |
| 13.2: Prep QC MP52689A: Se | 76 |



Sample Summary

ENCANA

Job No: T52267

NPR Monthly Sampling
Project No: Pond

| Sample Number | Collected | | Matrix | | | Client Sample ID |
|---------------|-----------|----------|----------|------|----------------|-------------------------|
| | Date | Time By | Received | Code | Type | |
| T52267-1 | 05/07/10 | 12:40 AS | 05/08/10 | AQ | Water | POND-050710 |
| T52267-1F | 05/07/10 | 12:40 AS | 05/08/10 | AQ | Water Filtered | POND-050710 (DISSOLVED) |

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: ENCANA

Job No T52267

Site: NPR Monthly Sampling

Report Date 5/20/2010 2:30:09 PM

2 Sample(s), were collected on 05/07/2010 and were received at Accutest on 05/08/2010 properly preserved, at 0.8 Deg. C and intact. These Samples received an Accutest job number of T52267. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VX545

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52269-1MS, T52269-1MSD were used as the QC samples indicated.

Volatiles by GC By Method RSKSOP-147/175

Matrix AQ **Batch ID:** F:GFF213

- T52267 Analysis performed at Accutest Laboratories, Orlando, FL.

Volatiles by GC By Method SW846 8015

Matrix AQ **Batch ID:** GEE2787

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Volatiles by GC By Method SW846 8015B

Matrix AQ **Batch ID:** F:GXY1826

- T52267: Analysis performed at Accutest Laboratories, Orlando, FL.

Extractables by GC By Method SW846 8015 M

Matrix AQ **Batch ID:** OP14769

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52417-2MS, T52417-2MSD were used as the QC samples indicated.
- Sample(s) T52267-1 have surrogates outside control limits. Outside control limits due to dilution.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP11766

- All samples were digested within the recommended method holding time.
- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52252-6DUP, T52252-6MS, T52252-6MSD, T52252-6SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Lithium, Titanium are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Antimony, Lithium, Titanium are outside control limits. Probable cause due to matrix interference.
- RPD(s) for Serial Dilution for Lead, Lithium, Beryllium, Boron, Cobalt, Nickel, Vanadium, Zinc are outside control limits for sample MP11766-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix AQ **Batch ID:** N:MP52689

- T52267 for Silicon: Analysis performed at Accutest Laboratories, Dayton, NJ.

Metals By Method SW846 7470A

Matrix AQ **Batch ID:** MP11825

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52595-16DUP, T52595-16MS, T52595-16MSD were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Mercury are outside control limits. Probable cause due to matrix interference.

Wet Chemistry By Method ASTM DEF

Matrix AQ **Batch ID:** GN22864

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52269-1DUP were used as the QC samples for Density.

Wet Chemistry By Method EPA 120.1

Matrix AQ **Batch ID:** GN22830

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T51989-1DUP were used as the QC samples for Specific Conductivity.

Wet Chemistry By Method EPA 1664

Matrix AQ **Batch ID:** GP8869

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52136-3DUP were used as the QC samples for HEM Oil And Grease.

Wet Chemistry By Method EPA 180.1

| | |
|------------------|--------------------------|
| Matrix AQ | Batch ID: GN22743 |
|------------------|--------------------------|

- All method blanks for this batch meet method specific criteria.
- Sample(s) T52267-1DUP were used as the QC samples for Turbidity.

Wet Chemistry By Method EPA 300/SW846 9056

| | |
|------------------|--------------------------|
| Matrix AQ | Batch ID: GN22882 |
|------------------|--------------------------|

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52269-1MS, T52269-1DUP were used as the QC samples for Nitrogen, Nitrate.
- Matrix Spike Recovery(s) for Nitrogen, Nitrate are outside control limits. Probable cause due to matrix interference.
- RPD(s) for Duplicate for Nitrogen, Nitrate are outside control limits for sample GN22882-D1. High RPD acceptable due to low sample and duplicate concentration.

| | |
|------------------|-------------------------|
| Matrix AQ | Batch ID: GP8871 |
|------------------|-------------------------|

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52269-1DUP, T52269-1MS were used as the QC samples for Chloride.

| | |
|------------------|-------------------------|
| Matrix AQ | Batch ID: GP8914 |
|------------------|-------------------------|

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52665-35DUP, T52665-35MS were used as the QC samples for Sulfate, Bromide, Fluoride, Sulfate.
- Matrix Spike Recovery(s) for Sulfate are outside control limits. Probable cause due to matrix interference.

Wet Chemistry By Method EPA 365.2

| | |
|------------------|-------------------------|
| Matrix AQ | Batch ID: GP8841 |
|------------------|-------------------------|

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52135-1DUP, T52135-1MS were used as the QC samples for Phosphorus, Total.

Wet Chemistry By Method SM 21 4500 NH3D

| | |
|------------------|-------------------------|
| Matrix AQ | Batch ID: GP8858 |
|------------------|-------------------------|

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52039-4DUP, T52039-4MS were used as the QC samples for Nitrogen, Ammonia.

Wet Chemistry By Method SM 2320B

| | |
|------------------|--------------------------|
| Matrix AQ | Batch ID: GN22772 |
|------------------|--------------------------|

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52269-1DUP, T52269-1MS were used as the QC samples for Alkalinity, Total as CaCO₃.

Wet Chemistry By Method SM 2340C

| | |
|------------------|--------------------------|
| Matrix AQ | Batch ID: GN22870 |
|------------------|--------------------------|

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52269-1DUP, T52269-1MS were used as the QC samples for Hardness, Total as CaCO₃.

Wet Chemistry By Method SM 2540C

| | |
|------------------|--------------------------|
| Matrix AQ | Batch ID: GN22748 |
|------------------|--------------------------|

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52206-1DUP were used as the QC samples for Solids, Total Dissolved.

Wet Chemistry By Method SM 2540D

| | |
|------------------|--------------------------|
| Matrix AQ | Batch ID: GN22754 |
|------------------|--------------------------|

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52366-4DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method SM 4500 CO2 D

| | |
|------------------|--------------------------|
| Matrix AQ | Batch ID: GN22771 |
|------------------|--------------------------|

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52269-1DUP were used as the QC samples for Alkalinity, Bicarbonate.

Wet Chemistry By Method SM 4500H+B/9040

| | |
|------------------|--------------------------|
| Matrix AQ | Batch ID: GN22716 |
|------------------|--------------------------|

- Sample(s) T52267-1DUP were used as the QC samples for pH.

Wet Chemistry By Method SM 4500S+F

| | |
|------------------|--------------------------|
| Matrix AQ | Batch ID: GN22786 |
|------------------|--------------------------|

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM 5210B

| | |
|------------------|-------------------------|
| Matrix AQ | Batch ID: GP8836 |
|------------------|-------------------------|

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52269-1DUP were used as the QC samples for BOD, 5 Day.

Wet Chemistry By Method SM 5220D

Matrix AQ **Batch ID:** GP8901

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52524-2DUP, T52524-2MS were used as the QC samples for Chemical Oxygen Demand.

Wet Chemistry By Method SM18 2320B

Matrix AQ **Batch ID:** GN22741

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52269-1DUP were used as the QC samples for Alkalinity, Carbonate.

Wet Chemistry By Method SM18 4500CO2D

Matrix AQ **Batch ID:** GN22941

- All method blanks for this batch meet method specific criteria.
- Sample(s) T52269-1DUP were used as the QC samples for Carbon Dioxide.

Wet Chemistry By Method SM21 9222B

Matrix AQ **Batch ID:** MB1459

- All method blanks for this batch meet method specific criteria.
- Sample(s) T52269-1DUP were used as the QC samples for Coliform, Total.
- RPD(s) for Duplicate for Coliform, Total are outside control limits for sample MB1459-DUP.

Wet Chemistry By Method SM21 9222D

Matrix AQ **Batch ID:** MB1445

- All method blanks for this batch meet method specific criteria.
- Sample(s) T52204-1DUP were used as the QC samples for Coliform, Fecal.

Wet Chemistry By Method SM21 9223B

Matrix AQ **Batch ID:** MB1447

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52205-1DUP were used as the QC samples for E. coli.

Wet Chemistry By Method SM4500 O C/EPA 360.1

Matrix AQ **Batch ID:** GN22940

- Sample(s) T52267-1DUP were used as the QC samples for Oxygen, Dissolved.

Wet Chemistry By Method SM5310B/9060A

Matrix AQ

Batch ID: GP8897

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52373-1DUP, T52373-1MS were used as the QC samples for Total Organic Carbon.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Accutest Laboratories Gulf Coast, Inc.

Job No T52267

Site: ENCACOP: Project NPR/MF Pond

Report Date 5/19/2010 5:12:23 PM

On 05/08/2010, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3.4 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of T52267 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP52689

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52267-1MSD, T52267-1SDL, T52267-1MS were used as the QC samples for metals.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Silicon are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Metals By Method SW846 6020

Matrix: AQ

Batch ID: MP52689A

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T52267-1MS, T52267-1MSD, T52267-1SDL were used as the QC samples for metals.
- T52267-1 for Selenium: Elevated detection limit due to dilution required for matrix interference.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest Laboratories Gulf Coast, Inc.

Job No: T52267

Site: ENCACOP: Project NPR/MF Pond

Report Date 5/17/2010 9:32:01 AM

1 Sample was collected on 05/07/2010 and was received at Accutest, SE on 05/12/2010 properly preserved, at 4.8 Deg. C and intact. This Sample received an Accutest job number of T52267. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method RSKSOP-147/175

Matrix: AQ

Batch ID: GFF213

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F73452-8ADUP, F73452-8AMS were used as the QC samples indicated.

Matrix Spike Recovery(s) for Methane are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to SB.

Volatiles by GC By Method SW846 8015B

Matrix: AQ

Batch ID: GXY1826

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F73560-1MS, F73560-1MSD were used as the QC samples indicated.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Lovelie Metzgar, QA Assistant (signature on file)

Date: May 17, 2010



Sample Results

Report of Analysis

Report of Analysis

| | |
|--------------------------------------|--------------------------------|
| Client Sample ID: POND-050710 | |
| Lab Sample ID: T52267-1 | Date Sampled: 05/07/10 |
| Matrix: AQ - Water | Date Received: 05/08/10 |
| Method: SW846 8260B | Percent Solids: n/a |
| Project: NPR Monthly Sampling | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|-----|----------|----|-----------|------------|------------------|
| Run #1 | X0061283.D | 500 | 05/13/10 | JL | n/a | n/a | VX545 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2 | Benzene | 4.56 | 1.0 | 0.25 | mg/l | |
| 108-88-3 | Toluene | 9.22 | 1.0 | 0.22 | mg/l | |
| 100-41-4 | Ethylbenzene | 0.294 | 1.0 | 0.27 | mg/l | J |
| 1330-20-7 | Xylene (total) | 5.69 | 3.0 | 0.84 | mg/l | |
| 141-78-6 | Ethyl Acetate | ND | 5.0 | 5.0 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 91% | | 79-122% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87% | | 75-121% |
| 2037-26-5 | Toluene-D8 | 90% | | 87-119% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 80-133% |

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--------------------------------------|--------------------------------|
| Client Sample ID: POND-050710 | Date Sampled: 05/07/10 |
| Lab Sample ID: T52267-1 | Date Received: 05/08/10 |
| Matrix: AQ - Water | Percent Solids: n/a |
| Method: SW846 8015B | |
| Project: NPR Monthly Sampling | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------|-----|-----------|------------|------------------|
| Run #1 ^a | XY044011.D | 1 | 05/13/10 | AFL | n/a | n/a | F:GXY1826 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1.0 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------|--------|-----|-----|-------|---|
| 64-17-5 | Ethanol | ND | 5.0 | 2.0 | mg/l | |
| 67-56-1 | Methanol | 76.3 | 5.0 | 2.0 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 111-27-3 | Hexanol | 90% | | 51-161% |

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

| | |
|--------------------------------------|--------------------------------|
| Client Sample ID: POND-050710 | |
| Lab Sample ID: T52267-1 | Date Sampled: 05/07/10 |
| Matrix: AQ - Water | Date Received: 05/08/10 |
| Method: RSKSOP-147/175 | Percent Solids: n/a |
| Project: NPR Monthly Sampling | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 ^a | FF04940.D | 1 | 05/13/10 | AFL | n/a | n/a | F:GFF213 |
| Run #2 | | | | | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------|--------|---------|---------|-------|---|
| 74-82-8 | Methane | 0.903 | 0.00050 | 0.00016 | mg/l | |

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

| | |
|--------------------------------------|--------------------------------|
| Client Sample ID: POND-050710 | |
| Lab Sample ID: T52267-1 | Date Sampled: 05/07/10 |
| Matrix: AQ - Water | Date Received: 05/08/10 |
| Method: SW846 8015 | Percent Solids: n/a |
| Project: NPR Monthly Sampling | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|-----|----------|----|-----------|------------|------------------|
| Run #1 | EE054736.D | 250 | 05/13/10 | LB | n/a | n/a | GEE2787 |
| Run #2 | | | | | | | |

| | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|----------------------|--------|--------|---------|-------|---|
| | TPH-GRO (C6-C10) | 79.0 | 13 | 1.5 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 460-00-4 | 4-Bromofluorobenzene | 112% | | 42-123% | | |
| 98-08-8 | aaa-Trifluorotoluene | 101% | | 51-130% | | |

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

| | |
|---|--------------------------------|
| Client Sample ID: POND-050710 | Date Sampled: 05/07/10 |
| Lab Sample ID: T52267-1 | Date Received: 05/08/10 |
| Matrix: AQ - Water | Percent Solids: n/a |
| Method: SW846 8015 M SW846 3510C | |
| Project: NPR Monthly Sampling | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | IF197228.D | 10 | 05/12/10 | EM | 05/12/10 | OP14769 | GIB1003 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------------------|-----------------|--------|---------|-------|---|
| | TPH (C10-C28) | 16.7 | 1.0 | 0.23 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 84-15-1 | o-Terphenyl | 0% ^a | | 25-112% | | |

(a) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

31
3

| | |
|--------------------------------------|--------------------------------|
| Client Sample ID: POND-050710 | Date Sampled: 05/07/10 |
| Lab Sample ID: T52267-1 | Date Received: 05/08/10 |
| Matrix: AQ - Water | Percent Solids: n/a |
| Project: NPR Monthly Sampling | |

Total Metals Analysis

| Analyte | Result | RL | MDL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------------------|-----------|---------|----------|-------|----|----------|--------------|--------------------------|---------------------------|
| Aluminum | 0.654 | 0.20 | 0.017 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Antimony | 0.015 U | 0.025 | 0.015 | mg/l | 5 | 05/12/10 | 05/18/10 NS | SW846 6010B ⁴ | SW846 3010A ⁷ |
| Arsenic | 0.0020 U | 0.0050 | 0.0020 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Barium | 46.1 | 1.0 | 0.014 | mg/l | 5 | 05/12/10 | 05/18/10 NS | SW846 6010B ⁴ | SW846 3010A ⁷ |
| Beryllium | 0.00020 U | 0.0050 | 0.00020 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Boron | 6.25 | 0.10 | 0.0021 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Cadmium | 0.00030 U | 0.0040 | 0.00030 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Calcium | 314 | 5.0 | 0.035 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Chromium | 0.0019 U | 0.010 | 0.0019 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Cobalt | 0.0189 B | 0.050 | 0.00080 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Copper | 0.0059 U | 0.025 | 0.0059 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Iron | 17.9 | 0.10 | 0.013 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Lead | 0.0017 U | 0.0030 | 0.0017 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Lithium | 3.51 | 0.30 | 0.0020 | mg/l | 1 | 05/12/10 | 05/18/10 NS | SW846 6010B ³ | SW846 3010A ⁷ |
| Magnesium | 21.2 | 5.0 | 0.0078 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Manganese | 0.675 | 0.015 | 0.0076 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Mercury | 0.00057 | 0.00020 | 0.000094 | mg/l | 1 | 05/18/10 | 05/18/10 NS | SW846 7470A ² | SW846 7470A ⁸ |
| Molybdenum | 0.0077 B | 0.010 | 0.0013 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Nickel | 0.0032 U | 0.040 | 0.0032 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Potassium | 97.0 | 25 | 0.27 | mg/l | 5 | 05/12/10 | 05/18/10 NS | SW846 6010B ⁴ | SW846 3010A ⁷ |
| Selenium ^a | 0.0202 | 0.0050 | 0.00028 | mg/l | 5 | 05/14/10 | 05/17/10 ANJ | SW846 6020 ⁵ | SW846 3010A ¹⁰ |
| Silicon ^b | 42.7 | 0.40 | 0.029 | mg/l | 2 | 05/14/10 | 05/18/10 ANJ | SW846 6010B ⁶ | SW846 3010A ⁹ |
| Silver | 0.00080 U | 0.010 | 0.00080 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Sodium | 5330 | 250 | 6.7 | mg/l | 50 | 05/12/10 | 05/18/10 NS | SW846 6010B ⁴ | SW846 3010A ⁷ |
| Strontium | 29.6 | 0.20 | 0.0040 | mg/l | 10 | 05/12/10 | 05/18/10 NS | SW846 6010B ⁴ | SW846 3010A ⁷ |
| Thallium | 0.0026 U | 0.010 | 0.0026 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Titanium | 0.00030 U | 0.020 | 0.00030 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Vanadium | 0.0012 B | 0.050 | 0.00060 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |
| Zinc | 0.180 | 0.020 | 0.0041 | mg/l | 1 | 05/12/10 | 05/16/10 NS | SW846 6010B ¹ | SW846 3010A ⁷ |

- (1) Instrument QC Batch: MA4747
- (2) Instrument QC Batch: MA4750
- (3) Instrument QC Batch: MA4751
- (4) Instrument QC Batch: MA4752
- (5) Instrument QC Batch: N:MA24294
- (6) Instrument QC Batch: N:MA24307
- (7) Prep QC Batch: MP11766
- (8) Prep QC Batch: MP11825
- (9) Prep QC Batch: N:MP52689
- (10) Prep QC Batch: N:MP52689A

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

| | |
|--------------------------------------|--------------------------------|
| Client Sample ID: POND-050710 | Date Sampled: 05/07/10 |
| Lab Sample ID: T52267-1 | Date Received: 05/08/10 |
| Matrix: AQ - Water | Percent Solids: n/a |
| Project: NPR Monthly Sampling | |

Total Metals Analysis

| Analyte | Result | RL | MDL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|---------|--------|----|-----|-------|----|------|-------------|--------|-------------|
|---------|--------|----|-----|-------|----|------|-------------|--------|-------------|

- (a) Elevated detection limit due to dilution required for matrix interference. Analysis performed at Accutest Laboratories, Dayton, NJ.
- (b) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

| | |
|--------------------------------------|--------------------------------|
| Client Sample ID: POND-050710 | Date Sampled: 05/07/10 |
| Lab Sample ID: T52267-1 | Date Received: 05/08/10 |
| Matrix: AQ - Water | Percent Solids: n/a |
| Project: NPR Monthly Sampling | |

General Chemistry

| Analyte | Result | RL | MDL | Units | DF | Analyzed | By | Method |
|--------------------------------|--------|------|--------|-----------|------|----------------|----|----------------------|
| Alkalinity, Bicarbonate | 632 | 5.0 | 0.66 | mg/l | 1 | 05/17/10 | MC | SM 4500 CO2 D |
| Alkalinity, Carbonate | 0.66 U | 5.0 | 0.66 | mg/l | 1 | 05/17/10 | MC | SM18 2320B |
| Alkalinity, Total as CaCO3 | 632 | 5.0 | 1.7 | mg/l | 1 | 05/17/10 | MC | SM 2320B |
| BOD, 5 Day | 575 | 300 | 150 | mg/l | 1 | 05/08/10 | YT | SM 5210B |
| Bromide | 49.7 | 10 | 2.0 | mg/l | 20 | 05/20/10 15:51 | BF | EPA 300/SW846 9056 |
| Carbon Dioxide | 225 | 5.0 | | mg/l | 1 | 05/20/10 | SS | SM18 4500CO2D |
| Chemical Oxygen Demand | 1130 | 250 | 21 | mg/l | 5 | 05/18/10 | SS | SM 5220D |
| Chloride | 6620 | 500 | 190 | mg/l | 1000 | 05/14/10 18:19 | BF | EPA 300/SW846 9056 |
| Coliform, Fecal ^a | < 2 | 2 | | cfu/100ml | 1 | 05/08/10 13:00 | KJ | SM21 9222D |
| Coliform, Total ^b | 150 | 1 | | cfu/100ml | 1 | 05/10/10 12:00 | MS | SM21 9222B |
| Density | 1.0 | | | g/ml | 1 | 05/18/10 13:30 | MC | ASTM DEF |
| E. coli ^a | < 1 | 1 | | mpn/100ml | 1 | 05/08/10 | KJ | SM21 9223B |
| Fluoride | 32.3 | 2.5 | 1.3 | mg/l | 5 | 05/18/10 19:13 | BF | EPA 300/SW846 9056 |
| HEM Oil And Grease | 4.2 | 2.0 | 0.90 | mg/l | 1 | 05/15/10 | MC | EPA 1664 |
| Hardness, Total as CaCO3 | 1000 | 50 | 15 | mg/l | 10 | 05/18/10 10:00 | CV | SM 2340C |
| Hydrogen Sulfide | < 2.0 | 2.0 | | mg/l | 1 | 05/18/10 | CV | SM18 4500/EPA 376.1 |
| Nitrogen, Ammonia ^c | 6.0 | 0.40 | 0.0060 | mg/l | 4 | 05/14/10 10:27 | BF | SM 21 4500 NH3D |
| Nitrogen, Nitrate | 0.12 U | 0.50 | 0.12 | mg/l | 1 | 05/08/10 20:36 | BF | EPA 300/SW846 9056 |
| Oxygen, Dissolved | 11.3 | 1.0 | | mg/l | 1 | 05/08/10 15:00 | CF | SM4500 O C/EPA 360.1 |
| Phosphorus, Total | 0.53 | 0.10 | 0.050 | mg/l | 1 | 05/12/10 16:18 | BG | EPA 365.2 |
| Solids, Total Dissolved | 15200 | 170 | 44 | mg/l | 1 | 05/12/10 | BG | SM 2540C |
| Solids, Total Suspended | 90.0 | 6.0 | 3.0 | mg/l | 1 | 05/12/10 | CF | SM 2540D |
| Specific Conductivity | 24800 | 1.0 | | umhos/cm | 1 | 05/17/10 09:30 | MC | EPA 120.1 |
| Sulfate | 5.7 | 2.5 | 0.75 | mg/l | 5 | 05/18/10 19:13 | BF | EPA 300/SW846 9056 |
| Total Organic Carbon | 242 | 5.0 | 1.6 | mg/l | 5 | 05/18/10 12:35 | MC | SM5310B/9060A |
| Turbidity | 55.2 | 2.0 | 0.14 | NTU | 2 | 05/12/10 10:00 | KD | EPA 180.1 |
| pH | 6.99 | | | su | 1 | 05/11/10 16:30 | RR | SM 4500H+ B/9040 |

(a) Sample analyzed beyond hold time per client request.

(b) Analyzed outside holding time per client request.

(c) Analysis performed by Southwest Environmental Laboratories, Inc. Certification #T104704237-09-TX

RL = Reporting Limit

MDL = Method Detection Limit

U = Indicates a result < MDL

B = Indicates a result > = MDL but < RL

Report of Analysis

| | | | |
|--------------------------|-------------------------|------------------------|----------|
| Client Sample ID: | POND-050710 (DISSOLVED) | | |
| Lab Sample ID: | T52267-1F | Date Sampled: | 05/07/10 |
| Matrix: | AQ - Water Filtered | Date Received: | 05/08/10 |
| Project: | NPR Monthly Sampling | Percent Solids: | n/a |

General Chemistry

| Analyte | Result | RL | MDL | Units | DF | Analyzed | By | Method |
|---------|--------|------|------|-------|----|----------------|----|-------------|
| Sulfide | 0.15 U | 0.20 | 0.15 | mg/l | 1 | 05/14/10 11:00 | KD | SM 4500S+ F |

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Analyte list

Encana Water Testing Quote - valid through 12/31/10.

| Analyte/Test | Method |
|--|---------------------|
| Metals | |
| 23 TAL Metals, includes Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Na, Ni, Pb, Sb, Ti, V, Zn | |
| Boron | 6010 |
| Lithium | |
| Molybdenum | |
| Selenium | 6020 |
| Silicon | |
| Strontium | |
| Titanium | |
| Alkalinity | |
| Bicarbonate | SM 2320B |
| Carbonate | SM 4500 CO2D "Calc" |
| Free Carbon Dioxide | SM 4500 CO2D "Calc" |
| Anions | |
| Bromide | 300 |
| Chloride | |
| Fluoride | |
| Nitrate | |
| Sulfate | |
| BOD | SM5210B |
| BTEX | 8260 |
| COD | 410.4 |
| Coliforms | |
| E Coli | |
| Total Coliform | |
| Fecal Coliform | |
| Density | 27.10F |
| Dissolved Oxygen | 360 |
| Dissolved Sulfide | |
| H2S Calculation | SM 4500-S2 D |
| Hardness | |
| Methanol | SM 2340C |
| Ethanol | 8015 |
| Ethyl Acetate | 8015 |
| Ammonia Nitrogen | 8260 |
| Oil & Grease | 350.3 |
| pH | 1664 |
| Total Phosphorus | 9040C |
| Methane | SM 4500 PE |
| TDS | RSK 175 |
| TOC | SM 2640C |
| TPH | 415.1 |
| GRO | 8015 |
| DRO | 8015 |
| Specific Conductance | 120.1 |
| TSS | SM 2540D |
| Turbidity | 180.1 |

T52267: Chain of Custody
Page 2 of 3



GC/MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T52267
Account: ENCACOP ENCANA
Project: NPR Monthly Sampling

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|----------|------------|----|----------|----|-----------|------------|------------------|
| VX545-MB | X0061282.D | 1 | 05/13/10 | JL | n/a | n/a | VX545 |

The QC reported here applies to the following samples:

Method: SW846 8260B

T52267-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2 | Benzene | ND | 2.0 | 0.50 | ug/l | |
| 141-78-6 | Ethyl Acetate | ND | 10 | 10 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 2.0 | 0.55 | ug/l | |
| 108-88-3 | Toluene | ND | 2.0 | 0.43 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 6.0 | 1.7 | ug/l | |

| CAS No. | Surrogate Recoveries | Limits |
|------------|-----------------------|-------------|
| 1868-53-7 | Dibromofluoromethane | 90% 79-122% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% 75-121% |
| 2037-26-5 | Toluene-D8 | 92% 87-119% |
| 460-00-4 | 4-Bromofluorobenzene | 91% 80-133% |

Blank Spike Summary

Job Number: T52267
Account: ENCACOP ENCANA
Project: NPR Monthly Sampling

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|----------|------------|----|----------|----|-----------|------------|------------------|
| VX545-BS | X0061280.D | 1 | 05/13/10 | JL | n/a | n/a | VX545 |

The QC reported here applies to the following samples:

Method: SW846 8260B

T52267-1

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|----------------|---------------|-------------|----------|--------|
| 71-43-2 | Benzene | 25 | 25.2 | 101 | 76-118 |
| 141-78-6 | Ethyl Acetate | 125 | 113 | 90 | 70-130 |
| 100-41-4 | Ethylbenzene | 25 | 26.0 | 104 | 75-112 |
| 108-88-3 | Toluene | 25 | 25.5 | 102 | 77-114 |
| 1330-20-7 | Xylene (total) | 75 | 78.6 | 105 | 75-111 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|------------|-----------------------|-----|---------|
| 1868-53-7 | Dibromofluoromethane | 90% | 79-122% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 84% | 75-121% |
| 2037-26-5 | Toluene-D8 | 92% | 87-119% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | 80-133% |

5.2.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T52267
Account: ENCACOP ENCANA
Project: NPR Monthly Sampling

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------------------|------------|-----|----------|----|-----------|------------|------------------|
| T52269-1MS | X0061286.D | 500 | 05/13/10 | JL | n/a | n/a | VX545 |
| T52269-1MSD | X0061287.D | 500 | 05/13/10 | JL | n/a | n/a | VX545 |
| T52269-1 ^a | X0061285.D | 500 | 05/13/10 | JL | n/a | n/a | VX545 |

The QC reported here applies to the following samples:

Method: SW846 8260B

T52267-1

| CAS No. | Compound | T52269-1 ug/l | Spike Q ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|-----------|----------------|------------------|--------------------|------------|---------|-------------|----------|-----|-------------------|
| 71-43-2 | Benzene | ND | 12500 | 12900 | 103 | 12500 | 100 | 3 | 76-118/16 |
| 141-78-6 | Ethyl Acetate | ND | 62500 | 56700 | 91 | 62100 | 99 | 9 | 70-130/30 |
| 100-41-4 | Ethylbenzene | ND | 12500 | 13200 | 106 | 13000 | 104 | 2 | 75-112/12 |
| 108-88-3 | Toluene | ND | 12500 | 13100 | 105 | 13000 | 104 | 1 | 77-114/12 |
| 1330-20-7 | Xylene (total) | ND | 37500 | 39800 | 106 | 39500 | 105 | 1 | 75-111/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | T52269-1 | Limits |
|------------|-----------------------|-----|-----|----------|---------|
| 1868-53-7 | Dibromofluoromethane | 90% | 89% | 91% | 79-122% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87% | 87% | 89% | 75-121% |
| 2037-26-5 | Toluene-D8 | 92% | 92% | 91% | 87-119% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | 90% | 90% | 80-133% |

(a) Reported for QC purposes only.

5.3.1
5



GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T52267
Account: ENCACOP ENCANA
Project: NPR Monthly Sampling

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|------------|----|----------|----|-----------|------------|------------------|
| GEE2787-MB | EE054726.D | 1 | 05/13/10 | LB | n/a | n/a | GEE2787 |

The QC reported here applies to the following samples:

Method: SW846 8015

T52267-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|------------------|--------|-------|--------|-------|---|
| | TPH-GRO (C6-C10) | ND | 0.050 | 0.0060 | mg/l | |

| CAS No. | Surrogate Recoveries | Limits | |
|----------|----------------------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 77% | 42-123% |
| 98-08-8 | aaa-Trifluorotoluene | 93% | 51-130% |

6.1.1
6

Blank Spike/Blank Spike Duplicate Summary

Job Number: T52267
Account: ENCACOP ENCANA
Project: NPR Monthly Sampling

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|------------|----|----------|----|-----------|------------|------------------|
| GEE2787-BS | EE054723.D | 1 | 05/13/10 | LB | n/a | n/a | GEE2787 |
| GEE2787-BSD | EE054724.D | 1 | 05/13/10 | LB | n/a | n/a | GEE2787 |

The QC reported here applies to the following samples:

Method: SW846 8015

T52267-1

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | BSD mg/l | BSD % | RPD | Limits Rec/RPD |
|---------|------------------|------------|----------|-------|----------|-------|-----|----------------|
| | TPH-GRO (C6-C10) | 0.4 | 0.392 | 98 | 0.376 | 94 | 4 | 81-113/30 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|----------|----------------------|------|------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 105% | 105% | 42-123% |
| 98-08-8 | aaa-Trifluorotoluene | 102% | 101% | 51-130% |



GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T52267
Account: ENCACOP ENCANA
Project: NPR Monthly Sampling

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|------------|----|----------|----|-----------|------------|------------------|
| OP14769-MB | IF197229.D | 1 | 05/12/10 | EM | 05/12/10 | OP14769 | GIF1003 |

The QC reported here applies to the following samples:

Method: SW846 8015 M

T52267-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|---------------|--------|------|-------|-------|---|
| | TPH (C10-C28) | ND | 0.10 | 0.023 | mg/l | |

| CAS No. | Surrogate Recoveries | Limits |
|---------|----------------------|-------------|
| 84-15-1 | o-Terphenyl | 68% 25-112% |

7.1.1
7

Blank Spike Summary

Job Number: T52267
Account: ENCACOP ENCANA
Project: NPR Monthly Sampling

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|------------|----|----------|----|-----------|------------|------------------|
| OP14769-BS | IF197211.D | 1 | 05/12/10 | EM | 05/12/10 | OP14769 | GIF1003 |

The QC reported here applies to the following samples:

Method: SW846 8015 M

T52267-1

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---------|---------------|------------|----------|-------|--------|
| | TPH (C10-C28) | 1 | 0.538 | 54 | 22-84 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---------|----------------------|-----|---------|
| 84-15-1 | o-Terphenyl | 66% | 25-112% |

7.2.1

7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T52267
Account: ENCACOP ENCANA
Project: NPR Monthly Sampling

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|------------|----|----------|----|-----------|------------|------------------|
| OP14769-MS | IF197212.D | 1 | 05/12/10 | EM | 05/12/10 | OP14769 | GIB1003 |
| OP14769-MSD | IF197213.D | 1 | 05/12/10 | EM | 05/12/10 | OP14769 | GIF1003 |
| T52417-2 | IF197215.D | 1 | 05/12/10 | EM | 05/12/10 | OP14769 | GIF1003 |

The QC reported here applies to the following samples:

Method: SW846 8015 M

T52267-1

| CAS No. | Compound | T52417-2 mg/l | Spike Q mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---------|---------------|------------------|--------------------|------------|---------|-------------|----------|-----|-------------------|
| | TPH (C10-C28) | 0.10 U | 2 | 1.65 | 83 | 1.65 | 83 | 0 | 22-84/36 |

| CAS No. | Surrogate Recoveries | MS | MSD | T52417-2 | Limits |
|---------|----------------------|-----|-----|----------|---------|
| 84-15-1 | o-Terphenyl | 84% | 63% | 76% | 25-112% |

7.3.1
7



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T52267
Account: ENCACOP - ENCANA
Project: NPR Monthly Sampling

QC Batch ID: MP11766
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 05/12/10

| Metal | RL | IDL | MDL | MB raw | final |
|------------|------|------|-----|-----------|-------|
| Aluminum | 200 | 8.3 | 12 | 75.5 | <200 |
| Antimony | 5.0 | 1 | 1 | 1.6 | <5.0 |
| Arsenic | 5.0 | 1.7 | 1 | -0.78 | <5.0 |
| Barium | 200 | .14 | 2.7 | 0.11 | <200 |
| Beryllium | 5.0 | .056 | .16 | -0.44 | <5.0 |
| Boron | 100 | 1.1 | 2.1 | 10.5 | <100 |
| Cadmium | 4.0 | .11 | .09 | 0.050 | <4.0 |
| Calcium | 5000 | 5.4 | 25 | 3.3 | <5000 |
| Chromium | 10 | .23 | .27 | -0.62 | <10 |
| Cobalt | 50 | .15 | .22 | 0.22 | <50 |
| Copper | 25 | .58 | 5.9 | -1.5 | <25 |
| Iron | 100 | 1.1 | 13 | -31 | <100 |
| Lead | 3.0 | 1 | 1.7 | 0.82 | <3.0 |
| Lithium | 300 | 2 | 2 | 2.6 | <300 |
| Magnesium | 5000 | 6.7 | 7.8 | 1.9 | <5000 |
| Manganese | 15 | .054 | 1.9 | 0.0 | <15 |
| Molybdenum | 10 | .39 | .2 | 0.59 | <10 |
| Nickel | 40 | .69 | 1.4 | 0.23 | <40 |
| Potassium | 5000 | 39 | 45 | -18 | <5000 |
| Selenium | 5.0 | 1.5 | .98 | | |
| Silver | 10 | .85 | .24 | -0.54 | <10 |
| Sodium | 5000 | 9.2 | 100 | 12.8 | <5000 |
| Strontium | 10 | .061 | .4 | 0.42 | <20 |
| Thallium | 10 | .67 | 1.2 | 0.38 | <10 |
| Tin | 20 | .69 | 2.8 | | |
| Titanium | 20 | .29 | .3 | 0.080 | <20 |
| Vanadium | 50 | .3 | .3 | 0.10 | <50 |
| Zinc | 20 | .49 | 3.5 | 0.060 | <20 |

Associated samples MP11766: T52267-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.1.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T52267
 Account: ENCACOP - ENCANA
 Project: NPR Monthly Sampling

QC Batch ID: MP11766
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/12/10 05/12/10

| Metal | T52252-6 Original | DUP | RPD | QC Limits | T52252-6 Original MS | Spikelot MPTW4 | % Rec | QC Limits | |
|------------|----------------------|-------|-----|--------------|-------------------------|-------------------|-------|--------------|--------|
| Aluminum | 70500 | 66400 | 6.0 | 0-20 | 70500 | 124000 | 50000 | 107.0 | 80-120 |
| Antimony | 0.0 | 0.0 | NC | 0-20 | 0.0 | 143 | 400 | 35.8N | 80-120 |
| Arsenic | 42.5 | 41.5 | 2.4 | 0-20 | 42.5 | 407 | 400 | 91.1 | 80-120 |
| Barium | 683 | 664 | 2.8 | 0-20 | 683 | 1110 | 400 | 106.8 | 80-120 |
| Beryllium | 7.8 | 7.5 | 3.9 | 0-20 | 7.8 | 386 | 400 | 94.6 | 80-120 |
| Boron | 70.2 | 66.9 | 4.8 | 0-20 | 70.2 | 1040 | 1000 | 97.1 | 80-120 |
| Cadmium | 0.0 | 0.0 | NC | 0-20 | 0.0 | 380 | 400 | 95.0 | 80-120 |
| Calcium | 95300 | 93200 | 2.2 | 0-20 | 95300 | 145000 | 50000 | 99.4 | 80-120 |
| Chromium | 64.2 | 61.0 | 5.1 | 0-20 | 64.2 | 443 | 400 | 94.7 | 80-120 |
| Cobalt | 62.7 | 60.5 | 3.6 | 0-20 | 62.7 | 430 | 400 | 91.8 | 80-120 |
| Copper | 72.4 | 69.7 | 3.8 | 0-20 | 72.4 | 466 | 400 | 98.4 | 80-120 |
| Iron | 75200 | 71700 | 4.8 | 0-20 | 75200 | 121000 | 50000 | 91.6 | 80-120 |
| Lead | 44.9 | 43.7 | 2.7 | 0-20 | 44.9 | 421 | 400 | 94.0 | 80-120 |
| Lithium | 35.9 | 34.0 | 5.4 | 0- | 35.9 | 421 | 200 | 192.6N | - |
| Magnesium | 24600 | 23600 | 4.1 | 0-20 | 24600 | 73400 | 50000 | 97.6 | 80-120 |
| Manganese | 3490 | 3410 | 2.3 | 0-20 | 3490 | 3870 | 400 | 95.0 | 80-120 |
| Molybdenum | 9.2 | 8.7 | 5.6 | 0-20 | 9.2 | 354 | 400 | 86.2 | 80-120 |
| Nickel | 101 | 98.2 | 2.8 | 0-20 | 101 | 484 | 400 | 95.8 | 80-120 |
| Potassium | 7350 | 6970 | 5.3 | 0-20 | 7350 | 54500 | 50000 | 94.3 | 80-120 |
| Selenium | anr | | | | | | | | |
| Silver | 0.0 | 0.0 | NC | 0-20 | 0.0 | 388 | 400 | 97.0 | 80-120 |
| Sodium | 45400 | 44400 | 2.2 | 0-20 | 45400 | 92800 | 50000 | 94.8 | 80-120 |
| Strontium | 241 | 235 | 2.5 | 0- | 241 | 587 | 200 | 173.0 | - |
| Thallium | 0.0 | 0.0 | NC | 0-20 | 0.0 | 353 | 400 | 88.3 | 80-120 |
| Tin | | | | | | | | | |
| Titanium | 159 | 157 | 1.3 | 0-20 | 159 | 379 | 400 | 55.0N | 80-120 |
| Vanadium | 88.5 | 84.1 | 5.1 | 0-20 | 88.5 | 474 | 400 | 96.4 | 80-120 |
| Zinc | 76.6 | 72.3 | 5.8 | 0-20 | 76.6 | 467 | 400 | 97.6 | 80-120 |

Associated samples MP11766: T52267-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

8.12
 8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T52267
 Account: ENCACOP - ENCANA
 Project: NPR Monthly Sampling

QC Batch ID: MP11766
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/12/10

| Metal | T52252-6 Original | MSD | Spike/lot MPTW4 | % Rec | MSD RPD | QC Limit |
|------------|----------------------|--------|--------------------|----------|------------|-------------|
| Aluminum | 70500 | 118000 | 50000 | 95.0 | 5.0 | 20 |
| Antimony | 0.0 | 137 | 400 | 34.3N | 4.3 | 20 |
| Arsenic | 42.5 | 395 | 400 | 88.1 | 3.0 | 20 |
| Barium | 683 | 1070 | 400 | 96.8 | 3.7 | 20 |
| Beryllium | 7.8 | 378 | 400 | 92.6 | 2.1 | 20 |
| Boron | 70.2 | 1010 | 1000 | 94.0 | 2.9 | 20 |
| Cadmium | 0.0 | 371 | 400 | 92.8 | 2.4 | 20 |
| Calcium | 95300 | 140000 | 50000 | 89.4 | 3.5 | 20 |
| Chromium | 64.2 | 431 | 400 | 91.7 | 2.7 | 20 |
| Cobalt | 62.7 | 419 | 400 | 89.1 | 2.6 | 20 |
| Copper | 72.4 | 452 | 400 | 94.9 | 3.1 | 20 |
| Iron | 75200 | 116000 | 50000 | 81.6 | 4.2 | 20 |
| Lead | 44.9 | 409 | 400 | 91.0 | 2.9 | 20 |
| Lithium | 35.9 | 412 | 200 | 188.1N | 2.2 | |
| Magnesium | 24600 | 71200 | 50000 | 93.2 | 3.0 | 20 |
| Manganese | 3490 | 3740 | 400 | 62.5 (a) | 3.4 | 20 |
| Molybdenum | 9.2 | 346 | 400 | 84.2 | 2.3 | 20 |
| Nickel | 101 | 469 | 400 | 92.0 | 3.1 | 20 |
| Potassium | 7350 | 52500 | 50000 | 90.3 | 3.7 | 20 |
| Selenium | anr | | | | | |
| Silver | 0.0 | 378 | 400 | 94.5 | 2.6 | 20 |
| Sodium | 45400 | 89900 | 50000 | 89.0 | 3.2 | 20 |
| Strontium | 241 | 568 | 200 | 163.5 | 3.3 | |
| Thallium | 0.0 | 347 | 400 | 86.8 | 1.7 | 20 |
| Tin | | | | | | |
| Titanium | 159 | 368 | 400 | 52.3N | 2.9 | 20 |
| Vanadium | 88.5 | 459 | 400 | 92.6 | 3.2 | 20 |
| Zinc | 76.6 | 450 | 400 | 93.4 | 3.7 | 20 |

Associated samples MP11766: T52267-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T52267
 Account: ENCACOP - ENCANA
 Project: NPR Monthly Sampling

QC Batch ID: MP11766
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/12/10

| Metal | BSP Result | Spikelot MPTW4 | % Rec | QC Limits |
|------------|------------|----------------|-------|-----------|
| Aluminum | 54300 | 50000 | 108.6 | 80-120 |
| Antimony | 398 | 400 | 99.5 | 80-120 |
| Arsenic | 400 | 400 | 100.0 | 80-120 |
| Barium | 453 | 400 | 113.3 | 80-120 |
| Beryllium | 414 | 400 | 103.5 | 80-120 |
| Boron | 1070 | 1000 | 107.0 | 80-120 |
| Cadmium | 419 | 400 | 104.8 | 80-120 |
| Calcium | 52300 | 50000 | 104.6 | 80-120 |
| Chromium | 413 | 400 | 103.3 | 80-120 |
| Cobalt | 404 | 400 | 101.0 | 80-120 |
| Copper | 418 | 400 | 104.5 | 80-120 |
| Iron | 51800 | 50000 | 103.6 | 80-120 |
| Lead | 412 | 400 | 103.0 | 80-120 |
| Lithium | 424 | 400 | 106.0 | - |
| Magnesium | 52200 | 50000 | 104.4 | 80-120 |
| Manganese | 415 | 400 | 103.8 | 80-120 |
| Molybdenum | 402 | 400 | 100.5 | 80-120 |
| Nickel | 423 | 400 | 105.8 | 80-120 |
| Potassium | 50400 | 50000 | 100.8 | 80-120 |
| Selenium | anr | | | |
| Silver | 417 | 400 | 104.3 | 80-120 |
| Sodium | 52000 | 50000 | 104.0 | 80-120 |
| Strontium | 365 | 200 | 182.5 | - |
| Thallium | 385 | 400 | 96.3 | 80-120 |
| Tin | | | | |
| Titanium | 433 | 400 | 108.3 | 80-120 |
| Vanadium | 423 | 400 | 105.8 | 80-120 |
| Zinc | 428 | 400 | 107.0 | 80-120 |

Associated samples MP11766: T52267-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.1.3
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: T52267
 Account: ENCACOP - ENCANA
 Project: NPR Monthly Sampling

QC Batch ID: MP11766
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/12/10

| Metal | T52252-6 Original | SDL 1:5 | %DIF | QC Limits |
|------------|----------------------|---------|----------|--------------|
| Aluminum | 70500 | 75300 | 6.8 | 0-10 |
| Antimony | 0.00 | 0.00 | NC | 0-10 |
| Arsenic | 42.5 | 40.3 | 5.3 | 0-10 |
| Barium | 683 | 738 | 8.0 | 0-10 |
| Beryllium | 7.76 | 6.91 | 11.0*(a) | 0-10 |
| Boron | 70.2 | 118 | 68.7*(a) | 0-10 |
| Cadmium | 0.00 | 0.00 | NC | 0-10 |
| Calcium | 95300 | 102000 | 7.4 | 0-10 |
| Chromium | 64.2 | 68.6 | 6.8 | 0-10 |
| Cobalt | 62.7 | 70.4 | 12.3*(a) | 0-10 |
| Copper | 72.4 | 71.6 | 1.1 | 0-10 |
| Iron | 75200 | 81000 | 7.7 | 0-10 |
| Lead | 44.9 | 52.1 | 16.0 (b) | 0-10 |
| Lithium | 35.9 | 44.0 | 22.7 (b) | 0- |
| Magnesium | 24600 | 26400 | 7.3 | 0-10 |
| Manganese | 3490 | 3800 | 9.0 | 0-10 |
| Molybdenum | 9.24 | 9.18 | 0.6 | 0-10 |
| Nickel | 101 | 116 | 15.1*(a) | 0-10 |
| Potassium | 7350 | 7270 | 1.1 | 0-10 |
| Selenium | anr | | | |
| Silver | 0.00 | 0.00 | NC | 0-10 |
| Sodium | 45400 | 49500 | 9.0 | 0-10 |
| Strontium | 241 | 260 | 8.1* (a) | 0- |
| Thallium | 0.00 | 0.00 | NC | 0-10 |
| Tin | | | | |
| Titanium | 159 | 173 | 9.0 | 0-10 |
| Vanadium | 88.5 | 98.3 | 11.0*(a) | 0-10 |
| Zinc | 76.6 | 106 | 38.8*(a) | 0-10 |

Associated samples MP11766: T52267-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Serial dilution indicates possible matrix interference.

(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.1.4
8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T52267
Account: ENCACOP - ENCANA
Project: NPR Monthly Sampling

QC Batch ID: MP11825
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/18/10

| Metal | RL | IDL | MDL | MB | |
|---------|------|------|------|--------|-------|
| | | | | raw | final |
| Mercury | 0.20 | .049 | .094 | -0.046 | <0.20 |

Associated samples MP11825: T52267-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T52267
 Account: ENCACOP - ENCANA
 Project: NPR Monthly Sampling

QC Batch ID: MP11825
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date: 05/18/10 05/18/10

| Metal | T52595-16 | | QC | T52595-16 | | Spikelot | QC | | |
|---------|-----------|-----|--------|-----------|-----|----------|--------|-------|--------|
| | Original | DUP | Limits | Original | MS | HGTXAQ40 | Limits | | |
| | | | | | | % Rec | | | |
| Mercury | 0.0 | 0.0 | NC | 0-6.6 | 0.0 | 2.2 | 3 | 73.3N | 78-118 |

Associated samples MP11825: T52267-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T52267
 Account: ENCACOP - ENCANA
 Project: NPR Monthly Sampling

QC Batch ID: MP11825
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date: 05/18/10

| Metal | T52595-16 Original MSD | Spikelot HGTXAQ40 | % Rec | MSD RPD | QC Limit |
|-------|---------------------------|----------------------|-------|------------|-------------|
|-------|---------------------------|----------------------|-------|------------|-------------|

| | | | | | |
|---------|-----|-----|---|------|------|
| Mercury | 0.0 | 2.5 | 3 | 83.3 | 12.8 |
|---------|-----|-----|---|------|------|

Associated samples MP11825: T52267-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

8.2.2
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T52267
Account: ENCACOP - ENCANA
Project: NPR Monthly Sampling

QC Batch ID: MP11825
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/18/10

| Metal | BSP Result | Spikelot HGTXAQ40 | % Rec | QC Limits |
|---------|---------------|----------------------|-------|--------------|
| Mercury | 3.2 | 3 | 106.7 | 80-120 |

Associated samples MP11825: T52267-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.2.3

8



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T52267
Account: ENCACOP - ENCANA
Project: NPR Monthly Sampling

| Analyte | Batch ID | RL | MB Result | Units | Spike Amount | BSP Result | BSP %Recov | QC Limits |
|----------------------------|----------------|------|-----------|-----------|--------------|------------|------------|-----------|
| Alkalinity, Bicarbonate | GN22771 | 5.0 | 2.0 | mg/l | | | | |
| Alkalinity, Carbonate | GN22741 | 5.0 | 0.0 | mg/l | | | | |
| Alkalinity, Total as CaCO3 | GN22772 | 5.0 | 2.0 | mg/l | 2500 | 2400 | 96.0 | 80-120% |
| BOD, 5 Day | GP8836/GN22757 | 2.0 | 0.0 | mg/l | 400 | 388 | 97.0 | 70-136% |
| Bromide | GP8983/GN23060 | 0.50 | 0.0 | mg/l | 10 | 10.2 | 102.0 | 90-110% |
| Carbon Dioxide | GN22941 | 5.0 | <5.0 | mg/l | | | | |
| Chemical Oxygen Demand | GP8901/GN22878 | 50 | 0.0 | mg/l | 500 | 498 | 99.6 | 90-110% |
| Chloride | GP8871/GN22815 | 0.50 | 0.0 | mg/l | 10 | 10.1 | 101.0 | 90-110% |
| Chloride | GP8914/GN22920 | 0.50 | 0.0 | mg/l | 10 | 9.99 | 99.9 | 90-110% |
| Coliform, Fecal | MB1445 | 2 | <2 | cfu/100ml | PRESENT | TNTC | | -% |
| Coliform, Fecal | MB1445 | 2 | <2 | cfu/100ml | | | | |
| Coliform, Total | MB1459 | 1 | <1 | cfu/100ml | | PRESENT | 100.0 | -% |
| Density | GN22864 | | 0.99 | g/ml | | | | |
| E. coli | MB1447 | 1 | <1 | mpn/100ml | | 1011.2 | 100.0 | -% |
| Fluoride | GP8914/GN22920 | 0.50 | 0.0 | mg/l | 10 | 10.5 | 105.0 | 90-110% |
| HEM Oil And Grease | GP8869/GN22813 | 2.0 | 0.0 | mg/l | 40 | 36.6 | 91.5 | 78-114% |
| Hardness, Total as CaCO3 | GN22870 | 5.0 | 0.0 | mg/l | 100 | 101 | 101.0 | 87-113% |
| Nitrogen, Ammonia | GP8858/GN22794 | 0.10 | 0.010(a) | mg/l | 5.0 | 4.6 | 92.0(a) | 81-121% |
| Nitrogen, Nitrate | GN22882 | 0.50 | 0.0 | mg/l | 10 | 10.1 | 101.0 | 90-110% |
| Phosphorus, Total | GP8841/GN22765 | 0.10 | 0.0 | mg/l | 0.5 | 0.49 | 97.8 | 80-120% |
| Solids, Total Dissolved | GN22748 | 10 | 0.0 | mg/l | 500 | 502 | 100.4 | 80-120% |
| Solids, Total Suspended | GN22754 | 2.0 | 0.0 | mg/l | 500 | 432 | 86.4 | 80-120% |
| Specific Conductivity | GN22830 | 1.0 | <1.0 | umhos/cm | | | | |
| Sulfate | GP8914/GN22920 | 0.50 | 0.0 | mg/l | 10 | 9.96 | 99.6 | 90-110% |
| Sulfide | GN22786 | 0.20 | 0.0 | mg/l | 1600 | 1580 | 98.8 | 80-120% |
| Total Organic Carbon | GP8897/GN22865 | 1.0 | 0.0 | mg/l | 25 | 24.4 | 97.6 | 80-120% |
| Turbidity | GN22743 | 1.0 | 0.0 | NTU | | | | |

Associated Samples:

Batch GN22741: T52267-1
 Batch GN22743: T52267-1
 Batch GN22748: T52267-1
 Batch GN22754: T52267-1
 Batch GN22771: T52267-1
 Batch GN22772: T52267-1
 Batch GN22786: T52267-1F
 Batch GN22830: T52267-1
 Batch GN22864: T52267-1
 Batch GN22870: T52267-1
 Batch GN22882: T52267-1
 Batch GN22941: T52267-1
 Batch GP8836: T52267-1
 Batch GP8841: T52267-1
 Batch GP8858: T52267-1
 Batch GP8869: T52267-1
 Batch GP8871: T52267-1
 Batch GP8897: T52267-1
 Batch GP8901: T52267-1
 Batch GP8914: T52267-1
 Batch GP8983: T52267-1
 Batch MB1445: T52267-1
 Batch MB1447: T52267-1
 Batch MB1459: T52267-1

(*) Outside of QC limits

(a) Analysis performed by Southwest Environmental Laboratories, Inc. Certification #T104704237-09-TX

9.1
9

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T52267
Account: ENCACOP - ENCANA
Project: NPR Monthly Sampling

| Analyte | Batch ID | Units | Spike Amount | BSD Result | RPD | QC Limit |
|--------------------|----------------|-------|--------------|------------|-----|----------|
| HEM Oil And Grease | GP8869/GN22813 | mg/l | 40 | 38.7 | 5.6 | |
| Sulfide | GN22786 | mg/l | 1600 | 1580 | 0.0 | |

Associated Samples:
Batch GN22786: T52267-1F
Batch GP8869: T52267-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T52267
Account: ENCACOP - ENCANA
Project: NPR Monthly Sampling

| Analyte | Batch ID | QC Sample | Units | Original Result | DUP Result | RPD | QC Limits |
|----------------------------|----------------|-----------|-----------|-----------------|------------|----------|-----------|
| Alkalinity, Bicarbonate | GN22771 | T52269-1 | mg/l | 368 | 295 | 0.7 | 0-20% |
| Alkalinity, Carbonate | GN22741 | T52269-1 | mg/l | 5.1 | 5.2 | 0.8 | 0-20% |
| Alkalinity, Total as CaCO3 | GN22772 | T52269-1 | mg/l | 298 | 300 | 0.7 | 0-10% |
| BOD, 5 Day | GP8836/GN22757 | T52269-1 | mg/l | 14.0 | 14.0 | 0.0 | 0-23% |
| Bromide | GP8983/GN23060 | T52269-1 | mg/l | 0.10 U | 0.0 | 0.0 | 0-20% |
| Carbon Dioxide | GN22941 | T52269-1 | mg/l | 3.1 B | <5.0 | 1.8 | 0-20% |
| Chemical Oxygen Demand | GP8901/GN22878 | T52524-2 | mg/l | 374 | 370 | 1.1 | 0-20% |
| Chloride | GP8871/GN22815 | T52269-1 | mg/l | 542 | 552 | 1.8 | 0-20% |
| Chloride | GP8914/GN22920 | T52665-35 | mg/l | 224 | 222 | 0.9 | 0-20% |
| Chloride | GP8914/GN22920 | T52665-35 | mg/l | 224 | 222 | 0.9 | 0-20% |
| Coliform, Fecal | MB1445 | T52204-1 | cfu/100ml | <2 | <2 | 0.0 | 0-20% |
| Coliform, Total | MB1459 | T52269-1 | cfu/100ml | 280 | 310 | 100.0* | 0-20% |
| Density | GN22864 | T52269-1 | g/ml | 0.99 | 0.99 | 0.0 | 0-20% |
| E. coli | MB1447 | T52205-1 | mpn/100ml | <1 | <1 | 0.0 | 0-20% |
| HEM Oil And Grease | GP8869/GN22813 | T52136-3 | mg/l | 0.90 U | 0.0 | 0.0 | 0-18% |
| Hardness, Total as CaCO3 | GN22870 | T52269-1 | mg/l | 232 | 233 | 0.4 | 0-10% |
| Nitrogen, Ammonia | GP8858/GN22794 | T52039-4 | mg/l | 51.2 | 48.8(a) | 4.8(a) | 0-20% |
| Nitrogen, Nitrate | GN22882 | T52269-1 | mg/l | 1.3 | 0.59 | 75.1*(b) | 0-20% |
| Oxygen, Dissolved | GN22940 | T52267-1 | mg/l | 11.3 | 11.3 | 0.3 | 0-20% |
| Phosphorus, Total | GP8841/GN22765 | T52135-1 | mg/l | 0.39 | 0.39 | 0.5 | 0-20% |
| Solids, Total Dissolved | GN22748 | T52206-1 | mg/l | 1010 | 1010 | 0.0 | 0-5% |
| Solids, Total Suspended | GN22754 | T52366-4 | mg/l | 308 | 298 | 3.3 | 0-22% |
| Specific Conductivity | GN22830 | T51989-1 | umhos/cm | 1590 | 1590 | 0.1 | 0-20% |
| Sulfate | GP8914/GN22920 | T52665-35 | mg/l | 184 | 169 | 8.5 | 0-20% |
| Sulfate | GP8914/GN22920 | T52665-35 | mg/l | 174 | 169 | 8.5 | 0-20% |
| Total Organic Carbon | GP8897/GN22865 | T52373-1 | mg/l | 3.1 | 3.1 | 0.0 | 0-20% |
| Turbidity | GN22743 | T52267-1 | NTU | 55.2 | 55.2 | 0.0 | 0-20% |
| pH | GN22716 | T52267-1 | su | 6.99 | 7.01 | 0.3 | 0-6.8% |

Associated Samples:

Batch GN22716: T52267-1
 Batch GN22741: T52267-1
 Batch GN22743: T52267-1
 Batch GN22748: T52267-1
 Batch GN22754: T52267-1
 Batch GN22771: T52267-1
 Batch GN22772: T52267-1
 Batch GN22830: T52267-1
 Batch GN22864: T52267-1
 Batch GN22870: T52267-1
 Batch GN22882: T52267-1
 Batch GN22940: T52267-1
 Batch GN22941: T52267-1
 Batch GP8836: T52267-1
 Batch GP8841: T52267-1
 Batch GP8858: T52267-1
 Batch GP8869: T52267-1
 Batch GP8871: T52267-1
 Batch GP8897: T52267-1
 Batch GP8901: T52267-1
 Batch GP8914: T52267-1
 Batch GP8983: T52267-1
 Batch MB1445: T52267-1
 Batch MB1447: T52267-1
 Batch MB1459: T52267-1

(*) Outside of QC limits

(a) Analysis performed by Southwest Environmental Laboratories, Inc. Certification #T104704237-09-TX

(b) High RPD acceptable due to low sample and duplicate concentration.

9.3
9

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T52267
Account: ENCACOP - ENCANA
Project: NPR Monthly Sampling

| Analyte | Batch ID | QC Sample | Units | Original Result | Spike Amount | MS Result | %Rec | QC Limits |
|----------------------------|----------------|-----------|-------|-----------------|--------------|-----------|---------|-----------|
| Alkalinity, Total as CaCO3 | GN22772 | T52269-1 | mg/l | 298 | 25 | 324 | 104.0 | 79-122% |
| Bromide | GP8914/GN22920 | T52665-35 | mg/l | 39.6 | 200 | 195 | 94.5 | 80-120% |
| Bromide | GP8914/GN22920 | T52665-35 | mg/l | 6.1 | 200 | 195 | 94.5 | 80-120% |
| Bromide | GP8983/GN23060 | T52269-1 | mg/l | 0.10 U | 10 | 6.6 | 66.0N | 80-120% |
| Chemical Oxygen Demand | GP8901/GN22878 | T52524-2 | mg/l | 374 | 500 | 859 | 97.0 | 90-110% |
| Chloride | GP8871/GN22815 | T52269-1 | mg/l | 542 | 100 | 654 | 112.0 | 80-120% |
| Chloride | GP8914/GN22920 | T52665-35 | mg/l | 224 | 200 | 380 | 78.0N | 80-120% |
| Chloride | GP8914/GN22920 | T52665-35 | mg/l | 224 | 200 | 380 | 78.0N | 80-120% |
| Fluoride | GP8914/GN22920 | T52665-35 | mg/l | 5.0 U | 200 | 189 | 94.1 | 80-120% |
| Fluoride | GP8914/GN22920 | T52665-35 | mg/l | 0.71 B | 200 | 189 | 94.1 | 80-120% |
| Hardness, Total as CaCO3 | GN22870 | T52269-1 | mg/l | 232 | 50 | 284 | 104.0 | 75-125% |
| Nitrogen, Ammonia | GP8858/GN22794 | T52039-4 | mg/l | 51.2 | 50 | 91.8(a) | 81.0(a) | 66-131% |
| Nitrogen, Nitrate | GN22882 | T52269-1 | mg/l | 1.3 | 10 | 4.8 | 35.0N | 80-120% |
| Phosphorus, Total | GP8841/GN22765 | T52135-1 | mg/l | 0.39 | 1.0 | 1.4 | 100.7 | 75-125% |
| Sulfate | GP8914/GN22920 | T52665-35 | mg/l | 184 | 200 | 340 | 78.0N | 80-120% |
| Sulfate | GP8914/GN22920 | T52665-35 | mg/l | 174 | 200 | 340 | 78.0N | 80-120% |
| Total Organic Carbon | GP8897/GN22865 | T52373-1 | mg/l | 3.1 | 25 | 27.7 | 98.4 | 75-125% |

Associated Samples:

Batch GN22772: T52267-1
Batch GN22870: T52267-1
Batch GN22882: T52267-1
Batch GP8841: T52267-1
Batch GP8858: T52267-1
Batch GP8871: T52267-1
Batch GP8897: T52267-1
Batch GP8901: T52267-1
Batch GP8914: T52267-1
Batch GP8983: T52267-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Analysis performed by Southwest Environmental Laboratories, Inc. Certification #T104704237-09-TX

9.4
9



Misc. Forms

Custody Documents and Other Forms

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: T S 2 267 CLIENT: ALGC PROJECT: T S 2 967
 DATE/TIME RECEIVED: 05-12-10 07:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: _____

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET
- WET ICE PRESENT

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OR LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- IR THERM ID 1 CORR. FACTOR +0.4
- OBSERVED TEMPS: 4.4
- CORRECTED TEMPS: 4.8

SAMPLE INFORMATION

- SAMPLE LABELS PRESENT ON ALL BOTTLES
- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE JC 05-12-10 REVIEWER SIGNATURE/DATE BTW

NF 10/09

RECEIPT CONFIRMATION 100609 (2).xls

10.1 10



GC Volatiles

QC Data Summaries

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T52267
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: ENCACOP: Project NPR/MF Pond

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|--------------|----|----------|----|-----------|------------|------------------|
| GXY1826-MB | XY044008.D 1 | | 05/13/10 | CW | n/a | n/a | GXY1826 |

The QC reported here applies to the following samples:

Method: SW846 8015B

T52267-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------|--------|-----|-----|-------|---|
| 64-17-5 | Ethanol | ND | 5.0 | 2.0 | mg/l | |
| 67-56-1 | Methanol | ND | 5.0 | 2.0 | mg/l | |

| CAS No. | Surrogate Recoveries | Limits |
|----------|----------------------|--------------|
| 111-27-3 | Hexanol | 102% 51-161% |



Method Blank Summary

Job Number: T52267
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: ENCACOP: Project NPR/MF Pond

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| GFF213-MB | FF04935.D | 1 | 05/13/10 | WV | n/a | n/a | GFF213 |

The QC reported here applies to the following samples:

Method: RSKSOP-147/175

T52267-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------|--------|------|------|-------|---|
| 74-82-8 | Methane | ND | 0.50 | 0.16 | ug/l | |

11.1.2
11

Blank Spike Summary

Job Number: T52267
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: ENCACOP: Project NPR/MF Pond

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|--------------|----|----------|----|-----------|------------|------------------|
| GXY1826-BS | XY044009.D 1 | | 05/13/10 | CW | n/a | n/a | GXY1826 |

The QC reported here applies to the following samples:

Method: SW846 8015B

T52267-1

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---------|----------|------------|----------|-------|--------|
| 64-17-5 | Ethanol | 100 | 101 | 101 | 60-150 |
| 67-56-1 | Methanol | 100 | 98.4 | 98 | 58-150 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|----------|----------------------|-----|---------|
| 111-27-3 | Hexanol | 87% | 51-161% |

11.2.1
11

Blank Spike Summary

Job Number: T52267
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: ENCACOP: Project NPR/MF Pond

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| GFF213-BS | FF04936.D | 1 | 05/13/10 | WV | n/a | n/a | GFF213 |

The QC reported here applies to the following samples:

Method: RSKSOP-147/175

T52267-1

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---------|----------|---------------|-------------|----------|--------|
| 74-82-8 | Methane | 108 | 112 | 104 | 54-149 |

Matrix Spike Summary

Job Number: T52267
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: ENCACOP: Project NPR/MF Pond

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| F73452-8AMS | FF04939.D | 1 | 05/13/10 | WV | n/a | n/a | GFF213 |
| F73452-8A | FF04937.D | 1 | 05/13/10 | WV | n/a | n/a | GFF213 |

The QC reported here applies to the following samples:

Method: RSKSOP-147/175

T52267-1

| CAS No. | Compound | F73452-8A ug/l | Spike Q ug/l | MS ug/l | MS % | Limits |
|---------|----------|-------------------|--------------------|------------|---------|--------|
| 74-82-8 | Methane | 1150 | 108 | 1060 | -83* a | 54-149 |

(a) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T52267
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: ENCACOP: Project NPR/MF Pond

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|--------------|----|----------|----|-----------|------------|------------------|
| GC10961-MS | XY044021.D 1 | | 05/13/10 | CW | n/a | n/a | GXY1826 |
| GC10961-MSD | XY044022.D 1 | | 05/13/10 | CW | n/a | n/a | GXY1826 |
| F73560-1 | XY044010.D 1 | | 05/13/10 | CW | n/a | n/a | GXY1826 |

The QC reported here applies to the following samples:

Method: SW846 8015B

T52267-1

| CAS No. | Compound | F73560-1 mg/l | Spike Q mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---------|----------|------------------|--------------------|------------|---------|-------------|----------|-----|-------------------|
| 64-17-5 | Ethanol | 54.8 | 100 | 157 | 102 | 158 | 103 | 1 | 60-150/13 |
| 67-56-1 | Methanol | 5.0 U | 100 | 108 | 108 | 104 | 104 | 4 | 58-150/15 |

| CAS No. | Surrogate Recoveries | MS | MSD | F73560-1 | Limits |
|----------|----------------------|-----|------|----------|---------|
| 111-27-3 | Hexanol | 99% | 102% | 79% | 51-161% |

11.4.1
11

Duplicate Summary

Job Number: T52267
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: ENCACOP: Project NPR/MF Pond

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| F73452-8ADUP | FF04938.D | 1 | 05/13/10 | WV | n/a | n/a | GFF213 |
| F73452-8A | FF04937.D | 1 | 05/13/10 | WV | n/a | n/a | GFF213 |

The QC reported here applies to the following samples:

Method: RSKSOP-147/175

T52267-1

| CAS No. | Compound | F73452-8A ug/l | DUP Q ug/l | Q RPD | Limits |
|---------|----------|-------------------|---------------|-------|--------|
| 74-82-8 | Methane | 1150 | 1190 | 3 | 24 |



Misc. Forms

Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody

50



SUBCONTRACT COC

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

| | |
|--|---------------------------------|
| FED-EX Tracking # 793532575762 | Bottle Order Control # |
| Accutest Quote # | Accutest Job # T52267 |

| Client Information | | Subcontract Information | |
|--|----------------------------------|--|-----------|
| Company Name Accutest Gulf Coast | | Subcontract Laboratory Accutest New Jersey | |
| Project Contact Sylvia Garza | | Laboratory Contact | |
| Address 10165 Harwin Dr, Suite 150 | | Address | |
| City Houston | State TX | City | State |
| Zip 77036 | Phone No. 713-271-4700 | Zip | Phone No. |

| SEMS | Requested Analyses | | | | | | | | | | | | Matrix Codes |
|------|--------------------|---|---|---|---|---|---|---|---|----|----|----|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| X | | | | | | | | | | | | | DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil SL - Sludge OL - Oil LIQ - Liquid SOL - Other Solid |
| | | | | | | | | | | | | | LAB USE ONLY ME 23 |

| Accutest Sample Number | Collection | | Matrix | # of bottles | Number of preserved bottles | | | | | | | | | | | | | | | |
|------------------------|------------|------|--------|--------------|-----------------------------|------|------|-------|------|-----|------|-------|--|--|--|--|--|--|--|--|
| | Date | Time | | | ML | NRCH | HR20 | HR20A | DMCH | TBP | NONE | OTHER | | | | | | | | |
| T52267-1 <i>SD</i> | 05/07/10 | 1240 | SW | 1 | | | | 1 | | | | | | | | | | | | |
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| | | | |
|---|--------------------|---|-------------------------|
| Turnaround Time (Business days) | Approved By/ Date: | Data Deliverable Information | Comments / Remarks |
| <input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> 7 Day <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other | _____ | <input type="checkbox"/> Commercial "A" <input checked="" type="checkbox"/> Commercial "B" <input type="checkbox"/> Reduced Tier 1 <input type="checkbox"/> Full Data Package Commercial "A" = Results Only Commercial "B" = Results & Standard QC | <i>SD NAB TRS/12/10</i> |

Real time analytical data available via Lablink

| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY | | | | | | | |
|---|--------------------------------|---------------------------------|-------------------------------------|---------------------------|--------------|---------------------------|------------|
| Relinquished by Sampler: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: | Relinquished By: | Date Time: |
| 1 | | 1 | 2 | 5/11/10 1750 | V de | | |
| Relinquished by: <i>Fedex</i> | Date Time: <i>5/12/10 0918</i> | Received By: <i>[Signature]</i> | Relinquished By: <i>[Signature]</i> | Date Time: | Received By: | Relinquished By: | Date Time: |
| 3 | | 3 | 4 | | | | |
| Relinquished by: | Date Time: | Received By: | Custody Seal # | Preserved when applicable | On Ice | Cooler Temp: <i>3.4°C</i> | |
| 5 | | 5 | | | | | |
| <i>A</i> | | | | <i>7:55/12/10</i> | | | |

12.1
12

T52267: Chain of Custody
Page 1 of 2
Accutest New Jersey



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T52267

Client:

Immediate Client Services Action Required: No

Date / Time Received: 5/12/2010

Delivery Method:

Client Service Action Required at Login: No

Project:

No. Coolers: 1

Airbill #'s:

| <u>Cooler Security</u> | <u>Y or N</u> | | | <u>Y or N</u> | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. SmpI Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| <u>Cooler Temperature</u> | <u>Y or N</u> | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | Infrared gun | |
| 3. Cooler media: | Ice (bag) | |

| <u>Quality Control Preservatio</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|------------------------------------|-------------------------------------|-----------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved property: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| <u>Sample Integrity - Documentation</u> | <u>Y or N</u> | |
|---|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| <u>Sample Integrity - Condition</u> | <u>Y or N</u> | |
|-------------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

| <u>Sample Integrity - Instructions</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

12.1
12



Metals Analysis

QC Data Summaries

(Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T52267
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 05/14/10

| Metal | RL | IDL | MDL | MB raw | final |
|------------|-------|-----|-----|-----------|-------|
| Aluminum | 200 | 76 | 19 | | |
| Antimony | 6.0 | 2.9 | 2.3 | | |
| Arsenic | 8.0 | 4.8 | 2.6 | | |
| Barium | 200 | .5 | .25 | | |
| Beryllium | 1.0 | .5 | .21 | | |
| Cadmium | 3.0 | .7 | .52 | | |
| Calcium | 5000 | 62 | 13 | | |
| Chromium | 10 | .9 | .56 | | |
| Cobalt | 50 | 1.1 | .52 | | |
| Copper | 10 | .8 | .91 | | |
| Iron | 100 | 45 | 24 | | |
| Lead | 3.0 | 2.3 | 1.3 | | |
| Magnesium | 5000 | 80 | 14 | | |
| Manganese | 15 | .5 | .19 | | |
| Molybdenum | 20 | 1.7 | 1.7 | | |
| Nickel | 10 | 1.2 | 2 | | |
| Palladium | 50 | 2 | .69 | | |
| Potassium | 10000 | 34 | 20 | | |
| Selenium | 10 | 3.4 | 2.3 | | |
| Silicon | 200 | 11 | 14 | 46.8 | <200 |
| Silver | 10 | .8 | .52 | | |
| Sodium | 10000 | 110 | 200 | | |
| Thallium | 10 | 6.1 | 4.9 | | |
| Tin | 10 | 2.5 | 2.2 | | |
| Vanadium | 50 | 1.2 | .78 | | |
| Zinc | 20 | 2.8 | 1 | | |

Associated samples MP52689: T52267-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

13.11
13

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T52267
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/14/10

| Metal | T52267-1 Original MS | SpikeLot MPIOW7 | % Rec | QC Limits |
|------------|-------------------------|--------------------|-------|-----------------|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | | | | |
| Barium | | | | |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | | | | |
| Calcium | | | | |
| Chromium | | | | |
| Cobalt | | | | |
| Copper | | | | |
| Iron | | | | |
| Lead | | | | |
| Magnesium | | | | |
| Manganese | | | | |
| Molybdenum | | | | |
| Nickel | | | | |
| Palladium | | | | |
| Potassium | | | | |
| Selenium | | | | |
| Silicon | 42700 | 49100 | 2000 | 320.0(a) 75-125 |
| Silver | | | | |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Tungsten | | | | |
| Vanadium | | | | |
| Zinc | | | | |
| Zirconium | | | | |

Associated samples MP52689: T52267-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

13.1.2
 13

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T52267
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T52267
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/14/10

| Metal | T52267-1 Original MSD | SpikeLot MPIOW7 | % Rec | MSD RPD | QC Limit | |
|------------|--------------------------|--------------------|-------|------------|-------------|----|
| Aluminum | | | | | | |
| Antimony | | | | | | |
| Arsenic | | | | | | |
| Barium | | | | | | |
| Beryllium | | | | | | |
| Boron | | | | | | |
| Cadmium | | | | | | |
| Calcium | | | | | | |
| Chromium | | | | | | |
| Cobalt | | | | | | |
| Copper | | | | | | |
| Iron | | | | | | |
| Lead | | | | | | |
| Magnesium | | | | | | |
| Manganese | | | | | | |
| Molybdenum | | | | | | |
| Nickel | | | | | | |
| Palladium | | | | | | |
| Potassium | | | | | | |
| Selenium | | | | | | |
| Silicon | 42700 | 47900 | 2000 | 260.0(a) | 2.5 | 20 |
| Silver | | | | | | |
| Strontium | | | | | | |
| Thallium | | | | | | |
| Tin | | | | | | |
| Titanium | | | | | | |
| Tungsten | | | | | | |
| Vanadium | | | | | | |
| Zinc | | | | | | |
| Zirconium | | | | | | |

Associated samples MP52689: T52267-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

13.1.2
13

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T52267
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T52267
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/14/10 05/14/10

| Metal | BSP Result | Spikelot MPIOW7 | % Rec | QC Limits | LCS Result | Spikelot MPLCW3 | % Rec | QC Limits |
|------------|---------------|--------------------|-------|--------------|---------------|--------------------|-------|--------------|
| Aluminum | | | | | | | | |
| Antimony | | | | | | | | |
| Arsenic | | | | | | | | |
| Barium | | | | | | | | |
| Beryllium | | | | | | | | |
| Boron | | | | | | | | |
| Cadmium | | | | | | | | |
| Calcium | | | | | | | | |
| Chromium | | | | | | | | |
| Cobalt | | | | | | | | |
| Copper | | | | | | | | |
| Iron | | | | | | | | |
| Lead | | | | | | | | |
| Magnesium | | | | | | | | |
| Manganese | | | | | | | | |
| Molybdenum | | | | | | | | |
| Nickel | | | | | | | | |
| Palladium | | | | | | | | |
| Potassium | | | | | | | | |
| Selenium | | | | | | | | |
| Silicon | 4450 | 4000 | 111.0 | 80-120 | | | | |
| Silver | | | | | | | | |
| Sodium | | | | | | | | |
| Strontium | | | | | | | | |
| Thallium | | | | | | | | |
| Tin | | | | | | | | |
| Titanium | | | | | | | | |
| Tungsten | | | | | | | | |
| Vanadium | | | | | | | | |
| Zinc | | | | | | | | |
| Zirconium | | | | | | | | |

Associated samples MP52689: T52267-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits

13.1.3
 13

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T52267
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T52267
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/14/10

| Metal | T52267-1 Original | SDL 1:5 | %DIF | QC Limits |
|-------|----------------------|---------|------|--------------|
|-------|----------------------|---------|------|--------------|

| | | | | |
|------------|-------|-------|-----|------|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | | | | |
| Barium | | | | |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | | | | |
| Calcium | | | | |
| Chromium | | | | |
| Cobalt | | | | |
| Copper | | | | |
| Iron | | | | |
| Lead | | | | |
| Magnesium | | | | |
| Manganese | | | | |
| Molybdenum | | | | |
| Nickel | | | | |
| Palladium | | | | |
| Potassium | | | | |
| Selenium | | | | |
| Silicon | 42700 | 42200 | 1.1 | 0-10 |
| Silver | | | | |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Tungsten | | | | |
| Vanadium | | | | |
| Zinc | | | | |
| Zirconium | | | | |

Associated samples MP52689: T52267-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits

13.14
13

SERIAL DILUTION RESULTS SUMMARY

Login Number: T52267
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

13.1.4

13

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T52267
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689A
Matrix Type: AQUEOUS

Methods: SW846 6020
Units: ug/l

Prep Date: 05/14/10

| Metal | RL | IDL | MDL | MB raw | final |
|------------|-----|------|------|-----------|-------|
| Aluminum | 100 | 4.5 | 2.4 | | |
| Antimony | 1.0 | .034 | .16 | | |
| Arsenic | 2.0 | .24 | .36 | | |
| Barium | 2.0 | .066 | .13 | | |
| Beryllium | 1.0 | .05 | .11 | | |
| Boron | 10 | 1.2 | 1.5 | | |
| Cadmium | 1.0 | .04 | .13 | | |
| Calcium | 500 | 47 | 16 | | |
| Chromium | 8.0 | .15 | .3 | | |
| Cobalt | 1.0 | .016 | .072 | | |
| Copper | 8.0 | .096 | .46 | | |
| Iron | 100 | 14 | 7.1 | | |
| Lead | 1.0 | .022 | .05 | | |
| Magnesium | 500 | 4.6 | 5.7 | | |
| Manganese | 1.0 | .14 | .046 | | |
| Molybdenum | 2.0 | .28 | .19 | | |
| Nickel | 8.0 | .11 | .23 | | |
| Potassium | 500 | 10 | 8.4 | | |
| Selenium | 2.0 | .17 | .11 | -0.083 | <2.0 |
| Silver | 4.0 | .026 | .099 | | |
| Sodium | 500 | 24 | 3 | | |
| Strontium | 2.0 | .05 | .03 | | |
| Thallium | 1.0 | .048 | .067 | | |
| Tin | 10 | .16 | .11 | | |
| Titanium | 2.0 | .16 | .21 | | |
| Uranium | 2.0 | | | | |
| Vanadium | 8.0 | .98 | 1.5 | | |
| Zinc | 8.0 | 1 | 1.7 | | |

Associated samples MP52689A: T52267-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

13.21
13

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T52267
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689A
 Matrix Type: AQUEOUS

Methods: SW846 6020
 Units: ug/l

Prep Date: 05/14/10

| Metal | T52267-1 Original MS | | Spike lot MPIOW7 | % Rec | QC Limits |
|------------|-------------------------|------|------------------------|-------|--------------|
| Aluminum | | | | | |
| Antimony | | | | | |
| Arsenic | anr | | | | |
| Barium | | | | | |
| Beryllium | | | | | |
| Boron | | | | | |
| Cadmium | | | | | |
| Calcium | | | | | |
| Chromium | | | | | |
| Cobalt | | | | | |
| Copper | | | | | |
| Iron | | | | | |
| Lead | anr | | | | |
| Magnesium | | | | | |
| Manganese | | | | | |
| Molybdenum | | | | | |
| Nickel | | | | | |
| Potassium | | | | | |
| Selenium | 20.2 | 1740 | 2000 | 86.0 | 75-125 |
| Silver | | | | | |
| Sodium | | | | | |
| Strontium | | | | | |
| Thallium | | | | | |
| Tin | | | | | |
| Titanium | | | | | |
| Uranium | | | | | |
| Vanadium | | | | | |
| Zinc | | | | | |

Associated samples MP52689A: T52267-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

13.22
13

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T52267
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689A
 Matrix Type: AQUEOUS

Methods: SW846 6020
 Units: ug/l

Prep Date: 05/14/10

| Metal | T52267-1 Original MSD | SpikeLot MPIOW7 | % Rec | MSD RPD | QC Limit | |
|------------|--------------------------|--------------------|-------|------------|-------------|----|
| Aluminum | | | | | | |
| Antimony | | | | | | |
| Arsenic | anr | | | | | |
| Barium | | | | | | |
| Beryllium | | | | | | |
| Boron | | | | | | |
| Cadmium | | | | | | |
| Calcium | | | | | | |
| Chromium | | | | | | |
| Cobalt | | | | | | |
| Copper | | | | | | |
| Iron | | | | | | |
| Lead | anr | | | | | |
| Magnesium | | | | | | |
| Manganese | | | | | | |
| Molybdenum | | | | | | |
| Nickel | | | | | | |
| Potassium | | | | | | |
| Selenium | 20.2 | 1710 | 2000 | 84.5 | 1.7 | 20 |
| Silver | | | | | | |
| Sodium | | | | | | |
| Strontium | | | | | | |
| Thallium | | | | | | |
| Tin | | | | | | |
| Titanium | | | | | | |
| Uranium | | | | | | |
| Vanadium | | | | | | |
| Zinc | | | | | | |

Associated samples MP52689A: T52267-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

13.22
13

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T52267
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689A
 Matrix Type: AQUEOUS

Methods: SW846 6020
 Units: ug/l

Prep Date: 05/14/10

| Metal | LCS Result | Spikelot MPLCW3 | % Rec | QC Limits |
|------------|------------|-----------------|-------|-----------|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | anr | | | |
| Barium | | | | |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | | | | |
| Calcium | | | | |
| Chromium | | | | |
| Cobalt | | | | |
| Copper | | | | |
| Iron | | | | |
| Lead | anr | | | |
| Magnesium | | | | |
| Manganese | | | | |
| Molybdenum | | | | |
| Nickel | | | | |
| Potassium | | | | |
| Selenium | 415 | 500 | 83.0 | 80-120 |
| Silver | | | | |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | | | | |
| Vanadium | | | | |
| Zinc | | | | |

Associated samples MP52689A: T52267-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

13.23
13

SERIAL DILUTION RESULTS SUMMARY

Login Number: T52267
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: ENCACOP: Project NPR/MF Pond

QC Batch ID: MP52689A
 Matrix Type: AQUEOUS

Methods: SW846 6020
 Units: ug/l

Prep Date: 05/14/10

| Metal | T52267-1 | QC |
|-------|----------|--------|
| | Original | Limits |

| Metal | Original | SDL 5:10 | %DIF | QC Limits |
|------------|----------|----------|------|-----------|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | anr | | | |
| Barium | | | | |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | | | | |
| Calcium | | | | |
| Chromium | | | | |
| Cobalt | | | | |
| Copper | | | | |
| Iron | | | | |
| Lead | anr | | | |
| Magnesium | | | | |
| Manganese | | | | |
| Molybdenum | | | | |
| Nickel | | | | |
| Potassium | | | | |
| Selenium | 20.2 | 20.0 | 1.4 | 0-10 |
| Silver | | | | |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | | | | |
| Vanadium | | | | |
| Zinc | | | | |

Associated samples MP52689A: T52267-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

13.24
 13