

WATER ANALYSIS

No flag set.

Container Identification

PB1A

Operator Name
ENCANA CORPORATION

Laboratory Number 17WF215396A

| Unique Well Identifier | Well Name |
|------------------------|------------------------------|
| 100/15-12-077-15W6/0 | ECA Hz SWAN LAKE E12-5-77-14 |

| Field or Area | Pool or Zone | Sampler's Company |
|---------------|--------------|--------------------|
| SWAN LAKE | MONTNEY | AGAT/FORT ST. JOHN |

| Well License | Elevation | Test Type | Test No. | Name of Sampler |
|--------------|--------------------------|-----------|----------|-----------------|
| 32283 | KB m 818.10 GRD m 811.70 | | | AP |

| Test Interval or Perfs mKB | Sampling Point | | Separator | Reservoir | Source | Sampled | Received |
|----------------------------|----------------------|----------------|-----------|-----------|--------|---------|----------|
| 2810.09-5824.56 | HIGH STAGE SEPARATOR | Pressure (kPa) | | | 4800 | | |
| mKB | | Temperature | | | 51 | | |
| <i>i</i> | 11 | | | | | | |

| Date Sampled | Date Received | Date Analyzed | Date Reported | Location - Approved By - Title |
|--------------|---------------|---------------|---------------|---------------------------------|
| May 15, 2017 | May 16, 2017 | May 16, 2017 | May 16, 2017 | Calgary - Tin Tin Ma - Reporter |

Other Information

Cations

| ION | mg/L | mmol/L | meq/L |
|-----|---------|--------|-------|
| Na | 10500.0 | 456.7 | 456.7 |
| K | 469.0 | 12.0 | 12.0 |
| Ca | 1070.0 | 26.7 | 53.4 |
| Mg | 168.0 | 6.9 | 13.8 |
| Fe | 2.2 | 0.0 | TRACE |
| | | | |

Total Cations 536.0

Anions

| ION | mg/L | mmol/L | meq/L |
|------|---------|--------|-------|
| CI | 18859.0 | 531.9 | 531.9 |
| HCO3 | 227.3 | 3.7 | 3.7 |
| SO4 | 75.1 | 0.8 | 1.6 |
| CO3 | Nil | Nil | Nil |
| OH | Nil | Nil | Nil |

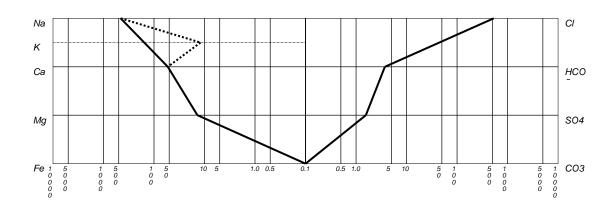
Total Anions 537.2

Other Measurements

| Measurement | Value |
|--|--------|
| Total Dissolved Solids (Calculated) mg/L | 31252 |
| Observed pH | 7.31 |
| H2S (25°C) mg/L | N/D |
| Relative Density (25°C) | 1.024 |
| Resistivity/OHM·m (25°C) | 0.195 |
| Salinity % | 3.32 |
| Total Alkalinity as CaCO3 | 186.33 |

This analysis and calculations are based on:
pH = SM 4500 H+
Alkalinity = SM 2320
Cations = EPA SW-846 7000B
Anions = SM 4110B
H2S = SM 4500 S-2

Stiff Diagram (meq/L)







^{*} Results relate only to the items tested