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Canada

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Ottawa, ON K1P 6L5  
Canada

## **SCOPE OF ACCREDITATION**

**Exova Canada Inc.**  
**DRAYTON VALLEY LABORATORY**  
**7407 Twp Road 485 P.O. Box 7706**  
**Drayton Valley, AB**  
**T7A 1R7**

Accredited Laboratory No. 296  
(Conforms with requirements of CAN-P-4E (ISO/IEC 17025:2005))

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**CLIENTS SERVED:** All interested parties

**FIELDS OF TESTING:** Chemical/Physical

**PROGRAM SPECIALTY AREA:** Environmental

**SCOPE ISSUED ON:** 2016-09-06

**ACCREDITATION VALID TO:** 2019-07-07

### **ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY**

#### **Environmental**

##### **Soil/Sludge**

**(Alcohols Soil/Sludge)**

TM SC 075-28 ALCOHOLS IN SOIL AND LEACHATES BY  
CAPILLARY GAS CHROMATOGRAPH  
(EPA, SW-846 Extraction, EPA 8015B modified)  
Cyclohexanone  
iso-Butanol  
Methanol  
n-Butanol  
Pyridine

**(BTEX - Soil/Sludge)**

TM GC 050-28 Leachable BTEX in Solids and Waste by Headspace  
-Gas Chromatography with PID and FID (EPA, SW-846  
Extraction, EPA 5021A, EPA 8021B, EPA 8015D for  
Analysis Modified)  
Benzene  
Ethyl Benzene  
m,p-Xylene  
o-Xylene  
Toluene

**(Metals - Soil/Sludge)**

TM SC 075-28 Toxicity Characteristic Leaching Procedure in Solid  
Samples (EPA 1311 Modified)  
Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Mercury  
Nickel  
Selenium  
Silver  
Thallium  
Uranium  
Vanadium

Zinc  
Zirconium

**(pH - Soil/Sludge)**

TM SC 006-28                      pH 1:1 in Waste (EPA 9045C Modified)  
pH

**(VOCs Soil/Sludge)**

TM SC 070-28                      VOLATILE ORGANIC COMPOUNDS IN SOLIDS AND  
LEACHATE BY GAS CHROMATOGRAPHY / MASS  
SPECTROMETRY (GC/MS): CAPILLARY COLUMN  
TECHNIQUE  
(EPA, SW-846 Extraction, EPA 8260B modified, EPA  
5021A modified  
Acetone  
Benzene  
Carbon disulfide  
Ethyl Acetate  
Ethyl Benzene  
Ethyl Ether  
Isonitropropane  
m&p-Cresol  
m&p-xylene  
Methyl Ethyl Ketone  
Methyl Isobutyl Ketone  
Nitrobenzene  
o-Cresol  
o-xylene  
Toluene

**Water (Inorganic)**

**(Ammonium - Water)**

TM WC 020-28                      Ammonia in Aqueous Solutions by Colorimetry (HACH  
Method 8038 Modified)  
NH<sub>3</sub>

**(Chemical Oxygen Demand (COD) - Water)**

TM WC 060-28                      Chemical Oxygen Demand in Water and Waste Water by  
Block Digestion (HACH Method 8000 Modified)  
COD

**(Hexavalent Chromium -Water)**

TM WC 085-28                      Hexavalent Chromium in Aqueous Solutions by Spectrophotometer (HACH Method 8023)  
Hexavalent Chromium

**(Major Ions - Water)**

TM WC 025-28                      Anions in Aqueous Solutions by Ion Chromatography (APHA 4110 B Modified)  
Chloride  
Nitrate-N  
Nitrite-N  
Sulfate

**(Metals - Water)**

TM WC 080-28                      Metals in Aqueous Solutions by ICP (APHA 3120 B Modified)  
Calcium  
Iron  
Magnesium  
Manganese  
Potassium  
Sodium

**(pH - Water)**

TM WC 010-28                      pH in Aqueous Solutions (APHA 4500-H+B Modified)  
pH

**(Total Oil And Grease - Water)**

TM WC 095-28                      Total Oil & Grease in Water by Gravimetric Analysis (EPA 1664 Modified)  
Total Oil And Grease

**(Total Suspended Solids (TSS) - Water)**

TM WC 035-28                      Total Suspended Solids in Water and Wastewater Dried at 104 °C (APHA 2540 D Modified)  
Total Suspended Solids

**NON METALLIC MINERALS AND PRODUCTS**

**Petroleum Crudes and Natural Gas:**

**(Glycol)**

TM GC 065-28	Analysis of Glycol Compounds by Gas Chromatography (ASTM E202-12 Modified) Di-ethylene Glycol Ethylene Glycol Methanol Tetra-ethylene Glycol Tri-ethylene Glycol
TM OC 058-28	Anions in Glycol by Ion Chromatography (APHA 4110 B Modified) Chloride Nitrite-N Phosphate-P Sulfate

**(Kinematic and Absolute Viscosity)**

TM OC 026-28	Dynamic Viscosity and Density of Liquids by Stabinger Viscometer (ASTM D 7042-11a Modified) Absolute Viscosity Kinematic Viscosity
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**(Oil)**

TM OC 005-28	Basic Sediment and Water (BS&W - ASTM D4007 modified) % Sediment % Water
TM OC 010-28	Oil Density by Digital Density Meter ( ASTM 4052)
TM OC 015-28	Total Sulfur Content in Oil (ASTM 4294 Modified)
TM OC 040-28	Asphaltenes Content of Crude Oil, Condensates and Bitumen (Syncrude 5.1 Modified) Asphaltenes
TM OC 080-28	Organic Phosphorus in Light Crude Oil by ICP (CAPP Organo-Phosphorus modified) Organo-Phosphorus
TM OC 100-28	Nickel and Vanadium in Light Crude Oil by ICP (ASTM D 5708 Modified) Nickle

Vanadium

**(Waste)**

TM SC 051-28                      Flash Point of Hazardous Waste Samples by Closed Cup  
Tester (ASTM-D93 Modified)  
Flash Point

**Notes:**

**CAN-P-4E (ISO/IEC 17025):** General Requirements for the Competence of Testing and Calibration Laboratories (ISO/IEC 17025-2005)

**CAN-P-1585** - Requirements for the Accreditation of Environmental Testing Laboratories

**TM GC-#, TM OC-#, TM WC-#, TM SC-#:** Subject Laboratory in-house Test Methods.

**APHA:** American Public Health Association, Standard Methods for the Examination of Water and Wastewater, 21st Ed.

**ASTM:** American Society of Testing and Materials

**CAPP:** Canadian Association of Petroleum Producers

**EPS:** Environment Canada, Environmental Protection Series

**GPA:** Gas Processors Association

**HACH:** HACH Analytical Procedures for DR/200 and DR/300 Instruments

**Syncrude:** Syncrude Analytical Methods

**EPA:** Environmental Protection Agency

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Chantal Guay, ing., P. Eng.  
Vice President, Accreditation  
Services

Date: 2016-09-06

Number of Scope Listings: 23

SCC 1003-15/361

Partner File #0

Partner: SCC