



Standards Council of Canada
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SCOPE OF ACCREDITATION

Element Materials Technology Canada Inc.
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Accredited Laboratory No. 296
(Conforms with requirements of ISO/IEC 17025:2005)

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CLIENTS SERVED: All interested parties

FIELDS OF TESTING: Chemical/Physical

PROGRAM SPECIALTY AREA: Environmental

INITIAL ACCREDITATION DATE: 1999-07-07

SCOPE ISSUED ON: 2019-04-22

ACCREDITATION VALID TO: 2019-07-07

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Environmental

Soil/Sludge

(Alcohols Soil/Sludge)

TM GC 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 GC 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)
2-Butanone (MEK)
2-Nitropropane
Acetone
Benzene
Carbon disulfide
Ethyl Acetate
Ethyl Benzene
Ethyl Ether
m&p-Cresol
m&p-xylene
Methyl-2-Pentanone (MIBK)
Nitrobenzene
o-Cresol
o-xylene
Toluene

Water (Inorganic)

(Ammonium - Water)

TM WC 020-28 Ammonia in Aqueous Solutions by Colorimetry (HACH Method 8038 Modified)
NH₃

(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)
Iron
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 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
Phosphate
Sulfate

(Kinematic and Absolute Viscosity)

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

(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 5002)
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	Metals in Light Crude Oil by ICP (ASTM D 5708 Modified) Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Phosphorus Potassium Selenium Silicon Silver Sodium Strontium Sulfur

Tin

Titanium

Vanadium

Zinc

Zirconium

(Waste)

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

Notes:

ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration 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

Elias Rafoul, Vice President
Accreditation Services

Date: 2019-04-22

Number of Scope Listings: 23

SCC 1003-15/361

Partner File #0

Partner: None