

Services - Catalogue

3333 University Way, PG, BC, V2N4Z9, Canada

250-960-5713

nals@unbc.ca

“A quality-driven analytical laboratory in the north for the north”

UNBC

Northern Analytical Laboratory Services (NALS)

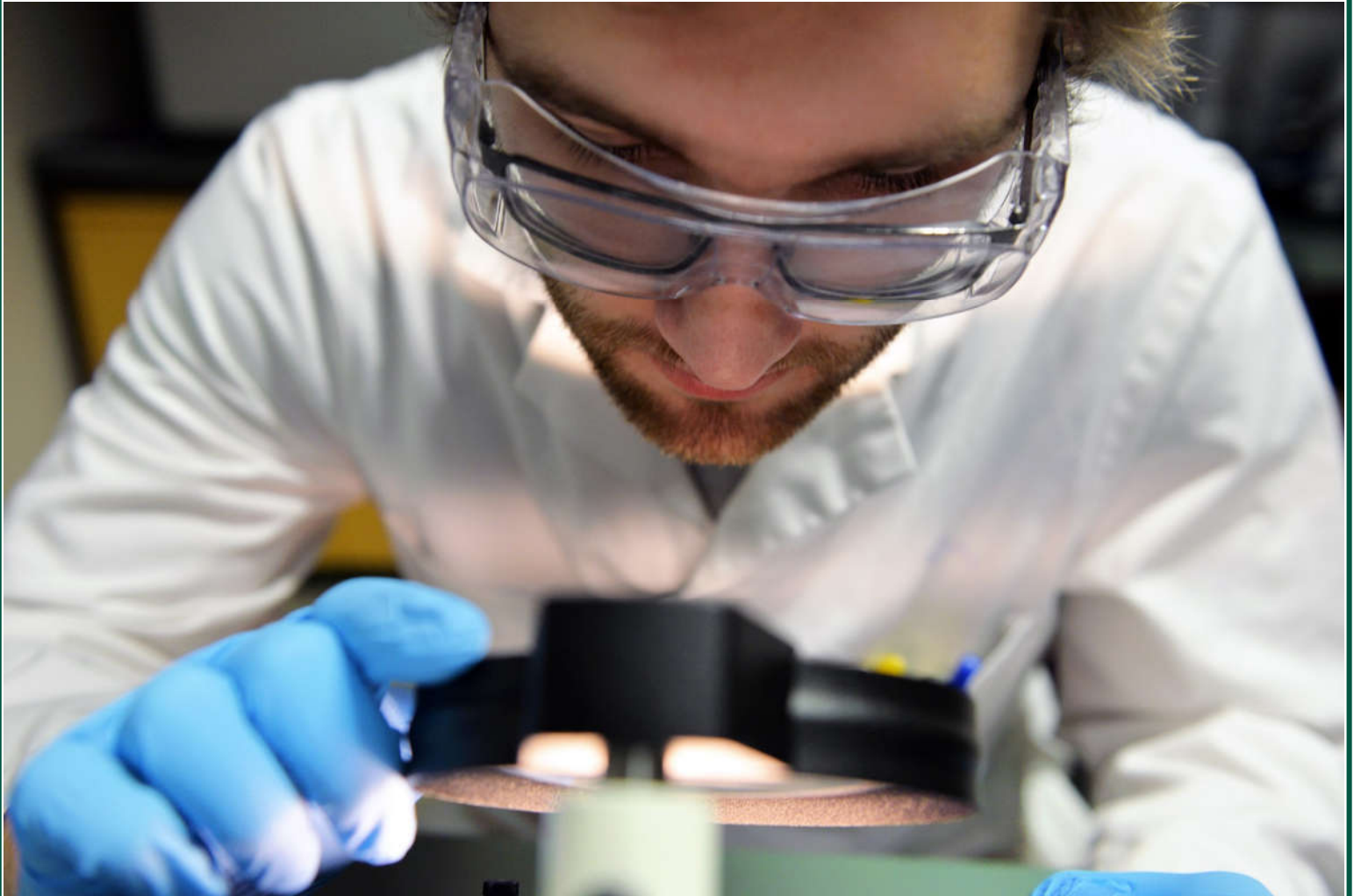


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Qualifications and Accreditations

The Northern Analytical Laboratory Services (NALS) in Prince George, BC is a Standards Council of Canada (SCC), Provincial Health Officer (PHO), International Standards Organization (ISO), and BC Qualified Laboratory accredited for the specified Field(s) of Testing as documented by the scope of accreditation. These fields include the following:

- ❖ ISO 17025:2017
- ❖ Provincial Health Officer Approved Water Microbiology Laboratory
- ❖ The NALS also participates in several Proficiency Analytical Testing (PAT) Programs:
 - AIHA Industrial Hygiene Proficiency Analytical Testing (IHPAT) Program
 - AIHA Gravimetric Pilot Study
 - Environment and Climate Change Canada Proficiency Testing Program
 - Abraxis PT for total Microcystins and nodularin
 - Clinical Microbiology Proficiency Testing (CMPT)



Description of Services

The Northern Analytical Laboratory Services (NALS) – Prince George, is pleased to offer an extensive array of in-house analytical, research, and testing services, listed under four main sections: Water/Liquids Testing, Solids/Soils Testing, Industrial Hygiene testing, and Research Services.

Hours of Operation:

Monday to Friday, 9:00 am to 4:00 pm PST. Closed on Weekends and Statutory Holidays.

*Bacteriological samples are only accepted from Monday to Thursday, 9:00 am to 4:00 pm PST.

Standard Turnaround Time:

5 – 10 business days unless otherwise arranged by the client. For non-routine, custom analyses or method development turnaround times can vary. Details should be discussed with the laboratory technicians at nals@unbc.ca.

RUSH analysis or Testing performed on the Holidays are subject to the applicable surcharge.

For more information about the NALS laboratory please visit: <https://linktr.ee/nalslab>

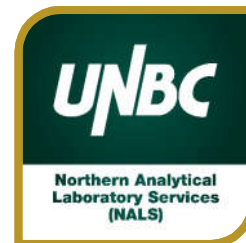
Water/Liquids Testing - Catalogue

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For pricing please contact us

NALS Water Package

- WTR_PKG_A [Physical]
- WTR_PKG_B [Metals]
- WTR_PKG_C [Anions]
- WTR_PKG_D [A+B+C]
- WTR_PKG_E [Bacteriological]
- WTR_PKG_F [Full]

Test	Code
Elemental	WTR_ICPOES
Additional Metals by ICPOES/ICPMS	WTR_ADD_MTL
Elemental	WTR_ICPMS
Dissolved Anions	WTR_IC
Bacteriological	WTR_BACT
Feecal Coliforms	WTR_FCL
Heterotrophic Plate Count	WTR_HPC
Colour	WTR_CLR
Alkalinity	WTR_ALK
pH	WTR_PH
Electrical Conductivity	WTR_EC
Hardness with ICP	WTR_HARD_OES
Hardness w/o ICP	WTR_HARD

Test	Code
Total Organic Carbon	WTR_TOC
Total Inorganic Carbon	WTR_TIC
Total Dissolved Solids	WTR_TDS
Total Suspended Solids	WTR_TSS
Turbidity	WTR_TURB
Total Organic Carbon	WTR_TOC
Ammonia	WTR_NH4
Nitrate-N and Nitrite-N	WTR_NO3_NO2
Organic Nitrogen	WTR_ORG_N
Hexane extractable Oil and Grease	WTR_OIL_GRS
Chlorophyll (a)	WTR_CLPHYLL
COD	WTR_COD
BOD5	WTR_BOD5

Test	Code
Organic Component(s) in Liquids	LIQ_GCFID
Organic Component(s) in Liquids	LIQ_GCMS
Total Dissolved Solids	WTR_TDS
EA-Liquids	LIQ_EA
Total Carbon of Organic Liquids	LIQ_EA_TOT_C
Total Nitrogen of Organic Liquids	LIQ_EA_TOT_N
Total Chlorine	WTR_TOT_CL
Free Chlorine	WTR_FREE_CL
MC and total nodularin quantification	WTR_MC_ELISA
MC and total nodularin quantification	WTR_MC_ELISA20
Specific Gravity	WTR_SPC_GRV
Refractive Index	WTR_RFR_INDX
ClO ₂ measurement	WTR_CLO2_TITRN

Solids/Soils Testing - Catalogue

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NALS Soil Package

- SLD_PKG_A [Physical]
- SLD_PKG_B [Metals]
- SLD_PKG_C [Anions]
- SLD_PKG_D [CEC]
- SLD_PKG_E [Elemental]
- SLD_PKG_F [Full]

For pricing please contact us

Test	Code
Elemental	SLD_ICPOES
Additional Metals by ICPOES/ICPMS	SLD_ADD_MTL
Elemental	SLD_ICPMS
Anions	SLD_IC
pH	SLD_PH
Electrical Conductivity	SLD_EC
Mechanical Sieving	SLD_MECH_SIEVE
Particle Size Distribution	SLD_PSA_DRY
Particle Size Distribution	SLD_PSA_WET
Moisture Content	SLD_MC

Test	Code
Total Carbon and Total Nitrogen	SLD_CN
Total Carbon	SLD_TOT_C
Total Nitrogen	SLD_TOT_N
Total Sulfur	SLD_TOT_S
Total Hydrogen	SLD_TOT_H
Inorganic Carbon	SLD_INORG_C
Non-Volatile Organic Carbon	SLD_NVLT_OC

Test	Code
Carbon-13	SLD_C13
Carbon-13 (from Acid Fumigation)	SLD_C13_FUM
Nitrogen-15	SLD_N15
Ashing	SLD_ASH
Organic Matter Content	SLD_OM
Effective Cation Exchange Capacity	SLD_CEC_NH4
Effective Cation Exchange Capacity	SLD_CEC_BACL2

Test	Code
Bulk Density	SLD_BD
Bulk Density	SLD_BD_APP
Elemental	WTR_ICPMS
Available Ammonium-N	SLD_NH4_N
Mehlich-3 Extractable Metals (P, Ca, Mg, K, Na)	SLD_MHLCH
Carbonate Equivalency	SLD_CCE
Calorimetry	SLD_LIQ_CAL

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Test	Code
Powder XRD	SLD_XRD
XRF (basic)	SLD_XRF
Thermal Gravimetric Analysis (Aluminum pan; max 600°C)	SLD_TGA_AL
Thermal Gravimetric Analysis (Platinum pan; beyond 600°C)	SLD_TGA_PT
Differential Scanning Calorimetry (maximum 450°C)	SLD_DSC
Surface Area Analysis and Adsorption/Desorption - BET	SLD_BET_FULL
Surface Area Analysis - BET	SLD_BET_SA
SEM Imaging	SLD_SEM
Water Holding Capacity	SLD_WHC
Available Water Holding Capacity	SLD_AWHC



Research Services

The Northern Analytical Laboratory Services (NALS) – Prince George is affiliated with the University of Northern British Columbia, a research intensive academic institution and can leverage your R & D investments with the following funds:



innovate BC

Mitacs



Please contact the laboratory manager at nals@unbc.ca, for more details.

Food Microbiology

NEW!

Our lab can now analyze APC and *E.coli* and coliforms in food products!

Test	Code
Aerobic Plate Count	SLD_APC
<i>E.coli</i> and Coliforms	SLD_COLI
APC and <i>E.coli</i> and Coliforms	SLD_BACT

Industrial Hygiene/Air Testing - Catalogue

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Equipment Rentals

Analytes	Sample Medium	Code
No Media, no pump loan	MCE, PVC	AIR_ICPOES_N_MP
Media, no pump*	MCE, PVC	AIR_ICPOES_NP
Media & pump*	MCE, PVC	AIR_ICPOES_P

*Media provided includes a MCE/PVC filter & support pad enclosed in a 37 MM cassette and sealed with a shrink band

**The Analytical tests include free pump rental for 1 week. There will be additional charges for each additional day. Pumps are pre-calibrated to the client's chosen flow rate with the given media using BIOS Defender 500.

Analytical Tests**

For pricing please contact us

Analytes	Method	Instrument	Sample Medium	Code
All metals (Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Hf, Fe, Pb, Mg, Mo, Ni, K, Se, Na, Ta, Te, Tl, Sn, Ti, W, U, V, Zn, Zr)	NIOSH 7303	ICP-OES	MCE 37 MM	AIR_ICPOES
Welding Fume (Sb, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Mo, Ni, V, Zn)	NIOSH 7303	ICP-OES	MCE 37 MM	AIR_ICPOES_WF
9 Metal suite (Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, Zn)	NIOSH 7303	ICP-OES	MCE 37 MM	AIR_ICPOES_9
Gravimetric (total inhalable, total respirable, total dust)	NIOSH 0500	microbalance	PVC	AIR_GRAV

