Your P.O. #: 7559
Your C.O.C. #: 771455-01-01

**Attention: REPORT DISTRIBUTION**

VILLAGE OF PORT ALICE
PO BOX 130
721 Marine Dr.
PORT ALICE, BC
CANADA V0N 2N0

**Report Date: 2025/11/27**
Report #: R3737502
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C594736**
**Received: 2025/11/18, 10:54**

Sample Matrix: Water
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Alkalinity @25C (pp, total), CO3,HCO3,OH | 1 | N/A | 2025/11/19 | BBY6SOP-00026 | SM 24 2320 B m |
| Non-coliform (Background) count in Water | 1 | N/A | 2025/11/18 | BBY4SOP-00001 | SM 24 9222 m |
| Chloride/Sulphate by Auto Colourimetry | 1 | N/A | 2025/11/18 | BBY6SOP-00011 / BBY6SOP-00017 | SM24-4500-Cl/SO4-E m |
| Color (True) by Automated Analyzer | 1 | N/A | 2025/11/18 | BBY6SOP-00057 | SM 24 2120 C m |
| Conductivity @25C | 1 | N/A | 2025/11/19 | BBY6SOP-00026 | SM 24 2510 B m |
| Fluoride | 1 | N/A | 2025/11/19 | BBY6SOP-00037 | SM 24 4500-F C m |
| Sulphide (as H2S) (1) | 1 | N/A | 2025/11/21 | | Auto Calc |
| Hardness Total (calculated as CaCO3) (3) | 1 | N/A | 2025/11/20 | BBY WI-00033 | Auto Calc |
| Mercury (Total) by CV | 1 | 2025/11/21 | 2025/11/21 | BBY7SOP-00032 | BCMOE LM 2023 C1.1.3 |
| Heterotropic Plate Count (MF) in Water | 1 | N/A | 2025/11/18 | BBY4SOP-00003 | SM 24 9215D |
| Iron Related Bacteria (4) | 1 | N/A | 2025/11/18 | BBY4SOP-00004 | BI BART User Manual |
| Na, K, Ca, Mg, S by CRC ICPMS (total) | 1 | N/A | 2025/11/20 | BBY WI-00033 | Auto Calc |
| Elements by CRC ICPMS (total) | 1 | N/A | 2025/11/19 | BBY7SOP-00003 / BBY7SOP-00002 | EPA 6020b R2 m |
| Nitrogen (Total) | 1 | N/A | 2025/11/20 | BBY6SOP-00016 | SM 24 4500-N C m |
| Ammonia-N (Total) | 1 | N/A | 2025/11/20 | AB SOP-00007 | SM 24 4500 NH3 A G m |
| Nitrate + Nitrite (N) | 1 | N/A | 2025/11/18 | BBY6SOP-00010 | SM 24 4500-NO3- H m |
| Nitrite (N) Regular Level Water | 1 | N/A | 2025/11/18 | BBY6SOP-00010 | SM 24 4500-NO2- m |
| Nitrogen - Nitrate (as N) | 1 | N/A | 2025/11/19 | BBY WI-00033 | Auto Calc |
| Nitrogen (Tot. Organic) Calculation | 1 | N/A | 2025/11/21 | BBY WI-00033 | Auto Calc |
| pH @25°C (5) | 1 | N/A | 2025/11/19 | BBY6SOP-00026 | SM 24 4500-H+ B m |
| Sat. pH and Langelier Index (@ 4.4C) | 1 | N/A | 2025/11/20 | BBY WI-00033 | Auto Calc |
| Sat. pH and Langelier Index (@ 60C) | 1 | N/A | 2025/11/20 | BBY WI-00033 | Auto Calc |
| Total Sulphide (1) | 1 | 2025/11/20 | 2025/11/21 | AB SOP-00080 | SM 24 4500 S2-A D Fm |
| Sulphate Reducing Bacteria (4) | 1 | N/A | 2025/11/18 | BBY4SOP-00004 | BI BART User Manual |
| Total Dissolved Solids (Filt. Residue) | 1 | 2025/11/18 | 2025/11/19 | BBY6SOP-00033 | SM 24 2540 C m |
| Total Coliform & E.Coli by MF-Chromocult | 1 | N/A | 2025/11/18 | BBY4SOP-00143 | Merck KGaA Version 1 |
| Carbon (Total Organic) (6) | 1 | N/A | 2025/11/20 | BBY6SOP-00053 | SM 24 5310 B m |
| Turbidity | 1 | N/A | 2025/11/18 | BBY6SOP-00027 | SM 24 2130 B m |
| UV Transmittance (2) | 1 | 2025/11/20 | 2025/11/20 | CAM SOP-00459 | SM 24 5910 m |



Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

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**Report Date: 2025/11/27**
Report #: R3737502
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C594736**
**Received: 2025/11/18, 10:54**

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8

(2) This test was performed by Bureau Veritas Campobello, 6740 Campobello Road , Mississauga, ON, L5N 2L8

(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

(4) Presence/Absence Method. Number is an estimate.

(5) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.

(6) TOC present in the sample should be considered as non-purgeable TOC.



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# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C594736**
**Received: 2025/11/18, 10:54**

Encryption Key

AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
27 Nov 2025 18:32:23

Please direct all questions regarding this Certificate of Analysis to:
Aldean Alicando, Customer Solutions Representative
Email: Aldean.ALICANDO@bureauveritas.com
Phone# (604)734-7276 Ext:7062605

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Gilbert, BBY General Manager responsible for British Columbia Environmental laboratory operations.



Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

## MICROBIOLOGY (WATER)

| Bureau Veritas ID | | DXB412 | | |
|---|---|---|---|---|
| Sampling Date | | 2025/11/17 11:30 | | |
| COC Number | | 771455-01-01 | | |
| | UNITS | WELL #4 | RDL | QC Batch |
| **Microbiological Param.** | | | | |
| Non-Coliform (Background) | CFU/100mL | <1 | 1 | C162470 |
| RDL = Reportable Detection Limit | | | | |



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## VIHA PKG, WELLS/SPRINGS - BURNABY (WATER)

| Bureau Veritas ID | | DXB412 | | |
|---|---|---|---|---|
| Sampling Date | | 2025/11/17 11:30 | | |
| COC Number | | 771455-01-01 | | |
| | **UNITS** | **WELL #4** | **RDL** | **QC Batch** |
| **ANIONS** | | | | |
| Nitrite (N) | mg/L | <0.0050 | 0.0050 | C162653 |
| **Calculated Parameters** | | | | |
| Total Hardness (CaCO3) | mg/L | 142 | 0.50 | C161801 |
| Nitrate (N) | mg/L | 0.666 | 0.020 | C161743 |
| Total Organic Nitrogen (N) | mg/L | <0.020 | 0.020 | C162414 |
| Sulphide (as H2S) | mg/L | <0.0020 | 0.0020 | C161851 |
| **Misc. Inorganics** | | | | |
| Conductivity | uS/cm | 320 | 2.0 | C162620 |
| pH | pH | 8.07 | N/A | C162623 |
| Total Organic Carbon (C) | mg/L | <0.50 | 0.50 | C164205 |
| Total Dissolved Solids | mg/L | 190 | 10 | C162604 |
| **Anions** | | | | |
| Alkalinity (PP as CaCO3) | mg/L | <1.0 | 1.0 | C162619 |
| Alkalinity (Total as CaCO3) | mg/L | 140 | 1.0 | C162619 |
| Bicarbonate (HCO3) | mg/L | 170 | 1.0 | C162619 |
| Carbonate (CO3) | mg/L | <1.0 | 1.0 | C162619 |
| Fluoride (F) | mg/L | 0.15 | 0.050 | C163340 |
| Hydroxide (OH) | mg/L | <1.0 | 1.0 | C162619 |
| Total Sulphide | mg/L | <0.0018 | 0.0018 | C164499 |
| Chloride (Cl) | mg/L | 10 | 1.0 | C162642 |
| Sulphate (SO4) | mg/L | 10 | 1.0 | C162642 |
| **MISCELLANEOUS** | | | | |
| True Colour | Col. Unit | <2.0 | 2.0 | C162638 |
| Transmittance at 254nm | %T/cm | 100 | N/A | C164370 |
| **Nutrients** | | | | |
| Total Ammonia (N) | mg/L | <0.015 | 0.015 | C163449 |
| Nitrate plus Nitrite (N) | mg/L | 0.666 | 0.020 | C162650 |
| Total Nitrogen (N) | mg/L | 0.625 (1) | 0.020 | C163283 |
| **Physical Properties** | | | | |
| Turbidity | NTU | 0.13 | 0.10 | C162467 |

RDL = Reportable Detection Limit

N/A = Not Applicable

(1) Nitrogen < Nitrate: Both values fall within the method uncertainty for duplicates and are likely equivalent.



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## VIHA PKG, WELLS/SPRINGS - BURNABY (WATER)

| Bureau Veritas ID | | DXB412 | | |
|---|---|---|---|---|
| Sampling Date | | 2025/11/17 11:30 | | |
| COC Number | | 771455-01-01 | | |
| | UNITS | WELL #4 | RDL | QC Batch |
| **Elements** | | | | |
| Total Mercury (Hg) | ug/L | <0.0019 | 0.0019 | C171389 |
| **Total Metals by ICPMS** | | | | |
| Total Aluminum (Al) | ug/L | <3.0 | 3.0 | C163162 |
| Total Antimony (Sb) | ug/L | <0.50 | 0.50 | C163162 |
| Total Arsenic (As) | ug/L | 0.92 | 0.10 | C163162 |
| Total Barium (Ba) | ug/L | 11.7 | 1.0 | C163162 |
| Total Beryllium (Be) | ug/L | <0.10 | 0.10 | C163162 |
| Total Bismuth (Bi) | ug/L | <1.0 | 1.0 | C163162 |
| Total Boron (B) | ug/L | <50 | 50 | C163162 |
| Total Cadmium (Cd) | ug/L | <0.010 | 0.010 | C163162 |
| Total Chromium (Cr) | ug/L | <1.0 | 1.0 | C163162 |
| Total Cobalt (Co) | ug/L | <0.20 | 0.20 | C163162 |
| Total Copper (Cu) | ug/L | 1.73 | 0.20 | C163162 |
| Total Iron (Fe) | ug/L | <5.0 | 5.0 | C163162 |
| Total Lead (Pb) | ug/L | <0.20 | 0.20 | C163162 |
| Total Manganese (Mn) | ug/L | <1.0 | 1.0 | C163162 |
| Total Molybdenum (Mo) | ug/L | 2.3 | 1.0 | C163162 |
| Total Nickel (Ni) | ug/L | <1.0 | 1.0 | C163162 |
| Total Selenium (Se) | ug/L | 0.40 | 0.10 | C163162 |
| Total Silicon (Si) | ug/L | 6030 | 100 | C163162 |
| Total Silver (Ag) | ug/L | <0.020 | 0.020 | C163162 |
| Total Strontium (Sr) | ug/L | 497 | 1.0 | C163162 |
| Total Thallium (Tl) | ug/L | <0.010 | 0.010 | C163162 |
| Total Tin (Sn) | ug/L | <5.0 | 5.0 | C163162 |
| Total Titanium (Ti) | ug/L | <5.0 | 5.0 | C163162 |
| Total Uranium (U) | ug/L | 0.96 | 0.10 | C163162 |
| Total Vanadium (V) | ug/L | <5.0 | 5.0 | C163162 |
| Total Zinc (Zn) | ug/L | <5.0 | 5.0 | C163162 |
| Total Zirconium (Zr) | ug/L | <0.10 | 0.10 | C163162 |
| Total Calcium (Ca) | mg/L | 41.6 | 0.050 | C161944 |
| Total Magnesium (Mg) | mg/L | 9.22 | 0.050 | C161944 |
| Total Potassium (K) | mg/L | 0.718 | 0.050 | C161944 |
| Total Sodium (Na) | mg/L | 7.00 | 0.050 | C161944 |
| Total Sulphur (S) | mg/L | 3.3 | 3.0 | C161944 |
| RDL = Reportable Detection Limit | | | | |



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## VIHA PKG, WELLS/SPRINGS - BURNABY (WATER)

| Bureau Veritas ID | | DXB412 | | |
|---|---|---|---|---|
| Sampling Date | | 2025/11/17 11:30 | | |
| COC Number | | 771455-01-01 | | |
| | **UNITS** | **WELL #4** | **RDL** | **QC Batch** |
| **Microbiological Param.** | | | | |
| Heterotrophic Plate Count | CFU/mL | 6 | 1 | C162477 |
| Iron Bacteria | CFU/mL | <25 | 25 | C162503 |
| Sulphate reducing bacteria | CFU/mL | <75 | 75 | C162506 |
| Total Coliforms | CFU/100mL | 0 | N/A | C162487 |
| E. coli | CFU/100mL | 0 | N/A | C162487 |
| **Calculated Parameters** | | | | |
| Langelier Index (@ 4.4C) | N/A | 0.190 | N/A | C162419 |
| Langelier Index (@ 60C) | N/A | 0.950 | N/A | C162421 |
| Saturation pH (@ 4.4C) | N/A | 7.88 | N/A | C162419 |
| Saturation pH (@ 60C) | N/A | 7.12 | N/A | C162421 |

RDL = Reportable Detection Limit
N/A = Not Applicable



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## GENERAL COMMENTS

Sample DXB412 [WELL #4] : Sample was analyzed past recommended hold time for Heterotropic Plate Count (MF) in Water. Sample was analyzed past recommended hold time for Iron Related Bacteria. Sample was analyzed past recommended hold time for Sulphate Reducing Bacteria.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| C162467 | VMP | Spiked Blank | Turbidity | 2025/11/18 | | 103 | % | 80 - 120 |
| C162467 | VMP | Method Blank | Turbidity | 2025/11/18 | <0.10 | | NTU | |
| C162467 | VMP | RPD | Turbidity | 2025/11/18 | 0 | | % | 20 |
| C162604 | VMP | Matrix Spike | Total Dissolved Solids | 2025/11/19 | | 99 | % | 80 - 120 |
| C162604 | VMP | Spiked Blank | Total Dissolved Solids | 2025/11/19 | | 98 | % | 80 - 120 |
| C162604 | VMP | Method Blank | Total Dissolved Solids | 2025/11/19 | <10 | | mg/L | |
| C162604 | VMP | RPD | Total Dissolved Solids | 2025/11/19 | 0 | | % | 20 |
| C162619 | JLP | Spiked Blank | Alkalinity (Total as CaCO3) | 2025/11/19 | | 96 | % | 80 - 120 |
| C162619 | JLP | Method Blank | Alkalinity (PP as CaCO3) | 2025/11/19 | <1.0 | | mg/L | |
| | | | Alkalinity (Total as CaCO3) | 2025/11/19 | <1.0 | | mg/L | |
| | | | Bicarbonate (HCO3) | 2025/11/19 | <1.0 | | mg/L | |
| | | | Carbonate (CO3) | 2025/11/19 | <1.0 | | mg/L | |
| | | | Hydroxide (OH) | 2025/11/19 | <1.0 | | mg/L | |
| C162619 | JLP | RPD | Alkalinity (PP as CaCO3) | 2025/11/19 | NC | | % | 20 |
| | | | Alkalinity (Total as CaCO3) | 2025/11/19 | 0.49 | | % | 20 |
| | | | Bicarbonate (HCO3) | 2025/11/19 | 0.49 | | % | 20 |
| | | | Carbonate (CO3) | 2025/11/19 | NC | | % | 20 |
| | | | Hydroxide (OH) | 2025/11/19 | NC | | % | 20 |
| C162620 | JLP | Spiked Blank | Conductivity | 2025/11/19 | | 100 | % | 90 - 110 |
| C162620 | JLP | Method Blank | Conductivity | 2025/11/19 | <2.0 | | uS/cm | |
| C162620 | JLP | RPD | Conductivity | 2025/11/19 | 0 | | % | 10 |
| C162623 | JLP | Spiked Blank | pH | 2025/11/19 | | 100 | % | 97 - 103 |
| C162623 | JLP | RPD | pH | 2025/11/19 | 0.13 | | % | N/A |
| C162638 | NKT | Spiked Blank | True Colour | 2025/11/18 | | 106 | % | 80 - 120 |
| C162638 | NKT | Method Blank | True Colour | 2025/11/18 | <2.0 | | Col. Unit | |
| C162638 | NKT | RPD | True Colour | 2025/11/18 | 17 | | % | 20 |
| C162642 | CBK | Matrix Spike | Chloride (Cl) | 2025/11/18 | | 106 | % | 80 - 120 |
| | | | Sulphate (SO4) | 2025/11/18 | | 114 | % | 80 - 120 |
| C162642 | CBK | Spiked Blank | Chloride (Cl) | 2025/11/18 | | 99 | % | 80 - 120 |
| | | | Sulphate (SO4) | 2025/11/18 | | 95 | % | 80 - 120 |
| C162642 | CBK | Method Blank | Chloride (Cl) | 2025/11/18 | <1.0 | | mg/L | |
| | | | Sulphate (SO4) | 2025/11/18 | <1.0 | | mg/L | |
| C162642 | CBK | RPD | Chloride (Cl) | 2025/11/18 | 1.0 | | % | 20 |
| | | | Sulphate (SO4) | 2025/11/18 | 0.33 | | % | 20 |
| C162650 | JGL | Matrix Spike | Nitrate plus Nitrite (N) | 2025/11/18 | | 105 | % | 80 - 120 |
| C162650 | JGL | Spiked Blank | Nitrate plus Nitrite (N) | 2025/11/18 | | 107 | % | 80 - 120 |
| C162650 | JGL | Method Blank | Nitrate plus Nitrite (N) | 2025/11/18 | <0.020 | | mg/L | |
| C162650 | JGL | RPD | Nitrate plus Nitrite (N) | 2025/11/18 | 2.9 | | % | 25 |
| C162653 | JGL | Matrix Spike | Nitrite (N) | 2025/11/18 | | 112 | % | 80 - 120 |
| C162653 | JGL | Spiked Blank | Nitrite (N) | 2025/11/18 | | 104 | % | 80 - 120 |
| C162653 | JGL | Method Blank | Nitrite (N) | 2025/11/18 | <0.0050 | | mg/L | |
| C162653 | JGL | RPD | Nitrite (N) | 2025/11/18 | NC | | % | 20 |
| C163162 | AA1 | Matrix Spike | Total Aluminum (Al) | 2025/11/19 | | 95 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/11/19 | | 96 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/11/19 | | 99 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/11/19 | | 98 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/11/19 | | 106 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/11/19 | | 96 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/11/19 | | 104 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/11/19 | | 99 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/11/19 | | 97 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/11/19 | | 98 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/11/19 | | NC | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/11/19 | | 100 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/11/19 | | 96 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Manganese (Mn) | 2025/11/19 | | 92 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/11/19 | | 95 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/11/19 | | 96 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/11/19 | | 91 | % | 80 - 120 |
| | | | Total Silicon (Si) | 2025/11/19 | | 98 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/11/19 | | 96 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/11/19 | | 104 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/11/19 | | 97 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/11/19 | | 96 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/11/19 | | 100 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/11/19 | | 100 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/11/19 | | 98 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/11/19 | | 100 | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2025/11/19 | | 99 | % | 80 - 120 |
| C163162 | AA1 | Spiked Blank | Total Aluminum (Al) | 2025/11/19 | | 98 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/11/19 | | 100 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/11/19 | | 100 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/11/19 | | 100 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/11/19 | | 103 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/11/19 | | 101 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/11/19 | | 101 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/11/19 | | 98 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/11/19 | | 101 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/11/19 | | 101 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/11/19 | | 99 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/11/19 | | 100 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/11/19 | | 102 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/11/19 | | 95 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/11/19 | | 100 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/11/19 | | 98 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/11/19 | | 97 | % | 80 - 120 |
| | | | Total Silicon (Si) | 2025/11/19 | | 101 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/11/19 | | 96 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/11/19 | | 92 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/11/19 | | 101 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/11/19 | | 101 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/11/19 | | 102 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/11/19 | | 104 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/11/19 | | 101 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/11/19 | | 103 | % | 80 - 120 |
| | | | Total Zirconium (Zr) | 2025/11/19 | | 99 | % | 80 - 120 |
| C163162 | AA1 | Method Blank | Total Aluminum (Al) | 2025/11/19 | <3.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/11/19 | <0.50 | | ug/L | |
| | | | Total Arsenic (As) | 2025/11/19 | <0.10 | | ug/L | |
| | | | Total Barium (Ba) | 2025/11/19 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/11/19 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/11/19 | <1.0 | | ug/L | |
| | | | Total Boron (B) | 2025/11/19 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/11/19 | <0.010 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/11/19 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/11/19 | <0.20 | | ug/L | |
| | | | Total Copper (Cu) | 2025/11/19 | <0.20 | | ug/L | |
| | | | Total Iron (Fe) | 2025/11/19 | <5.0 | | ug/L | |
| | | | Total Lead (Pb) | 2025/11/19 | <0.20 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/11/19 | <1.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Molybdenum (Mo) | 2025/11/19 | <1.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/11/19 | <1.0 | | ug/L | |
| | | | Total Selenium (Se) | 2025/11/19 | <0.10 | | ug/L | |
| | | | Total Silicon (Si) | 2025/11/19 | <100 | | ug/L | |
| | | | Total Silver (Ag) | 2025/11/19 | <0.020 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/11/19 | <1.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/11/19 | <0.010 | | ug/L | |
| | | | Total Tin (Sn) | 2025/11/19 | <5.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/11/19 | <5.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/11/19 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/11/19 | <5.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/11/19 | <5.0 | | ug/L | |
| | | | Total Zirconium (Zr) | 2025/11/19 | <0.10 | | ug/L | |
| C163162 | AA1 | RPD | Total Aluminum (Al) | 2025/11/19 | 1.5 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/11/19 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/11/19 | NC | | % | 20 |
| | | | Total Barium (Ba) | 2025/11/19 | 0.74 | | % | 20 |
| | | | Total Boron (B) | 2025/11/19 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/11/19 | NC | | % | 20 |
| | | | Total Chromium (Cr) | 2025/11/19 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/11/19 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/11/19 | 1.4 | | % | 20 |
| | | | Total Iron (Fe) | 2025/11/19 | 16 | | % | 20 |
| | | | Total Lead (Pb) | 2025/11/19 | 2.4 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/11/19 | NC | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/11/19 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/11/19 | NC | | % | 20 |
| | | | Total Selenium (Se) | 2025/11/19 | NC | | % | 20 |
| | | | Total Silicon (Si) | 2025/11/19 | 0.30 | | % | 20 |
| | | | Total Silver (Ag) | 2025/11/19 | NC | | % | 20 |
| | | | Total Strontium (Sr) | 2025/11/19 | 1.0 | | % | 20 |
| | | | Total Uranium (U) | 2025/11/19 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/11/19 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/11/19 | 1.5 | | % | 20 |
| C163283 | BB3 | Matrix Spike | Total Nitrogen (N) | 2025/11/20 | | NC | % | 80 - 120 |
| C163283 | BB3 | Spiked Blank | Total Nitrogen (N) | 2025/11/20 | | 104 | % | 80 - 120 |
| C163283 | BB3 | Method Blank | Total Nitrogen (N) | 2025/11/20 | <0.020 | | mg/L | |
| C163283 | BB3 | RPD | Total Nitrogen (N) | 2025/11/20 | 11 | | % | 20 |
| C163340 | CJY | Matrix Spike [DXB412-01] | Dissolved Fluoride (F) | 2025/11/19 | | 106 | % | 80 - 120 |
| C163340 | CJY | Spiked Blank | Dissolved Fluoride (F) | 2025/11/19 | | 102 | % | 80 - 120 |
| C163340 | CJY | Method Blank | Dissolved Fluoride (F) | 2025/11/19 | <0.050 | | mg/L | |
| C163340 | CJY | RPD | Fluoride (F) | 2025/11/19 | 1.2 | | % | 20 |
| C163449 | BB3 | Matrix Spike | Total Ammonia (N) | 2025/11/20 | | 96 | % | 80 - 120 |
| C163449 | BB3 | Spiked Blank | Total Ammonia (N) | 2025/11/20 | | 100 | % | 80 - 120 |
| C163449 | BB3 | Method Blank | Total Ammonia (N) | 2025/11/20 | <0.015 | | mg/L | |
| C163449 | BB3 | RPD | Total Ammonia (N) | 2025/11/20 | NC | | % | 20 |
| C164205 | BTM | Matrix Spike | Total Organic Carbon (C) | 2025/11/20 | | 122 (1) | % | 80 - 120 |
| C164205 | BTM | Spiked Blank | Total Organic Carbon (C) | 2025/11/20 | | 110 | % | 80 - 120 |
| C164205 | BTM | Method Blank | Total Organic Carbon (C) | 2025/11/20 | <0.50 | | mg/L | |
| C164205 | BTM | RPD | Total Organic Carbon (C) | 2025/11/20 | NC | | % | 20 |
| C164370 | éEY | Spiked Blank | Transmittance at 254nm | 2025/11/20 | | 100 | % | 97 - 103 |
| C164370 | éEY | RPD | Transmittance at 254nm | 2025/11/20 | 0.18 | | % | 25 |
| C164499 | DSX | Matrix Spike | Total Sulphide | 2025/11/21 | | 81 | % | 80 - 120 |
| C164499 | DSX | Spiked Blank | Total Sulphide | 2025/11/21 | | 93 | % | 80 - 120 |
| C164499 | DSX | Method Blank | Total Sulphide | 2025/11/21 | <0.0018 | | mg/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| C171389 | RLC | Matrix Spike | Total Mercury (Hg) | 2025/11/21 | | 117 | % | 80 - 120 |
| C171389 | RLC | Spiked Blank | Total Mercury (Hg) | 2025/11/21 | | 113 | % | 80 - 120 |
| C171389 | RLC | Method Blank | Total Mercury (Hg) | 2025/11/21 | <0.0019 | | ug/L | |
| C171389 | RLC | RPD | Total Mercury (Hg) | 2025/11/21 | NC | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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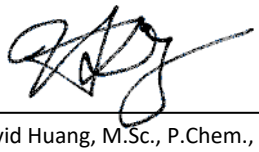
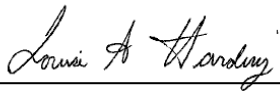
## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



David Huang, M.Sc., P.Chem., QP, Scientific Services Manager



Louise Harding, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Certified by Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Bureau Veritas Certified by David Huang, M.Sc., P.Chem., QP, Scientific Services Manager

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Gilbert, BBY General Manager responsible for British Columbia Environmental laboratory operations.



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C594736
2025/11/18 10:54

Bureau Veritas
Unit 1-851 Viewfield Rd, Victoria, British Columbia Canada V9A 4V2 Tel:(250) 385 6112 Toll-free:800-563-6266 Fax:(250) 382 6364 www.bvna.com



# Chain Of Custody Record

| Invoice To: | | Report Information | | Project Information | | Laboratory Use Only | |
|---|---|---|---|---|---|---|---|
| Company Name | #11788 VILLAGE OF PORT ALICE | Company Name | | Quotation # | C41722 | Bureau Veritas Job # | Bottle Order #: |
| Contact Name | ACCTS PAYABLE - Tanya Sparford | Contact Name | REPORT DISTRIBUTION | P.O. # | ~~2880~~ 75% | | 771455 |
| Address | PO BOX 130 721 Marine Dr. | Address | | Project # | | | |
| | PORT ALICE BC V0N 2N0 | | | Project Name | | Chain Of Custody Record | Project Manager |
| Phone | (250) 284-6612 Fax: | Phone | Fax: | Site # | | C#771455-03-01 | Aldean Alicando |
| Email | info@portalice.ca | Email | info@portalice.ca; papublicworks@hotmail.com | Sampled By | Sasha Dunkeer | | |

Regulatory Criteria:
- ☐ CSR
- ☐ CCME
- ☐ BC Water Quality
- ☐ Other

Special Instructions

SAMPLES MUST BE KEPT COOL ( < 10°C ) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

| | Sample Barcode Label | Sample (Location) Identification | Date Sampled | Time Sampled | Matrix | Metals Field Filtered ? (Y / N) | VIHA Pkg. Wells/Springs - Burnaby | Non-coliform (Background) count in Water | # of Bottles | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | Well #4 | 11:30am | | | | X | X | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

**Regular (Standard) TAT:**

*(will be applied if Rush TAT is not specified):*

*Standard TAT = 5-7 Working days for most tests..*

*Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.*

☐

**Job Specific Rush TAT (if applies to entire submission)**

1 DAY ☐ 2 Day ☐ 3 Day ☐ Date Required: _____ ☐

Rush Confirmation Number: _____ *(call lab for #)*

MVAN-2025-11-1179

| * RELINQUISHED BY: (Signature/Print) | Date: (YY/MM/DD) | Time | RECEIVED BY: (Signature/Print) | Date: (YY/MM/DD) | Time | # jars used and not submitted | Lab Use Only: Time Sensitive | Temperature (°C) on Receipt | Custody Seal Intact on Cooler? |
|---|---|---|---|---|---|---|---|---|---|
| Sasha Dunkeer | 25/11/17 | 11:50am | Emmanuel Sisiolo GS | 2025/11/18 | 10:54 | | ☐ | | ☐ Yes ☐ No |

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

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Page of

# Chain Of Custody Record

| Invoice To: | | Report Information | | Project Information | | Laboratory Use Only | |
|---|---|---|---|---|---|---|---|
| Company Name | #11788 VILLAGE OF PORT ALICE | Company Name | | Quotation # | C41722 | Bureau Veritas Job # | Bottle Order #: |
| Contact Name | ACCTS PAYABLE - Tanya Sparford | Contact Name | REPORT DISTRIBUTION | P.O. # | ~~2500~~ 7596 | | 771455 |
| Address | PO BOX 130 721 Marine Dr. | Address | | Project # | | Chain Of Custody Record | Project Manager |
| | PORT ALICE BC V0N 2N0 | | | Project Name | | C#771455-03-01 | Aldean Alicando |
| Phone | (250) 284-6612 Fax: | Phone | Fax: | Site # | | | |
| Email | info@portalice.ca | Email | info@portalice.ca; papublicworks@hotmail.com | Sampled By | ~~Tanya~~ Sasha Hunter | | |

Regulatory Criteria:
- ☐ CSR
- ☐ CCME
- ☐ BC Water Quality
- ☐ Other _____

Special Instructions

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

**Regular (Standard) TAT:** ☐
*(will be applied if Rush TAT is not specified):*
*Standard TAT = 5-7 Working days for most tests..*
*Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.*

**Job Specific Rush TAT (if applies to entire submission)**
1 DAY ☐ 2 Day ☐ 3 Day ☐ Date Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

**SAMPLES MUST BE KEPT COOL ( < 10°C ) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS**

| | Sample Barcode Label | Sample (Location) Identification | Date Sampled | Time Sampled | Matrix | Metals Field Filtered ? ( Y / N ) | VIHA Pkg. Wells/Springs - Burnaby | Non-coliform (Background) count in Water | # of Bottles | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | Well #4 | 11:30am | | | | X | X | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |

C594736_COC

| * RELINQUISHED BY: (Signature/Print) | Date: (YY/MM/DD) | Time | RECEIVED BY: (Signature/Print) | Date: (YY/MM/DD) | Time | # jars used and not submitted | Lab Use Only: Time Sensitive | Temperature (°C) on Receipt | Custody Seal Intact on Cooler? |
|---|---|---|---|---|---|---|---|---|---|
| ~~Tanya~~ Sasha Hunter | 25/11/17 | 11:50am | Emmanuel Salido GS | 2025/11/18 | 10:54 | | ☐ | | ☐ Yes ☐ No |

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

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