



January 20, 2022

Service Request No:K2200132

Kathryn Myklebust  
Woodland, City of  
P.O. Box 9  
Woodland, WA 98674

**Laboratory Results for: HSL Testing**

Dear Kathryn,

Enclosed are the results of the sample(s) submitted to our laboratory January 05, 2022  
For your reference, these analyses have been assigned our service request number **K2200132**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3350. You may also contact me via email at [Kelley.Lovejoy@alsglobal.com](mailto:Kelley.Lovejoy@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Kelley Lovejoy  
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626  
PHONE +1 360 577 7222 | FAX +1 360 636 1068  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Woodland, City of  
**Project:** HSL Testing  
**Sample Matrix:** Water

**Service Request:** K2200132  
**Date Received:** 01/05/2022

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier I level requested by the client.

**Sample Receipt:**

Two water samples were received for analysis at ALS Environmental on 01/05/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**General Chemistry:**

No significant anomalies were noted with this analysis.

Approved by Kelley Lovejoy

Date 01/20/2022



## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Woodland, City of  
**Project:** HSL Testing/Horseshoe Lake

**Service Request:**K2200132

**SAMPLE CROSS-REFERENCE**

| <u>SAMPLE #</u> | <u>CLIENT SAMPLE ID</u> | <u>DATE</u> | <u>TIME</u> |
|-----------------|-------------------------|-------------|-------------|
| K2200132-001    | Bouy 3                  | 1/5/2022    | 0835        |
| K2200132-002    | Bouy 2                  | 1/5/2022    | 0900        |



CHAIN OF CUSTODY  
120306

001

SR# \_\_\_\_\_  
COC Set \_\_\_\_ of \_\_\_\_  
COC# \_\_\_\_\_

1317 South 13th Ave. Kelso, WA 98626 Phone (360) 577-7222 / 800-695-7222 / FAX (360) 636-1068  
www.alsglobal.com

V2200132

|                                             |  |                                           |  |
|---------------------------------------------|--|-------------------------------------------|--|
| Project Name: <u>HSL Testing</u>            |  | Project Number: <u>Horseshowlake</u>      |  |
| Project Manager: <u>Kathryn Myklebust</u>   |  |                                           |  |
| Company: <u>City of Woodland</u>            |  |                                           |  |
| Address: <u>PO Box 9 Woodland, WA 98674</u> |  |                                           |  |
| Phone #: <u>360 225-7999</u>                |  | email: <u>myklebust@ci.woodland.wa.us</u> |  |
| Sampler Signature: <u>[Signature]</u>       |  | Sampler Printed Name: <u>Gary Oliver</u>  |  |

| CLIENT SAMPLE ID             | LABID        | SAMPLING Date Time    | Matrix                | NUMBER OF CONTAINERS |     |  |  |  |  |  |  |  |  | Remarks |  |               |                  |
|------------------------------|--------------|-----------------------|-----------------------|----------------------|-----|--|--|--|--|--|--|--|--|---------|--|---------------|------------------|
|                              |              |                       |                       | 365.3 / Phos T       | 28D |  |  |  |  |  |  |  |  |         |  |               |                  |
| 1. <u>Bay 3 - Mid Pt.</u>    | <u>Bay 3</u> | <u>1/5/22 8:35 AM</u> | <u>H<sub>2</sub>O</u> | 1                    | X   |  |  |  |  |  |  |  |  |         |  | <u>Secchi</u> | <u>Surf Temp</u> |
| 2. <u>Bay 2 - Swim Beach</u> | <u>Bay 2</u> | <u>1/5/22 9:00 AM</u> | <u>H<sub>2</sub>O</u> | 1                    | X   |  |  |  |  |  |  |  |  |         |  | <u>12'</u>    | <u>40.1°</u>     |
| 3.                           |              |                       |                       |                      |     |  |  |  |  |  |  |  |  |         |  |               |                  |
| 4.                           |              |                       |                       |                      |     |  |  |  |  |  |  |  |  |         |  |               |                  |
| 5.                           |              |                       |                       |                      |     |  |  |  |  |  |  |  |  |         |  |               |                  |
| 6.                           |              |                       |                       |                      |     |  |  |  |  |  |  |  |  |         |  |               |                  |
| 7.                           |              |                       |                       |                      |     |  |  |  |  |  |  |  |  |         |  |               |                  |
| 8.                           |              |                       |                       |                      |     |  |  |  |  |  |  |  |  |         |  |               |                  |
| 9.                           |              |                       |                       |                      |     |  |  |  |  |  |  |  |  |         |  |               |                  |
| 10.                          |              |                       |                       |                      |     |  |  |  |  |  |  |  |  |         |  |               |                  |

|                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                         |                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Requirements</b><br><input type="checkbox"/> I. Routine Report: Method Blank, Surrogate, as required<br><input type="checkbox"/> II. Report Dup., MS, MSD as required<br><input type="checkbox"/> III. CLP Like Summary (no raw data)<br><input type="checkbox"/> IV. Data Validation Report<br><input type="checkbox"/> V. EDD | <b>Invoice Information</b><br>P.O.# _____<br>Bill To: _____<br>_____<br>_____                                                                                                                           | Circle which metals are to be analyzed<br>Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg<br>Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg |
|                                                                                                                                                                                                                                                                                                                                           | <b>Turnaround Requirements</b><br><input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr.<br><input type="checkbox"/> 5 Day<br><input type="checkbox"/> Standard<br>Requested Report Date _____ | Special Instructions/Comments: _____<br>*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other _____ (Circle One)                                                                                                               |

|                                       |                                       |                                       |                                 |                        |                     |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------|------------------------|---------------------|
| Relinquished By: <u>[Signature]</u>   | Received By: <u>[Signature]</u>       | Relinquished By: <u>[Signature]</u>   | Received By: <u>[Signature]</u> | Relinquished By: _____ | Received By: _____  |
| Signature: <u>Gary Oliver</u>         | Signature: <u>Kathryn Myklebust</u>   | Signature: <u>Kathryn Myklebust</u>   | Signature: <u>M. Mulligan</u>   | Signature: _____       | Signature: _____    |
| Printed Name: <u>City of Woodland</u> | Printed Name: <u>City of Woodland</u> | Printed Name: <u>City of Woodland</u> | Printed Name: <u>ALS</u>        | Printed Name: _____    | Printed Name: _____ |
| Firm: <u>1/5/22 10:20 AM</u>          | Firm: <u>1/5/22 10:20 AM</u>          | Firm: <u>1/5/22 1:00 PM</u>           | Firm: <u>1/5/21 1300</u>        | Firm: _____            | Firm: _____         |
| Date/Time: _____                      | Date/Time: _____                      | Date/Time: _____                      | Date/Time: _____                | Date/Time: _____       | Date/Time: _____    |

### Cooler Receipt and Preservation Form

Client City of Woodland Service Request K22 00132  
 Received: 1/5/22 Opened: 1/5/22 By: mm Unloaded: 1/5/22 By: mm

1. Samples were received via?  USPS  Fed Ex  UPS  DHL  PDX  Courier  Hand Delivered
  2. Samples were received in: (circle)  Cooler  Box  Envelope  Other  NA
  3. Were custody seals on coolers? NA  Y  N If yes, how many and where? 1 front  
 If present, were custody seals intact?  Y  N If present, were they signed and dated?  Y  N
  4. Was a Temperature Blank present in cooler? NA  Y  N If yes, note the temperature in the appropriate column below:  
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
  5. Were samples received within the method specified temperature ranges? NA  Y  N  
 If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA  Y  N
- If applicable, tissue samples were received:  Frozen  Partially Thawed  Thawed

| Temp Blank  | Sample Temp | IR Gun      | Cooler #/COC ID /NA | Out of temp indicate with "X" | PM Notified If out of temp | Tracking Number | NA                                     | Filed |
|-------------|-------------|-------------|---------------------|-------------------------------|----------------------------|-----------------|----------------------------------------|-------|
| <u>12.5</u> | <u>10.6</u> | <u>1201</u> |                     | <u>—</u>                      |                            |                 | <input checked="" type="checkbox"/> NA |       |
|             |             |             |                     |                               |                            |                 |                                        |       |
|             |             |             |                     |                               |                            |                 |                                        |       |
|             |             |             |                     |                               |                            |                 |                                        |       |
|             |             |             |                     |                               |                            |                 |                                        |       |

6. Packing material:  Inserts  Baggies  Bubble Wrap  Gel Packs  Wet Ice  Dry Ice  Sleeves
7. Were custody papers properly filled out (ink, signed, etc.)? NA  Y  N
8. Were samples received in good condition (unbroken) NA  Y  N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA  Y  N
10. Did all sample labels and tags agree with custody papers? NA  Y  N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA  Y  N
12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA  Y  N
13. Were VOA vials received without headspace? Indicate in the table below  NA  Y  N
14. Was C12/Res negative?  NA  Y  N

| Sample ID on Bottle | Sample ID on COC | Identified by: |
|---------------------|------------------|----------------|
|                     |                  |                |
|                     |                  |                |
|                     |                  |                |

| Sample ID | Bottle Count | Bottle Type | Head-space | Broke | pH | Reagent | Volume added | Reagent Lot Number | Initials | Time |
|-----------|--------------|-------------|------------|-------|----|---------|--------------|--------------------|----------|------|
|           |              |             |            |       |    |         |              |                    |          |      |
|           |              |             |            |       |    |         |              |                    |          |      |
|           |              |             |            |       |    |         |              |                    |          |      |
|           |              |             |            |       |    |         |              |                    |          |      |

Notes, Discrepancies, Resolutions: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



## Miscellaneous Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

| <b>Agency</b>            | <b>Web Site</b>                                                                                                                                                                                                                                                                                                                         | <b>Number</b> |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Alaska DEH               | <a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>                                                                                                                                                                                                                             | UST-040       |
| Arizona DHS              | <a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>                                                                                                                                                                                                                                         | AZ0339        |
| Arkansas - DEQ           | <a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>                                                                                                                                                                                                                           | 88-0637       |
| California DHS (ELAP)    | <a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>                                                                                                                                                                                                                   | 2795          |
| DOD ELAP                 | <a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>                                                                                                                                                                                             | L16-58-R4     |
| Florida DOH              | <a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>                                                                                                                                                                                                           | E87412        |
| Hawaii DOH               | <a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>                                                                                                                                                                                                                                                                       | -             |
| ISO 17025                | <a href="http://www.pjlabs.com/">http://www.pjlabs.com/</a>                                                                                                                                                                                                                                                                             | L16-57        |
| Louisiana DEQ            | <a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>                                                                                                                                                                                                             | 03016         |
| Maine DHS                | <a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>                                                                                                                                                                                                                                                                     | WA01276       |
| Minnesota DOH            | <a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>                                                                                                                                                                                                                                   | 053-999-457   |
| Nevada DEP               | <a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>                                                                                                                                                                                                                                             | WA01276       |
| New Jersey DEP           | <a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>                                                                                                                                                                                                                                     | WA005         |
| New York - DOH           | <a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>                                                                                                                                                                                                                                       | 12060         |
| North Carolina DEQ       | <a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a> | 605           |
| Oklahoma DEQ             | <a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>                                                                                                                                                                                                                               | 9801          |
| Oregon – DEQ (NELAP)     | <a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>                                                                                                         | WA100010      |
| South Carolina DHEC      | <a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>                                                                                                                                                                                         | 61002         |
| Texas CEQ                | <a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>                                                                                                                                                                                               | T104704427    |
| Washington DOE           | <a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>                                                                                                                                                                                             | C544          |
| Wyoming (EPA Region 8)   | <a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>                                                                                                                                                                     | -             |
| Kelso Laboratory Website | <a href="http://www.alsglobal.com">www.alsglobal.com</a>                                                                                                                                                                                                                                                                                | NA            |

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

## Acronyms

|            |                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------|
| ASTM       | American Society for Testing and Materials                                                                                               |
| A2LA       | American Association for Laboratory Accreditation                                                                                        |
| CARB       | California Air Resources Board                                                                                                           |
| CAS Number | Chemical Abstract Service registry Number                                                                                                |
| CFC        | Chlorofluorocarbon                                                                                                                       |
| CFU        | Colony-Forming Unit                                                                                                                      |
| DEC        | Department of Environmental Conservation                                                                                                 |
| DEQ        | Department of Environmental Quality                                                                                                      |
| DHS        | Department of Health Services                                                                                                            |
| DOE        | Department of Ecology                                                                                                                    |
| DOH        | Department of Health                                                                                                                     |
| EPA        | U. S. Environmental Protection Agency                                                                                                    |
| ELAP       | Environmental Laboratory Accreditation Program                                                                                           |
| GC         | Gas Chromatography                                                                                                                       |
| GC/MS      | Gas Chromatography/Mass Spectrometry                                                                                                     |
| LOD        | Limit of Detection                                                                                                                       |
| LOQ        | Limit of Quantitation                                                                                                                    |
| LUFT       | Leaking Underground Fuel Tank                                                                                                            |
| M          | Modified                                                                                                                                 |
| MCL        | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL        | Method Detection Limit                                                                                                                   |
| MPN        | Most Probable Number                                                                                                                     |
| MRL        | Method Reporting Limit                                                                                                                   |
| NA         | Not Applicable                                                                                                                           |
| NC         | Not Calculated                                                                                                                           |
| NCASI      | National Council of the Paper Industry for Air and Stream Improvement                                                                    |
| ND         | Not Detected                                                                                                                             |
| NIOSH      | National Institute for Occupational Safety and Health                                                                                    |
| PQL        | Practical Quantitation Limit                                                                                                             |
| RCRA       | Resource Conservation and Recovery Act                                                                                                   |
| SIM        | Selected Ion Monitoring                                                                                                                  |
| TPH        | Total Petroleum Hydrocarbons                                                                                                             |
| tr         | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.                           |

**ALS Group USA, Corp.**  
dba ALS Environmental

Analyst Summary report

**Client:** Woodland, City of  
**Project:** HSL Testing/Horseshoe Lake

**Service Request:** K2200132

**Sample Name:** Bouy 3  
**Lab Code:** K2200132-001  
**Sample Matrix:** Water

**Date Collected:** 01/5/22  
**Date Received:** 01/5/22

**Analysis Method**  
365.3

**Extracted/Digested By**  
BNETLING

**Analyzed By**  
BNETLING

**Sample Name:** Bouy 2  
**Lab Code:** K2200132-002  
**Sample Matrix:** Water

**Date Collected:** 01/5/22  
**Date Received:** 01/5/22

**Analysis Method**  
365.3

**Extracted/Digested By**  
BNETLING

**Analyzed By**  
BNETLING



# Sample Results

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



## General Chemistry

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Woodland, City of  
**Project:** HSL Testing/Horseshoe Lake  
**Sample Matrix:** Water  
**Sample Name:** Bouy 3  
**Lab Code:** K2200132-001

**Service Request:** K2200132  
**Date Collected:** 01/05/22 08:35  
**Date Received:** 01/05/22 13:00  
**Basis:** NA

General Chemistry Parameters

| Analyte Name      | Analysis Method | Result | Units | MRL   | Dil. | Date Analyzed  | Date Extracted | Q |
|-------------------|-----------------|--------|-------|-------|------|----------------|----------------|---|
| Phosphorus, Total | 365.3           | ND U   | mg/L  | 0.020 | 1    | 01/10/22 16:20 | 01/10/22       |   |

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Woodland, City of  
**Project:** HSL Testing/Horseshoe Lake  
**Sample Matrix:** Water  
**Sample Name:** Bouy 2  
**Lab Code:** K2200132-002

**Service Request:** K2200132  
**Date Collected:** 01/05/22 09:00  
**Date Received:** 01/05/22 13:00  
**Basis:** NA

General Chemistry Parameters

| Analyte Name      | Analysis Method | Result | Units | MRL   | Dil. | Date Analyzed  | Date Extracted | Q |
|-------------------|-----------------|--------|-------|-------|------|----------------|----------------|---|
| Phosphorus, Total | 365.3           | ND U   | mg/L  | 0.020 | 1    | 01/10/22 16:20 | 01/10/22       |   |





## QC Summary Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



## General Chemistry

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Woodland, City of  
**Project:** HSL Testing/Horseshoe Lake  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** K2200132-MB

**Service Request:** K2200132  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

General Chemistry Parameters

| Analyte Name      | Analysis Method | Result | Units | MRL   | Dil. | Date Analyzed  | Date Extracted | Q |
|-------------------|-----------------|--------|-------|-------|------|----------------|----------------|---|
| Phosphorus, Total | 365.3           | ND U   | mg/L  | 0.020 | 1    | 01/10/22 16:20 | 01/10/22       |   |