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April 24, 2025

**Analytical Report for Service Request No: K2503642**

Derrek Amburgey  
Woodland, City of  
P.O. Box 9  
Woodland, WA 98674

**RE: Quarterly NPDES Sampling / City of Woodland**

Dear Derrek,

Enclosed are the results of the sample(s) submitted to our laboratory April 09, 2025  
For your reference, these analyses have been assigned our service request number **K2503642**.

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 3363. You may also contact me via email at [karen.melerine@ALSGlobal.com](mailto:karen.melerine@ALSGlobal.com).

Respectfully submitted,

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

Karen Melerine  
Project Manager



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## 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.                           |

### 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.pjllabs.com/">http://www.pjllabs.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/bsdwlabservice.htm">http://ndep.nv.gov/bsdwlabservice.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.



## Case Narrative

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[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling  
**Sample Matrix:** Biosolids Solids, Water

**Service Request:** K2503642  
**Date Received:** 04/09/2025

### 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 II level requested by the client.

#### Sample Receipt:

Three biosolids solids, water samples were received for analysis at ALS Environmental on 04/09/2025. 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.

#### Semivola GC:

The reporting limits were elevated for all analytes in sample Sludge due to less than optimal sample mass extracted for analysis. The initial mass was preemptively reduced in order to protect equipment from anticipated non-target interferences.

The reporting limits were elevated for all analytes in sample Sludge due to less than optimal sample mass extracted for analysis. The initial mass was preemptively reduced in order to protect equipment from anticipated non-target interferences.

#### Metals:

No significant anomalies were noted with this analysis.

#### General Chemistry:

No significant anomalies were noted with this analysis.

#### Subcontracted Analytical Parameters:

Hexavalent Chromium by EPA 7196A:

This analysis was performed at Apex Laboratories in Portland, OR. The data for this analysis is included in the corresponding section of this report.

Chromium (VI) by EPA Method 218.6

Chromium (VI) analysis by EPA Method 218.6 was performed at ALS Middletown, PA Laboratory. The data for this analysis is included in the corresponding section of this report.

Approved by Karen Melorine

Date 04/24/2025



## Chain of Custody

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## Cooler Receipt and Preservation Form

PM KMClient City of Woodland Service Request K2503642  
Received: 4/19/25 Opened: 4/19/25 By: NP Unloaded: 4/19/25 By: NP

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? \_\_\_\_\_
- If present, were custody seals intact? Y N If present, were they signed and dated? Y N

| Temp Blank | Sample Temp | IR Gun      | Cooler #/COC ID / NA | Out of temp<br>Indicate with "X" | PM<br>Notified<br>If out of temp | Tracking Number | NA | Filed |
|------------|-------------|-------------|----------------------|----------------------------------|----------------------------------|-----------------|----|-------|
| <u>1.8</u> | <u>—</u>    | <u>1806</u> |                      |                                  |                                  |                 |    |       |
|            |             |             |                      |                                  |                                  |                 |    |       |
|            |             |             |                      |                                  |                                  |                 |    |       |
|            |             |             |                      |                                  |                                  |                 |    |       |
|            |             |             |                      |                                  |                                  |                 |    |       |

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; note 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, note the cooler # below and notify the PM.

NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

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

15. Were samples received within method specified time limit? If not, note the error below and notify the PM. NA Y N

16. Were 100mL sterile microbiology bottles filled exactly to the 100mL mark? NA Y N Underfilled Overfilled

| Sample ID on Bottle | Sample ID on COC | Identified by: |
|---------------------|------------------|----------------|
| <u>Quarterly</u>    | <u>IFluent</u>   | <u>ben</u>     |
| <u>↓</u>            | <u>EFluent</u>   | <u>↓</u>       |

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

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



## Total Solids

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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids  
**Analysis Method:** SM 2540 G  
**Prep Method:** None

**Service Request:** K2503642  
**Date Collected:** 04/9/25  
**Date Received:** 04/9/25  
**Units:** Percent  
**Basis:** As Received

Solids, Total

| Sample Name  | Lab Code     | Result | MRL | MDL | Dil. | Date Analyzed  | Q |
|--------------|--------------|--------|-----|-----|------|----------------|---|
| Sludge       | K2503642-003 | 1.5    | -   | -   | 1    | 04/09/25 15:50 |   |
| Method Blank | K2503642-MB1 | ND U   | -   | -   | 1    | 04/09/25 15:50 |   |



## General Chemistry

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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water  
**Analysis Method:** 1664B  
**Prep Method:** Method

**Service Request:** K2503642  
**Date Collected:** 04/9/25  
**Date Received:** 04/9/25  
**Units:** ug/L  
**Basis:** NA

Oil and Grease, Total (HEM)

| Sample Name    | Lab Code     | Result | MRL  | MDL  | Dil. | Date Analyzed  | Date Extracted | Q |
|----------------|--------------|--------|------|------|------|----------------|----------------|---|
| Influent       | K2503642-001 | 37600  | 4500 | 1400 | 1    | 04/15/25 15:14 | 4/11/25        |   |
| Final Effluent | K2503642-002 | 1600 J | 4700 | 1400 | 1    | 04/15/25 15:14 | 4/11/25        |   |
| Method Blank   | K2503642-MB2 | ND U   | 2800 | 1400 | 1    | 04/15/25 15:14 | 4/11/25        |   |

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

|                       |   |                         |          |
|-----------------------|---|-------------------------|----------|
| <b>Client:</b>        | Woodland, City of                         | <b>Service Request:</b> | K2503642 |
| <b>Project:</b>       | Quarterly NPDES Sampling/City of Woodland | <b>Date Analyzed:</b>   | 04/15/25 |
| <b>Sample Matrix:</b> | Water                                     | <b>Date Extracted:</b>  | 04/11/25 |

Duplicate Lab Control Sample Summary  
General Chemistry Parameters

|                         |        |                      |        |
|-------------------------|--------|----------------------|--------|
| <b>Analysis Method:</b> | 1664B  | <b>Units:</b>        | ug/L   |
| <b>Prep Method:</b>     | Method | <b>Basis:</b>        | NA     |
|                         |        | <b>Analysis Lot:</b> | 876080 |

Lab Control Sample  
K2503642-LCS3

Duplicate Lab Control Sample  
K2503642-DLCS3

| Analyte Name                | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | % Rec Limits | RPD | RPD Limit |
|-----------------------------|--------|--------------|-------|--------|--------------|-------|--------------|-----|-----------|
| Oil and Grease, Total (HEM) | 154000 | 160000       | 96    | 132000 | 160000       | 83    | 78-114       | 15  | 20        |

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water  
**Analysis Method:** 1664B  
**Prep Method:** Method

**Service Request:** K2503642  
**Date Collected:** 04/9/25  
**Date Received:** 04/9/25  
**Units:** ug/L  
**Basis:** NA

Oil and Grease, Nonpolar (SGT-HEM)

| Sample Name    | Lab Code     | Result | MRL  | MDL  | Dil. | Date Analyzed  | Date Extracted | Q |
|----------------|--------------|--------|------|------|------|----------------|----------------|---|
| Influent       | K2503642-001 | 3100 J | 4500 | 1400 | 1    | 04/17/25 18:32 | 4/16/25        |   |
| Final Effluent | K2503642-002 | ND U   | 4700 | 1400 | 1    | 04/17/25 18:32 | 4/16/25        |   |
| Method Blank   | K2503642-MB2 | 2000 J | 5000 | 1400 | 1    | 04/17/25 18:32 | 4/16/25        |   |



ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

|                       |   |                         |          |
|-----------------------|---|-------------------------|----------|
| <b>Client:</b>        | Woodland, City of                         | <b>Service Request:</b> | K2503642 |
| <b>Project:</b>       | Quarterly NPDES Sampling/City of Woodland | <b>Date Analyzed:</b>   | 04/17/25 |
| <b>Sample Matrix:</b> | Water                                     | <b>Date Extracted:</b>  | 04/16/25 |

Duplicate Lab Control Sample Summary  
General Chemistry Parameters

|                         |        |                      |        |
|-------------------------|--------|----------------------|--------|
| <b>Analysis Method:</b> | 1664B  | <b>Units:</b>        | ug/L   |
| <b>Prep Method:</b>     | Method | <b>Basis:</b>        | NA     |
|                         |        | <b>Analysis Lot:</b> | 876388 |

Lab Control Sample  
K2503642-LCS3

Duplicate Lab Control Sample  
K2503642-DLCS3

| Analyte Name                       | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | % Rec Limits | RPD | RPD Limit |
|------------------------------------|--------|--------------|-------|--------|--------------|-------|--------------|-----|-----------|
| Oil and Grease, Nonpolar (SGT-HEM) | 70100  | 80000        | 88    | 73000  | 80000        | 91    | 64-132       | 4   | 20        |

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dba ALS Environmental

Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids  
**Analysis Method:** 335.2M  
**Prep Method:** Method

**Service Request:** K2503642  
**Date Collected:** 04/9/25  
**Date Received:** 04/9/25  
**Units:** mg/Kg  
**Basis:** Dry

Cyanide, Total

| Sample Name  | Lab Code     | Result | MRL  | MDL   | Dil. | Date Analyzed  | Date Extracted | Q |
|--------------|--------------|--------|------|-------|------|----------------|----------------|---|
| Sludge       | K2503642-003 | ND U   | 6.5  | 4.0   | 1    | 04/14/25 16:25 | 4/14/25        |   |
| Method Blank | K2503642-MB1 | ND U   | 0.10 | 0.060 | 1    | 04/14/25 16:25 | 4/14/25        |   |

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

|                       |   |                         |          |
|-----------------------|---|-------------------------|----------|
| <b>Client:</b>        | Woodland, City of                         | <b>Service Request:</b> | K2503642 |
| <b>Project:</b>       | Quarterly NPDES Sampling/City of Woodland | <b>Date Analyzed:</b>   | 04/14/25 |
| <b>Sample Matrix:</b> | Biosolids Solids                          | <b>Date Extracted:</b>  | 04/14/25 |

Duplicate Lab Control Sample Summary  
General Chemistry Parameters

|                         |                       |                      |        |
|-------------------------|-----------------------|----------------------|--------|
| <b>Analysis Method:</b> | 335.2M                | <b>Units:</b>        | mg/Kg  |
| <b>Prep Method:</b>     | SM 4500-CN-C Modified | <b>Basis:</b>        | Dry    |
|                         |                       | <b>Analysis Lot:</b> | 876022 |

Lab Control Sample  
K2503642-LCS1

Duplicate Lab Control Sample  
K2503642-DLCS1

| Analyte Name   | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | % Rec Limits | RPD | RPD Limit |
|----------------|--------|--------------|-------|--------|--------------|-------|--------------|-----|-----------|
| Cyanide, Total | 1.34   | 1.49         | 90    | 1.49   | 1.49         | 100   | 14-132       | 10  | 20        |

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water  
**Analysis Method:** 335.4  
**Prep Method:** Method

**Service Request:** K2503642  
**Date Collected:** 04/9/25  
**Date Received:** 04/9/25  
**Units:** ug/L  
**Basis:** NA

Cyanide, Total

| Sample Name    | Lab Code     | Result | MRL | MDL | Dil. | Date Analyzed  | Date Extracted | Q |
|----------------|--------------|--------|-----|-----|------|----------------|----------------|---|
| Influent       | K2503642-001 | ND U   | 10  | 0.5 | 1    | 04/09/25 17:11 | 4/9/25         |   |
| Final Effluent | K2503642-002 | ND U   | 10  | 0.5 | 1    | 04/09/25 17:11 | 4/9/25         |   |
| Method Blank   | K2503642-MB2 | ND U   | 10  | 0.5 | 1    | 04/09/25 17:11 | 4/9/25         |   |

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## QA/QC Report

**Client:** Woodland, City of  
**Project** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water

**Service Request:** K2503642**Date Collected:** 04/09/25**Date Received:** 04/09/25**Date Analyzed:** 04/09/25

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** Final Effluent  
**Lab Code:** K2503642-002

**Units:** ug/L**Basis:** NA

| Analyte Name   | Analysis Method | MRL | MDL | Sample Result | Duplicate Sample<br>K2503642-002DUP | Average | RPD | RPD Limit |
|----------------|-----------------|-----|-----|---------------|-------------------------------------|---------|-----|-----------|
|                |                 |     |     |               | Result                              |         |     |           |
| Cyanide, Total | 335.4           | 10  | 0.5 | ND U          | ND U                                | NC      | NC  | 20        |

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ALS Group USA, Corp.  
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QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water

**Service Request:** K2503642  
**Date Collected:** 04/09/25  
**Date Received:** 04/09/25  
**Date Analyzed:** 04/9/25  
**Date Extracted:** 04/9/25

**Duplicate Matrix Spike Summary**  
**Cyanide, Total**

**Sample Name:** Final Effluent  
**Lab Code:** K2503642-002  
**Analysis Method:** 335.4  
**Prep Method:** Method

**Units:** ug/L  
**Basis:** NA

| Analyte Name   | Sample Result | Result | Matrix Spike<br>K2503642-002MS |       | Result | Duplicate Matrix Spike<br>K2503642-002DMS |       | % Rec Limits | RPD | RPD Limit |
|----------------|---------------|--------|--------------------------------|-------|--------|---|-------|--------------|-----|-----------|
|                |               |        | Spike Amount                   | % Rec |        | Spike Amount                              | % Rec |              |     |           |
| Cyanide, Total | ND U          | 100    | 100                            | 100   | 101    | 100                                       | 101   | 90-110       | 2   | 20        |

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ALS Group USA, Corp.  
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QA/QC Report

|                       |   |                         |          |
|-----------------------|---|-------------------------|----------|
| <b>Client:</b>        | Woodland, City of                         | <b>Service Request:</b> | K2503642 |
| <b>Project:</b>       | Quarterly NPDES Sampling/City of Woodland | <b>Date Analyzed:</b>   | 04/09/25 |
| <b>Sample Matrix:</b> | Water                                     | <b>Date Extracted:</b>  | 04/09/25 |

Duplicate Lab Control Sample Summary  
General Chemistry Parameters

|                         |        |                      |        |
|-------------------------|--------|----------------------|--------|
| <b>Analysis Method:</b> | 335.4  | <b>Units:</b>        | ug/L   |
| <b>Prep Method:</b>     | Method | <b>Basis:</b>        | NA     |
|                         |        | <b>Analysis Lot:</b> | 875558 |

Lab Control Sample  
K2503642-LCS3

Duplicate Lab Control Sample  
K2503642-DLCS3

| Analyte Name   | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | % Rec Limits | RPD | RPD Limit |
|----------------|--------|--------------|-------|--------|--------------|-------|--------------|-----|-----------|
| Cyanide, Total | 68.8   | 75           | 92    | 73.6   | 75           | 98    | 90-110       | 7   | 20        |

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Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water  
**Analysis Method:** 420.1  
**Prep Method:** Method

**Service Request:** K2503642  
**Date Collected:** 04/9/25  
**Date Received:** 04/9/25  
**Units:** ug/L  
**Basis:** NA

Phenolics, Total

| Sample Name    | Lab Code     | Result | MRL | MDL | Dil. | Date Analyzed  | Date Extracted | Q |
|----------------|--------------|--------|-----|-----|------|----------------|----------------|---|
| Influent       | K2503642-001 | 75     | 20  | 8   | 1    | 04/15/25 10:40 | 4/14/25        |   |
| Final Effluent | K2503642-002 | 13 J   | 20  | 8   | 1    | 04/15/25 10:40 | 4/14/25        |   |
| Method Blank   | K2503642-MB2 | ND U   | 20  | 8   | 1    | 04/15/25 10:40 | 4/14/25        |   |



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QA/QC Report

|                       |   |                         |          |
|-----------------------|---|-------------------------|----------|
| <b>Client:</b>        | Woodland, City of                         | <b>Service Request:</b> | K2503642 |
| <b>Project:</b>       | Quarterly NPDES Sampling/City of Woodland | <b>Date Analyzed:</b>   | 04/15/25 |
| <b>Sample Matrix:</b> | Water                                     | <b>Date Extracted:</b>  | 04/14/25 |

Lab Control Sample Summary  
Phenolics, Total

|                         |        |                      |        |
|-------------------------|--------|----------------------|--------|
| <b>Analysis Method:</b> | 420.1  | <b>Units:</b>        | ug/L   |
| <b>Prep Method:</b>     | Method | <b>Basis:</b>        | NA     |
|                         |        | <b>Analysis Lot:</b> | 875948 |

| Sample Name        | Lab Code      | Result | Spike Amount | % Rec | % Rec Limits |
|--------------------|---------------|--------|--------------|-------|--------------|
| Lab Control Sample | K2503642-LCS4 | 558    | 600          | 93    | 86-112       |

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Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids  
**Analysis Method:** 9065 Modified  
**Prep Method:** Method

**Service Request:** K2503642  
**Date Collected:** 04/9/25  
**Date Received:** 04/9/25  
**Units:** mg/Kg  
**Basis:** Dry

Phenolics, Total

| Sample Name  | Lab Code     | Result | MRL  | MDL  | Dil. | Date Analyzed  | Date Extracted | Q |
|--------------|--------------|--------|------|------|------|----------------|----------------|---|
| Sludge       | K2503642-003 | ND U   | 26   | 6    | 1    | 04/15/25 10:55 | 4/14/25        |   |
| Method Blank | K2503642-MB1 | ND U   | 0.40 | 0.08 | 1    | 04/15/25 10:55 | 4/14/25        |   |

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## QA/QC Report

**Client:** Woodland, City of  
**Project** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642**Date Collected:** 04/09/25**Date Received:** 04/09/25**Date Analyzed:** 04/15/25

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** Sludge  
**Lab Code:** K2503642-003

**Units:** mg/Kg**Basis:** Dry

|                  |                 |     |     |                  | Duplicate<br>Sample<br>K2503642-<br>003DUP |         |     |           |
|------------------|-----------------|-----|-----|------------------|--|---------|-----|-----------|
| Analyte Name     | Analysis Method | MRL | MDL | Sample<br>Result | Result                                     | Average | RPD | RPD Limit |
| Phenolics, Total | 9065 Modified   | 26  | 6   | ND U             | 7 J  | NC      | NC  | 20        |

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ALS Group USA, Corp.  
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QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642  
**Date Collected:** 04/09/25  
**Date Received:** 04/09/25  
**Date Analyzed:** 04/15/25  
**Date Extracted:** 04/14/25

**Duplicate Matrix Spike Summary**  
**Phenolics, Total**

**Sample Name:** Sludge  
**Lab Code:** K2503642-003  
**Analysis Method:** 9065 Modified  
**Prep Method:** Method

**Units:** mg/Kg  
**Basis:** Dry

| Analyte Name     | Sample Result | Result | Matrix Spike<br>K2503642-003MS |       | Result | Duplicate Matrix Spike<br>K2503642-003DMS |       | % Rec Limits | RPD | RPD Limit |
|------------------|---------------|--------|--------------------------------|-------|--------|---|-------|--------------|-----|-----------|
|                  |               |        | Spike Amount                   | % Rec |        | Spike Amount                              | % Rec |              |     |           |
| Phenolics, Total | ND U          | 469    | 525                            | 90    | 476    | 532                                       | 89    | 75-125       | 1   | 20        |

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QA/QC Report

|                       |   |                         |          |
|-----------------------|---|-------------------------|----------|
| <b>Client:</b>        | Woodland, City of                         | <b>Service Request:</b> | K2503642 |
| <b>Project:</b>       | Quarterly NPDES Sampling/City of Woodland | <b>Date Analyzed:</b>   | 04/15/25 |
| <b>Sample Matrix:</b> | Biosolids Solids                          | <b>Date Extracted:</b>  | 04/14/25 |

Lab Control Sample Summary  
Phenolics, Total

|                         |               |                      |        |
|-------------------------|---------------|----------------------|--------|
| <b>Analysis Method:</b> | 9065 Modified | <b>Units:</b>        | mg/Kg  |
| <b>Prep Method:</b>     | Method        | <b>Basis:</b>        | Dry    |
|                         |               | <b>Analysis Lot:</b> | 875949 |

| Sample Name        | Lab Code      | Result | Spike Amount | % Rec | % Rec Limits |
|--------------------|---------------|--------|--------------|-------|--------------|
| Lab Control Sample | K2503642-LCS2 | 11.2   | 12.0         | 94    | 85-115       |

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Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water  
**Analysis Method:** SM 4500-CN- E  
**Prep Method:** SM 4500-CN-I

**Service Request:** K2503642  
**Date Collected:** 04/9/25  
**Date Received:** 04/9/25  
**Units:** ug/L  
**Basis:** NA

Cyanide, Weak Acid Dissociable (WAD)

| Sample Name    | Lab Code     | Result | MRL | MDL | Dil. | Date Analyzed  | Date Extracted | Q |
|----------------|--------------|--------|-----|-----|------|----------------|----------------|---|
| Influent       | K2503642-001 | 0.9 J  | 10  | 0.8 | 1    | 04/10/25 05:45 | 4/10/25        |   |
| Final Effluent | K2503642-002 | 1 J    | 10  | 0.8 | 1    | 04/10/25 05:45 | 4/10/25        |   |
| Method Blank   | K2503642-MB2 | ND U   | 10  | 0.8 | 1    | 04/10/25 05:45 | 4/10/25        |   |

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QA/QC Report

|                       |   |                         |          |
|-----------------------|---|-------------------------|----------|
| <b>Client:</b>        | Woodland, City of                         | <b>Service Request:</b> | K2503642 |
| <b>Project:</b>       | Quarterly NPDES Sampling/City of Woodland | <b>Date Analyzed:</b>   | 04/10/25 |
| <b>Sample Matrix:</b> | Water                                     | <b>Date Extracted:</b>  | 04/10/25 |

Duplicate Lab Control Sample Summary  
General Chemistry Parameters

|                         |               |                      |        |
|-------------------------|---------------|----------------------|--------|
| <b>Analysis Method:</b> | SM 4500-CN- E | <b>Units:</b>        | ug/L   |
| <b>Prep Method:</b>     | SM 4500-CN-I  | <b>Basis:</b>        | NA     |
|                         |               | <b>Analysis Lot:</b> | 875749 |

Lab Control Sample  
K2503642-LCS3

Duplicate Lab Control Sample  
K2503642-DLCS3

| Analyte Name                         | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | % Rec Limits | RPD | RPD Limit |
|--------------------------------------|--------|--------------|-------|--------|--------------|-------|--------------|-----|-----------|
| Cyanide, Weak Acid Dissociable (WAD) | 76.0   | 75           | 101   | 79.0   | 75           | 105   | 70-141       | 4   | 20        |

ALS Group USA, Corp.  
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Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids  
**Analysis Method:** SM 4500-CN- E Modified  
**Prep Method:** SM 4500-CN-I Modified

**Service Request:** K2503642  
**Date Collected:** 04/9/25  
**Date Received:** 04/9/25  
**Units:** mg/Kg  
**Basis:** Dry

Cyanide, Weak Acid Dissociable (WAD)

| Sample Name  | Lab Code     | Result | MRL  | MDL   | Dil. | Date Analyzed  | Date Extracted | Q |
|--------------|--------------|--------|------|-------|------|----------------|----------------|---|
| Sludge       | K2503642-003 | 2.1 J  | 6.5  | 0.2   | 1    | 04/18/25 11:22 | 4/17/25        |   |
| Method Blank | K2503642-MB1 | ND U   | 0.10 | 0.003 | 1    | 04/18/25 11:22 | 4/17/25        |   |



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## QA/QC Report

**Client:** Woodland, City of  
**Project** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642**Date Collected:** 04/09/25**Date Received:** 04/09/25**Date Analyzed:** 04/18/25

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** Sludge  
**Lab Code:** K2503642-003

**Units:** mg/Kg**Basis:** Dry

|                                      |                        |            |            |                          |  | <b>Duplicate<br/>Sample<br/>K2503642-<br/>003DUP<br/>Result</b> |      |                |            |                      |  |
|--------------------------------------|------------------------|------------|------------|--------------------------|--|---|------|----------------|------------|----------------------|--|
| <b>Analyte Name</b>                  | <b>Analysis Method</b> | <b>MRL</b> | <b>MDL</b> | <b>Sample<br/>Result</b> |  |   |      | <b>Average</b> | <b>RPD</b> | <b>RPD<br/>Limit</b> |  |
| Cyanide, Weak Acid Dissociable (WAD) | SM 4500-CN- E Modified | 6.5        | 0.2        | 2.1 J                    |  |   | ND U | NC             | NC         | 20                   |  |

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ALS Group USA, Corp.  
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QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642  
**Date Collected:** 04/09/25  
**Date Received:** 04/09/25  
**Date Analyzed:** 04/18/25  
**Date Extracted:** 04/17/25

**Duplicate Matrix Spike Summary**  
**Cyanide, Weak Acid Dissociable (WAD)**

**Sample Name:** Sludge  
**Lab Code:** K2503642-003  
**Analysis Method:** SM 4500-CN- E Modified  
**Prep Method:** SM 4500-CN-I Modified

**Units:** mg/Kg  
**Basis:** Dry

| Analyte Name                         | Sample Result | Matrix Spike<br>K2503642-003MS |              |       | Duplicate Matrix Spike<br>K2503642-003DMS |              |       | % Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|--------------------------------|--------------|-------|---|--------------|-------|--------------|-----|-----------|
|                                      |               | Result                         | Spike Amount | % Rec | Result                                    | Spike Amount | % Rec |              |     |           |
| Cyanide, Weak Acid Dissociable (WAD) | 2.1 J         | 91.9                           | 131          | 69    | 98.2                                      | 132          | 73    | 61-141       | 6   | 20        |

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ALS Group USA, Corp.  
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QA/QC Report

|                       |   |                         |          |
|-----------------------|---|-------------------------|----------|
| <b>Client:</b>        | Woodland, City of                         | <b>Service Request:</b> | K2503642 |
| <b>Project:</b>       | Quarterly NPDES Sampling/City of Woodland | <b>Date Analyzed:</b>   | 04/18/25 |
| <b>Sample Matrix:</b> | Biosolids Solids                          | <b>Date Extracted:</b>  | 04/17/25 |

Duplicate Lab Control Sample Summary  
General Chemistry Parameters

|                         |                        |                      |        |
|-------------------------|------------------------|----------------------|--------|
| <b>Analysis Method:</b> | SM 4500-CN- E Modified | <b>Units:</b>        | mg/Kg  |
| <b>Prep Method:</b>     | SM 4500-CN-I Modified  | <b>Basis:</b>        | Dry    |
|                         |                        | <b>Analysis Lot:</b> | 876491 |

| Lab Control Sample<br>K2503642-LCS1  |        |              |       | Duplicate Lab Control Sample<br>K2503642-DLCS1 |              |       |              |     |           |
|--------------------------------------|--------|--------------|-------|--|--------------|-------|--------------|-----|-----------|
| Analyte Name                         | Result | Spike Amount | % Rec | Result   | Spike Amount | % Rec | % Rec Limits | RPD | RPD Limit |
| Cyanide, Weak Acid Dissociable (WAD) | 1.59   | 1.50         | 106   | 1.51   | 1.50         | 101   | 63-152       | 5   | 20        |



# Metals

**ALS Environmental—Kelso Laboratory**  
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**ALS Group USA, Corp.**

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## Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water

**Service Request:** K2503642**Date Collected:** 04/09/25**Date Received:** 04/09/25

## Mercury, Total

**Prep Method:** METHOD**Analysis Method:** 1631E**Test Notes:****Units:** ug/L (ppb)**Basis:** NA

| Sample Name    | Lab Code     | MRL    | MDL     | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result  | Result<br>Notes |
|----------------|--------------|--------|---------|--------------------|-------------------|------------------|---------|-----------------|
| Influent       | K2503642-001 | 0.0005 | 0.00006 | 1                  | 04/11/25          | 04/14/25         | 0.0178  |                 |
| Final Effluent | K2503642-002 | 0.0005 | 0.00006 | 1                  | 04/11/25          | 04/14/25         | 0.00265 |                 |
| Method Blank 1 | K2503642-MB1 | 0.0005 | 0.00006 | 1                  | 04/11/25          | 04/14/25         | 0.00016 | J               |
| Method Blank 2 | K2503642-MB2 | 0.0005 | 0.00006 | 1                  | 04/11/25          | 04/14/25         | 0.00031 | J               |
| Method Blank 3 | K2503642-MB3 | 0.0005 | 0.00006 | 1                  | 04/11/25          | 04/14/25         | 0.00019 | J               |

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QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**LCS Matrix:** Water

**Service Request:** K2503642  
**Date Collected:** NA  
**Date Received:** NA  
**Date Extracted:** NA  
**Date Analyzed:** 04/14/25

Ongoing Precision and Recovery (OPR) Sample Summary  
Total Metals

**Sample Name:** Ongoing Precision and Recovery (Initial) **Units:** ug/L (ppb)  
**Basis:** NA

**Test Notes:**

| Analyte | Prep Method | Analysis Method | True Value | Result  | Percent Recovery | ALS Percent Recovery | Result Notes |
|---------|-------------|-----------------|------------|---------|------------------|----------------------|--------------|
|         |             |                 |            |         |                  | Acceptance Limits    |              |
| Mercury | METHOD      | 1631E           | 0.00500    | 0.00513 | 103              | 77-123               |              |

**ALS Group USA, Corp.**  
**dba ALS Environmental**  
**QA/QC Report**

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**LCS Matrix:** Water

**Service Request:** K2503642  
**Date Collected:** NA  
**Date Received:** NA  
**Date Extracted:** NA  
**Date Analyzed:** 04/14/25

Ongoing Precision and Recovery (OPR) Sample Summary  
Total Metals

**Sample Name:** Ongoing Precision and Recovery (Final) **Units:** ug/L (ppb)  
**Basis:** NA

**Test Notes:**

| Analyte | Prep Method | Analysis Method | True Value | Result  | Percent Recovery | ALS Percent Recovery | Result Notes |
|---------|-------------|-----------------|------------|---------|------------------|----------------------|--------------|
|         |             |                 |            |         |                  | Acceptance Limits    |              |
| Mercury | METHOD      | 1631E           | 0.00500    | 0.00516 | 103              | 77-123               |              |

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**LCS Matrix:** Water

**Service Request:** K2503642  
**Date Collected:** NA  
**Date Received:** NA  
**Date Extracted:** 4/11/2025  
**Date Analyzed:** 04/14/25

Quality Control Sample (QCS) Summary  
Total Metals

Sample Name: Quality Control Sample

Units: ug/L (ppb)  
Basis: NA

Test Notes:

| Analyte | Prep Method | Analysis Method | True Value | Result  | Percent Recovery | ALS                                | Result Notes |
|---------|-------------|-----------------|------------|---------|------------------|------------------------------------|--------------|
|         |             |                 |            |         |                  | Percent Recovery Acceptance Limits |              |
| Mercury | METHOD      | 1631E           | 0.00500    | 0.00415 | 83               | 77-123                             |              |



**ALS Group USA, Corp.**

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## Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids solids

**Service Request:** K2503642**Date Collected:** 04/09/25**Date Received:** 04/09/25

## Mercury, Total

Prep Method: METHOD

Analysis Method: 1631E

Test Notes:

Units: mg/kg

Basis: Dry

| Sample Name    | Lab Code     | MRL   | MDL    | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result | Result<br>Notes |
|----------------|--------------|-------|--------|--------------------|-------------------|------------------|--------|-----------------|
| Sludge         | K2503642-003 | 0.018 | 0.0035 | 1                  | 04/11/25          | 04/14/25         | 0.262  |                 |
| Method Blank 1 | K2503642-MB1 | 0.001 | 0.0002 | 1                  | 04/11/25          | 04/14/25         | ND     |                 |
| Method Blank 2 | K2503642-MB2 | 0.001 | 0.0002 | 1                  | 04/11/25          | 04/14/25         | ND     |                 |
| Method Blank 3 | K2503642-MB3 | 0.001 | 0.0002 | 1                  | 04/11/25          | 04/14/25         | ND     |                 |

ALS Group USA, Corp.  
dba ALS Environmental  
QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**LCS Matrix:** Water

**Service Request:** K2503642  
**Date Collected:** NA  
**Date Received:** NA  
**Date Extracted:** 04/11/25  
**Date Analyzed:** 04/14/25

Ongoing Precision and Recovery (OPR) Sample Summary  
Total Metals

**Sample Name:** Ongoing Precision and Recovery (Initial) **Units:** mg/kg  
**Basis:** NA

**Test Notes:**

| Analyte | Prep Method | Analysis Method | True Value | Result  | Percent Recovery | ALS Percent Recovery | Result Notes |
|---------|-------------|-----------------|------------|---------|------------------|----------------------|--------------|
|         |             |                 |            |         |                  | Acceptance Limits    |              |
| Mercury | Method      | 1631E           | 0.005      | 0.00524 | 105              | 70-130               |              |

ALS Group USA, Corp.  
dba ALS Environmental  
QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**LCS Matrix:** Water

**Service Request:** K2503642  
**Date Collected:** NA  
**Date Received:** NA  
**Date Extracted:** 04/11/25  
**Date Analyzed:** 04/14/25

Ongoing Precision and Recovery (OPR) Sample Summary  
Total Metals

**Sample Name:** Ongoing Precision and Recovery (Final)      **Units:** mg/kg  
**Basis:** NA

**Test Notes:**

| Analyte | Prep Method | Analysis Method | True Value | Result  | Percent Recovery | ALS Percent Recovery | Result Notes |
|---------|-------------|-----------------|------------|---------|------------------|----------------------|--------------|
|         |             |                 |            |         |                  | Acceptance Limits    |              |
| Mercury | Method      | 1631E           | 0.005      | 0.00512 | 102              | 70-130               |              |

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**LCS Matrix:** Biosolids solids

**Service Request:** K2503642  
**Date Collected:** NA  
**Date Received:** NA  
**Date Extracted:** 04/11/25  
**Date Analyzed:** 04/14/25

Quality Control Sample (QCS) Summary  
Total Metals

Sample Name: Quality Control Sample

Units: mg/kg  
Basis: NA

Test Notes:

| Analyte | Prep Method | Analysis Method | True Value | Result  | Percent Recovery | ALS Percent Recovery | Result Notes |
|---------|-------------|-----------------|------------|---------|------------------|----------------------|--------------|
|         |             |                 |            |         |                  | Acceptance Limits    |              |
| Mercury | Method      | 1631E           | 0.005      | 0.00434 | 87               | 70-130               |              |

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water  
**Sample Name:** Influent  
**Lab Code:** K2503642-001

**Service Request:** K2503642  
**Date Collected:** 04/09/25 08:00  
**Date Received:** 04/09/25 10:00

**Basis:** NA

**Total Metals**

| <b>Analyte Name</b> | <b>Analysis Method</b> | <b>Result</b> | <b>Units</b> | <b>MRL</b> | <b>MDL</b> | <b>Dil.</b> | <b>Date Analyzed</b> | <b>Date Extracted</b> | <b>Q</b> |
|---------------------|------------------------|---------------|--------------|------------|------------|-------------|----------------------|-----------------------|----------|
| Aluminum            | 200.8                  | <b>307</b>    | ug/L         | 4.0        | 1.4        | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Antimony            | 200.8                  | <b>0.800</b>  | ug/L         | 0.050      | 0.022      | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Arsenic             | 200.8                  | <b>0.74</b>   | ug/L         | 0.50       | 0.06       | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Barium              | 200.8                  | <b>17.1</b>   | ug/L         | 0.050      | 0.024      | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Beryllium           | 200.8                  | ND U          | ug/L         | 0.020      | 0.008      | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Boron               | 200.8                  | <b>152</b>    | ug/L         | 2.0        | 0.4        | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Cadmium             | 200.8                  | <b>0.106</b>  | ug/L         | 0.020      | 0.006      | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Chromium            | 200.8                  | <b>1.34</b>   | ug/L         | 0.20       | 0.06       | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Cobalt              | 200.8                  | <b>0.475</b>  | ug/L         | 0.040      | 0.013      | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Copper              | 200.8                  | <b>58.5</b>   | ug/L         | 0.10       | 0.03       | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Iron                | 200.8                  | <b>575</b>    | ug/L         | 2.0        | 0.4        | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Lead                | 200.8                  | <b>1.23</b>   | ug/L         | 0.020      | 0.007      | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Magnesium           | 200.8                  | <b>8500</b>   | ug/L         | 10         | 2          | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Manganese           | 200.8                  | <b>91.9</b>   | ug/L         | 0.20       | 0.09       | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Molybdenum          | 200.8                  | <b>1.94</b>   | ug/L         | 0.10       | 0.03       | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Nickel              | 200.8                  | <b>2.94</b>   | ug/L         | 0.20       | 0.04       | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Selenium            | 200.8                  | <b>0.5 J</b>  | ug/L         | 1.0        | 0.2        | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Silver              | 200.8                  | <b>0.151</b>  | ug/L         | 0.020      | 0.006      | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Thallium            | 200.8                  | <b>0.025</b>  | ug/L         | 0.020      | 0.009      | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Tin                 | 200.8                  | <b>19.3</b>   | ug/L         | 0.10       | 0.03       | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Titanium            | 200.8                  | <b>5.9</b>    | ug/L         | 4.0        | 0.7        | 1           | 04/14/25 15:08       | 04/11/25              |          |
| Zinc                | 200.8                  | <b>139</b>    | ug/L         | 2.0        | 0.3        | 1           | 04/14/25 15:08       | 04/11/25              |          |

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water  
**Sample Name:** Final Effluent  
**Lab Code:** K2503642-002

**Service Request:** K2503642  
**Date Collected:** 04/09/25 08:00  
**Date Received:** 04/09/25 10:00

**Basis:** NA

**Total Metals**

| <b>Analyte Name</b> | <b>Analysis Method</b> | <b>Result</b>  | <b>Units</b> | <b>MRL</b> | <b>MDL</b> | <b>Dil.</b> | <b>Date Analyzed</b> | <b>Date Extracted</b> | <b>Q</b> |
|---------------------|------------------------|----------------|--------------|------------|------------|-------------|----------------------|-----------------------|----------|
| Aluminum            | 200.8                  | <b>8.9</b>     | ug/L         | 4.0        | 1.4        | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Antimony            | 200.8                  | <b>0.520</b>   | ug/L         | 0.050      | 0.022      | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Arsenic             | 200.8                  | <b>0.33 J</b>  | ug/L         | 0.50       | 0.06       | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Barium              | 200.8                  | <b>3.68</b>    | ug/L         | 0.050      | 0.024      | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Beryllium           | 200.8                  | ND U           | ug/L         | 0.020      | 0.008      | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Boron               | 200.8                  | <b>125</b>     | ug/L         | 2.0        | 0.4        | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Cadmium             | 200.8                  | <b>0.016 J</b> | ug/L         | 0.020      | 0.006      | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Chromium            | 200.8                  | <b>0.33</b>    | ug/L         | 0.20       | 0.06       | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Cobalt              | 200.8                  | <b>0.161</b>   | ug/L         | 0.040      | 0.013      | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Copper              | 200.8                  | <b>6.61</b>    | ug/L         | 0.10       | 0.03       | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Iron                | 200.8                  | <b>19.7</b>    | ug/L         | 2.0        | 0.4        | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Lead                | 200.8                  | <b>0.111</b>   | ug/L         | 0.020      | 0.007      | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Magnesium           | 200.8                  | <b>7020</b>    | ug/L         | 10         | 2          | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Manganese           | 200.8                  | <b>13.5</b>    | ug/L         | 0.20       | 0.09       | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Molybdenum          | 200.8                  | <b>3.28</b>    | ug/L         | 0.10       | 0.03       | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Nickel              | 200.8                  | <b>1.01</b>    | ug/L         | 0.20       | 0.04       | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Selenium            | 200.8                  | ND U           | ug/L         | 1.0        | 0.2        | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Silver              | 200.8                  | ND U           | ug/L         | 0.020      | 0.006      | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Thallium            | 200.8                  | <b>0.014 J</b> | ug/L         | 0.020      | 0.009      | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Tin                 | 200.8                  | <b>11.5</b>    | ug/L         | 0.10       | 0.03       | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Titanium            | 200.8                  | <b>2.2 J</b>   | ug/L         | 4.0        | 0.7        | 1           | 04/14/25 14:53       | 04/11/25              |          |
| Zinc                | 200.8                  | <b>64.8</b>    | ug/L         | 2.0        | 0.3        | 1           | 04/14/25 14:53       | 04/11/25              |          |

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Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids  
**Sample Name:** Sludge  
**Lab Code:** K2503642-003

**Service Request:** K2503642  
**Date Collected:** 04/09/25 08:00  
**Date Received:** 04/09/25 10:00

**Basis:** Dry

**Total Metals**

| <b>Analyte Name</b> | <b>Analysis Method</b> | <b>Result</b> | <b>Units</b> | <b>MRL</b> | <b>MDL</b> | <b>Dil.</b> | <b>Date Analyzed</b> | <b>Date Extracted</b> | <b>Q</b> |
|---------------------|------------------------|---------------|--------------|------------|------------|-------------|----------------------|-----------------------|----------|
| Aluminum            | 6020A                  | <b>1930</b>   | mg/Kg        | 88         | 24         | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Antimony            | 6020A                  | <b>1.5 J</b>  | mg/Kg        | 2.2        | 1.1        | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Arsenic             | 6020A                  | <b>3 J</b>    | mg/Kg        | 11         | 1          | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Barium              | 6020A                  | <b>73.0</b>   | mg/Kg        | 4.4        | 1.2        | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Beryllium           | 6020A                  | ND U          | mg/Kg        | 0.88       | 0.15       | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Boron               | 6020A                  | <b>101</b>    | mg/Kg        | 44         | 11         | 10          | 04/14/25 13:57       | 04/10/25              |          |
| Cadmium             | 6020A                  | <b>0.75 J</b> | mg/Kg        | 0.88       | 0.14       | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Chromium            | 6020A                  | <b>21.1</b>   | mg/Kg        | 8.8        | 1.5        | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Cobalt              | 6020A                  | <b>2.94</b>   | mg/Kg        | 0.88       | 0.20       | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Copper              | 6020A                  | <b>338</b>    | mg/Kg        | 8.8        | 2.9        | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Iron                | 6020A                  | <b>5030</b>   | mg/Kg        | 180        | 70         | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Lead                | 6020A                  | <b>8.7</b>    | mg/Kg        | 2.2        | 0.4        | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Magnesium           | 6020A                  | <b>5640</b>   | mg/Kg        | 180        | 30         | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Manganese           | 6020A                  | <b>255</b>    | mg/Kg        | 2.2        | 1.0        | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Molybdenum          | 6020A                  | <b>10.3</b>   | mg/Kg        | 2.2        | 0.6        | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Nickel              | 6020A                  | <b>19.5</b>   | mg/Kg        | 8.8        | 1.8        | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Selenium            | 6020A                  | <b>7 J</b>    | mg/Kg        | 22         | 2          | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Silver              | 6020A                  | <b>0.91</b>   | mg/Kg        | 0.88       | 0.16       | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Thallium            | 6020A                  | ND U          | mg/Kg        | 0.88       | 0.29       | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Tin                 | 6020A                  | <b>25.2</b>   | mg/Kg        | 4.4        | 1.1        | 10          | 04/14/25 13:57       | 04/10/25              |          |
| Titanium            | 6020A                  | <b>140 J</b>  | mg/Kg        | 180        | 40         | 10          | 04/14/25 12:21       | 04/10/25              |          |
| Zinc                | 6020A                  | <b>649</b>    | mg/Kg        | 22         | 4          | 10          | 04/14/25 12:21       | 04/10/25              |          |

ALS Group USA, Corp.  
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Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water  
  
**Sample Name:** Method Blank  
**Lab Code:** KQ2505916-01

**Service Request:** K2503642  
**Date Collected:** NA  
**Date Received:** NA  
  
**Basis:** NA

Total Metals

| Analyte Name | Analysis Method | Result | Units | MRL   | MDL   | Dil. | Date Analyzed  | Date Extracted | Q |
|--------------|-----------------|--------|-------|-------|-------|------|----------------|----------------|---|
| Aluminum     | 200.8           | ND U   | ug/L  | 4.0   | 1.4   | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Antimony     | 200.8           | ND U   | ug/L  | 0.050 | 0.022 | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Arsenic      | 200.8           | ND U   | ug/L  | 0.50  | 0.06  | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Barium       | 200.8           | ND U   | ug/L  | 0.050 | 0.024 | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Beryllium    | 200.8           | ND U   | ug/L  | 0.020 | 0.008 | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Boron        | 200.8           | ND U   | ug/L  | 2.0   | 0.4   | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Cadmium      | 200.8           | ND U   | ug/L  | 0.020 | 0.006 | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Chromium     | 200.8           | ND U   | ug/L  | 0.20  | 0.06  | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Cobalt       | 200.8           | ND U   | ug/L  | 0.040 | 0.013 | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Copper       | 200.8           | ND U   | ug/L  | 0.10  | 0.03  | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Iron         | 200.8           | ND U   | ug/L  | 2.0   | 0.4   | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Lead         | 200.8           | ND U   | ug/L  | 0.020 | 0.007 | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Magnesium    | 200.8           | ND U   | ug/L  | 10    | 2     | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Manganese    | 200.8           | ND U   | ug/L  | 0.20  | 0.09  | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Molybdenum   | 200.8           | ND U   | ug/L  | 0.10  | 0.03  | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Nickel       | 200.8           | ND U   | ug/L  | 0.20  | 0.04  | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Selenium     | 200.8           | ND U   | ug/L  | 1.0   | 0.2   | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Silver       | 200.8           | ND U   | ug/L  | 0.020 | 0.006 | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Thallium     | 200.8           | ND U   | ug/L  | 0.020 | 0.009 | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Tin          | 200.8           | 0.03 J | ug/L  | 0.10  | 0.03  | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Titanium     | 200.8           | ND U   | ug/L  | 4.0   | 0.7   | 1    | 04/14/25 14:49 | 04/11/25       |   |
| Zinc         | 200.8           | ND U   | ug/L  | 2.0   | 0.3   | 1    | 04/14/25 14:49 | 04/11/25       |   |



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids  
**Sample Name:** Method Blank  
**Lab Code:** KQ2505871-03

**Service Request:** K2503642  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** Dry

**Total Metals**

| <b>Analyte Name</b> | <b>Analysis Method</b> | <b>Result</b> | <b>Units</b> | <b>MRL</b> | <b>MDL</b> | <b>Dil.</b> | <b>Date Analyzed</b> | <b>Date Extracted</b> | <b>Q</b> |
|---------------------|------------------------|---------------|--------------|------------|------------|-------------|----------------------|-----------------------|----------|
| Aluminum            | 6020A                  | <b>1.4 J</b>  | mg/Kg        | 4.0        | 1.1        | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Antimony            | 6020A                  | ND U          | mg/Kg        | 0.10       | 0.05       | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Arsenic             | 6020A                  | ND U          | mg/Kg        | 0.50       | 0.05       | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Barium              | 6020A                  | ND U          | mg/Kg        | 0.20       | 0.06       | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Beryllium           | 6020A                  | ND U          | mg/Kg        | 0.040      | 0.007      | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Boron               | 6020A                  | ND U          | mg/Kg        | 2.0        | 0.5        | 10          | 04/14/25 13:53       | 04/10/25              |          |
| Cadmium             | 6020A                  | ND U          | mg/Kg        | 0.040      | 0.007      | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Chromium            | 6020A                  | ND U          | mg/Kg        | 0.40       | 0.07       | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Cobalt              | 6020A                  | ND U          | mg/Kg        | 0.040      | 0.009      | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Copper              | 6020A                  | ND U          | mg/Kg        | 0.40       | 0.13       | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Iron                | 6020A                  | ND U          | mg/Kg        | 8.0        | 3.1        | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Lead                | 6020A                  | <b>0.03 J</b> | mg/Kg        | 0.10       | 0.02       | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Magnesium           | 6020A                  | ND U          | mg/Kg        | 8.0        | 1.3        | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Manganese           | 6020A                  | ND U          | mg/Kg        | 0.10       | 0.05       | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Molybdenum          | 6020A                  | <b>0.06 J</b> | mg/Kg        | 0.10       | 0.03       | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Nickel              | 6020A                  | ND U          | mg/Kg        | 0.40       | 0.08       | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Selenium            | 6020A                  | ND U          | mg/Kg        | 1.0        | 0.1        | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Silver              | 6020A                  | ND U          | mg/Kg        | 0.040      | 0.007      | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Thallium            | 6020A                  | ND U          | mg/Kg        | 0.040      | 0.013      | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Tin                 | 6020A                  | ND U          | mg/Kg        | 0.20       | 0.05       | 10          | 04/14/25 13:53       | 04/10/25              |          |
| Titanium            | 6020A                  | ND U          | mg/Kg        | 8.0        | 1.6        | 10          | 04/14/25 12:15       | 04/10/25              |          |
| Zinc                | 6020A                  | <b>0.2 J</b>  | mg/Kg        | 1.0        | 0.2        | 10          | 04/14/25 12:15       | 04/10/25              |          |

**ALS Group USA, Corp.**

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QA/QC Report

**Client:** Woodland, City of  
**Project** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water

**Service Request:** K2503642

**Date Collected:** 04/09/25

**Date Received:** 04/09/25

**Date Analyzed:** 04/14/25

**Replicate Sample Summary**

**Total Metals**

**Sample Name:** Final Effluent  
**Lab Code:** K2503642-002

**Units:** ug/L

**Basis:** NA

| Analyte Name | Analysis Method | MRL   | MDL   | Sample Result | Duplicate Sample<br>KQ2505916-03<br>Result | Average | RPD  | RPD Limit |
|--------------|-----------------|-------|-------|---------------|--|---------|------|-----------|
|              |                 |       |       |               |  |         |      |           |
| Aluminum     | 200.8           | 4.0   | 1.4   | 8.9           | 8.6  | 8.8     | 3    | 20        |
| Antimony     | 200.8           | 0.050 | 0.022 | 0.520         | 0.522                                      | 0.521   | <1   | 20        |
| Arsenic      | 200.8           | 0.50  | 0.06  | 0.33 J        | 0.32 J                                     | 0.33    | 3    | 20        |
| Barium       | 200.8           | 0.050 | 0.024 | 3.68          | 3.57                                       | 3.63    | 3    | 20        |
| Beryllium    | 200.8           | 0.020 | 0.008 | ND U          | ND U                                       | ND      | -    | 20        |
| Boron        | 200.8           | 2.0   | 0.4   | 125           | 125  | 125     | <1   | 20        |
| Cadmium      | 200.8           | 0.020 | 0.006 | 0.016 J       | 0.012 J                                    | 0.014   | 29 # | 20        |
| Chromium     | 200.8           | 0.20  | 0.06  | 0.33          | 0.33                                       | 0.33    | <1   | 20        |
| Cobalt       | 200.8           | 0.040 | 0.013 | 0.161         | 0.157                                      | 0.159   | 3    | 20        |
| Copper       | 200.8           | 0.10  | 0.03  | 6.61          | 6.80                                       | 6.71    | 3    | 20        |
| Iron         | 200.8           | 2.0   | 0.4   | 19.7          | 19.7                                       | 19.7    | <1   | 20        |
| Lead         | 200.8           | 0.020 | 0.007 | 0.111         | 0.111                                      | 0.111   | <1   | 20        |
| Magnesium    | 200.8           | 10    | 2     | 7020          | 6880                                       | 6950    | 2    | 20        |
| Manganese    | 200.8           | 0.20  | 0.09  | 13.5          | 14.3                                       | 13.9    | 6    | 20        |
| Molybdenum   | 200.8           | 0.10  | 0.03  | 3.28          | 3.34                                       | 3.31    | 2    | 20        |
| Nickel       | 200.8           | 0.20  | 0.04  | 1.01          | 1.05                                       | 1.03    | 4    | 20        |
| Selenium     | 200.8           | 1.0   | 0.2   | ND U          | ND U                                       | ND      | -    | 20        |
| Silver       | 200.8           | 0.020 | 0.006 | ND U          | ND U                                       | ND      | -    | 20        |
| Thallium     | 200.8           | 0.020 | 0.009 | 0.014 J       | ND U                                       | NC      | NC   | 20        |
| Tin          | 200.8           | 0.10  | 0.03  | 11.5          | 11.5                                       | 11.5    | <1   | 20        |
| Titanium     | 200.8           | 4.0   | 0.7   | 2.2 J         | ND U                                       | NC      | NC   | 20        |
| Zinc         | 200.8           | 2.0   | 0.3   | 64.8          | 65.9                                       | 65.4    | 2    | 20        |

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QA/QC Report

**Client:** Woodland, City of  
**Project** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642

**Date Collected:** 04/09/25

**Date Received:** 04/09/25

**Date Analyzed:** 04/14/25

**Replicate Sample Summary**

**Total Metals**

**Sample Name:** Sludge  
**Lab Code:** K2503642-003

**Units:** mg/Kg

**Basis:** Dry

| Analyte Name | Analysis Method | MRL  | MDL  | Sample Result | Duplicate Sample<br>KQ2505871-01<br>Result | Average | RPD  | RPD Limit |
|--------------|-----------------|------|------|---------------|--|---------|------|-----------|
|              |                 |      |      |               |  |         |      |           |
| Aluminum     | 6020A           | 88   | 24   | 1930          | 1900                                       | 1920    | 1    | 20        |
| Antimony     | 6020A           | 2.2  | 1.1  | 1.5 J         | 1.2 J                                      | 1.4     | 19   | 20        |
| Arsenic      | 6020A           | 11   | 1    | 3 J           | 3 J  | 3       | 22 # | 20        |
| Barium       | 6020A           | 4.4  | 1.2  | 73.0          | 78.4                                       | 75.7    | 8    | 20        |
| Beryllium    | 6020A           | 0.88 | 0.15 | ND U          | ND U                                       | ND      | -    | 20        |
| Boron        | 6020A           | 44   | 11   | 101           | 96   | 99      | 6    | 20        |
| Cadmium      | 6020A           | 0.88 | 0.14 | 0.75 J        | 0.70 J                                     | 0.73    | <1   | 20        |
| Chromium     | 6020A           | 8.8  | 1.5  | 21.1          | 21.9                                       | 21.5    | 3    | 20        |
| Cobalt       | 6020A           | 0.88 | 0.20 | 2.94          | 2.73                                       | 2.84    | 7    | 20        |
| Copper       | 6020A           | 8.8  | 2.9  | 338           | 343  | 341     | 1    | 20        |
| Iron         | 6020A           | 180  | 70   | 5030          | 5140                                       | 5090    | 2    | 20        |
| Lead         | 6020A           | 2.2  | 0.4  | 8.7           | 8.5  | 8.6     | 3    | 20        |
| Magnesium    | 6020A           | 180  | 30   | 5640          | 5650                                       | 5650    | <1   | 20        |
| Manganese    | 6020A           | 2.2  | 1.0  | 255           | 258  | 257     | 1    | 20        |
| Molybdenum   | 6020A           | 2.2  | 0.6  | 10.3          | 9.4  | 9.9     | 9    | 20        |
| Nickel       | 6020A           | 8.8  | 1.8  | 19.5          | 20.3                                       | 19.9    | 3    | 20        |
| Selenium     | 6020A           | 22   | 2    | 7 J           | 7 J  | 7       | 10   | 20        |
| Silver       | 6020A           | 0.88 | 0.16 | 0.91          | 1.23                                       | 1.07    | 30 # | 20        |
| Thallium     | 6020A           | 0.88 | 0.29 | ND U          | ND U                                       | ND      | -    | 20        |
| Tin          | 6020A           | 4.4  | 1.1  | 25.2          | 25.4                                       | 25.3    | 1    | 20        |
| Titanium     | 6020A           | 180  | 40   | 140 J         | 140 J                                      | 140     | <1   | 20        |
| Zinc         | 6020A           | 22   | 4    | 649           | 662  | 656     | 2    | 20        |

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QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water

**Service Request:** K2503642  
**Date Collected:** 04/09/25  
**Date Received:** 04/09/25  
**Date Analyzed:** 04/14/25  
**Date Extracted:** 04/11/25

**Matrix Spike Summary**  
**Total Metals**

**Sample Name:** Final Effluent  
**Lab Code:** K2503642-002  
**Analysis Method:** 200.8  
**Prep Method:** EPA CLP ILM04.0

**Units:** ug/L  
**Basis:** NA

**Matrix Spike**  
KQ2505916-04

| Analyte Name | Sample Result | Result | Spike Amount | % Rec | % Rec Limits |
|--------------|---------------|--------|--------------|-------|--------------|
| Aluminum     | 8.9           | 114    | 100          | 105   | 70-130       |
| Antimony     | 0.520         | 10.3   | 10.0         | 98    | 70-130       |
| Arsenic      | 0.33 J        | 53.2   | 50.0         | 106   | 70-130       |
| Barium       | 3.68          | 104    | 100          | 101   | 70-130       |
| Beryllium    | ND U          | 2.51   | 2.50         | 100   | 70-130       |
| Boron        | 125           | 154    | 25.0         | 113 # | 70-130       |
| Cadmium      | 0.016 J       | 24.4   | 25.0         | 98    | 70-130       |
| Chromium     | 0.33          | 10.6   | 10.0         | 103   | 70-130       |
| Cobalt       | 0.161         | 25.7   | 25.0         | 102   | 70-130       |
| Copper       | 6.61          | 19.3   | 12.5         | 102   | 70-130       |
| Iron         | 19.7          | 70.5   | 50.0         | 102   | 70-130       |
| Lead         | 0.111         | 48.0   | 50.0         | 96    | 70-130       |
| Magnesium    | 7020          | 16500  | 10300        | 92    | 70-130       |
| Manganese    | 13.5          | 40.4   | 25.0         | 108   | 70-130       |
| Molybdenum   | 3.28          | 31.2   | 25.0         | 112   | 70-130       |
| Nickel       | 1.01          | 26.0   | 25.0         | 100   | 70-130       |
| Selenium     | ND U          | 50.5   | 50.0         | 101   | 70-130       |
| Silver       | ND U          | 12.2   | 12.5         | 97    | 70-130       |
| Thallium     | 0.014 J       | 47.9   | 50.0         | 96    | 70-130       |
| Tin          | 11.5          | 34.4   | 25.0         | 92    | 70-130       |
| Titanium     | 2.2 J         | 24.9   | 25.0         | 91    | 70-130       |
| Zinc         | 64.8          | 89.4   | 25.0         | 98    | 70-130       |

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Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642  
**Date Collected:** 04/09/25  
**Date Received:** 04/09/25  
**Date Analyzed:** 04/14/25  
**Date Extracted:** 04/10/25

**Matrix Spike Summary**  
**Total Metals**

**Sample Name:** Sludge  
**Lab Code:** K2503642-003  
**Analysis Method:** 6020A  
**Prep Method:** EPA 3050B

**Units:** mg/Kg  
**Basis:** Dry

**Matrix Spike**  
KQ2505871-02

| Analyte Name | Sample Result | Result | Spike Amount | % Rec | % Rec Limits |
|--------------|---------------|--------|--------------|-------|--------------|
| Aluminum     | 1930          | 10600  | 8670         | 100   | 75-125       |
| Antimony     | 1.5 J         | 2140   | 2160         | 99    | 75-125       |
| Arsenic      | 3 J           | 2150   | 2160         | 99    | 75-125       |
| Barium       | 73.0          | 4340   | 4320         | 99    | 75-125       |
| Beryllium    | ND U          | 206    | 216          | 96    | 75-125       |
| Boron        | 101           | 1610   | 1510         | 99    | 75-125       |
| Cadmium      | 0.75 J        | 218    | 216          | 101   | 75-125       |
| Chromium     | 21.1          | 870    | 867          | 98    | 75-125       |
| Cobalt       | 2.94          | 2240   | 2160         | 103   | 75-125       |
| Copper       | 338           | 1420   | 1080         | 100   | 75-125       |
| Iron         | 5030          | 9190   | 4320         | 96    | 75-125       |
| Lead         | 8.7           | 2180   | 2160         | 101   | 75-125       |
| Magnesium    | 5640          | 26800  | 21600        | 98    | 75-125       |
| Manganese    | 255           | 2360   | 2160         | 97    | 75-125       |
| Molybdenum   | 10.3          | 2160   | 2160         | 99    | 75-125       |
| Nickel       | 19.5          | 2160   | 2160         | 99    | 75-125       |
| Selenium     | 7 J           | 2220   | 2160         | 103   | 75-125       |
| Silver       | 0.91          | 216    | 216          | 100   | 75-125       |
| Thallium     | ND U          | 420    | 432          | 97    | 75-125       |
| Tin          | 25.2          | 406    | 432          | 88    | 75-125       |
| Titanium     | 140 J         | 520    | 430          | 89    | 75-125       |
| Zinc         | 649           | 2790   | 2160         | 99    | 75-125       |

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QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Water

**Service Request:** K2503642  
**Date Analyzed:** 04/14/25

**Lab Control Sample Summary**  
**Total Metals**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
KQ2505916-02

| Analyte Name | Analytical Method | Result | Spike Amount | % Rec | % Rec Limits |
|--------------|-------------------|--------|--------------|-------|--------------|
| Aluminum     | 200.8             | 105    | 100          | 105   | 85-115       |
| Antimony     | 200.8             | 9.09   | 10.0         | 91    | 85-115       |
| Arsenic      | 200.8             | 52.1   | 50.0         | 104   | 85-115       |
| Barium       | 200.8             | 101    | 100          | 101   | 85-115       |
| Beryllium    | 200.8             | 2.50   | 2.50         | 100   | 85-115       |
| Boron        | 200.8             | 22.5   | 25.0         | 90    | 85-115       |
| Cadmium      | 200.8             | 25.2   | 25.0         | 101   | 85-115       |
| Chromium     | 200.8             | 10.5   | 10.0         | 105   | 85-115       |
| Cobalt       | 200.8             | 25.7   | 25.0         | 103   | 85-115       |
| Copper       | 200.8             | 12.7   | 12.5         | 102   | 85-115       |
| Iron         | 200.8             | 50.7   | 50.0         | 101   | 85-115       |
| Lead         | 200.8             | 49.9   | 50.0         | 100   | 85-115       |
| Magnesium    | 200.8             | 9800   | 10300        | 96    | 85-115       |
| Manganese    | 200.8             | 26.1   | 25.0         | 104   | 85-115       |
| Molybdenum   | 200.8             | 27.5   | 25.0         | 110   | 85-115       |
| Nickel       | 200.8             | 25.7   | 25.0         | 103   | 85-115       |
| Selenium     | 200.8             | 52.8   | 50.0         | 106   | 85-115       |
| Silver       | 200.8             | 12.7   | 12.5         | 101   | 85-115       |
| Thallium     | 200.8             | 49.7   | 50.0         | 99    | 85-115       |
| Tin          | 200.8             | 25.3   | 25.0         | 101   | 85-115       |
| Titanium     | 200.8             | 22.3   | 25.0         | 89    | 85-115       |
| Zinc         | 200.8             | 26.0   | 25.0         | 104   | 85-115       |

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QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642  
**Date Analyzed:** 04/14/25

**Lab Control Sample Summary**  
**Total Metals**

**Units:**mg/Kg  
**Basis:**Dry

**Lab Control Sample**  
KQ2505871-04

| Analyte Name | Analytical Method | Result | Spike Amount | % Rec | % Rec Limits |
|--------------|-------------------|--------|--------------|-------|--------------|
| Aluminum     | 6020A             | 408    | 400          | 102   | 80-120       |
| Antimony     | 6020A             | 101    | 100          | 101   | 80-120       |
| Arsenic      | 6020A             | 101    | 100          | 101   | 80-120       |
| Barium       | 6020A             | 198    | 200          | 99    | 80-120       |
| Beryllium    | 6020A             | 9.89   | 10.0         | 99    | 80-120       |
| Boron        | 6020A             | 65.3   | 70.0         | 93    | 80-120       |
| Cadmium      | 6020A             | 10.1   | 10.0         | 101   | 80-120       |
| Chromium     | 6020A             | 40.0   | 40.0         | 100   | 80-120       |
| Cobalt       | 6020A             | 105    | 100          | 105   | 80-120       |
| Copper       | 6020A             | 50.0   | 50.0         | 100   | 80-120       |
| Iron         | 6020A             | 205    | 200          | 103   | 80-120       |
| Lead         | 6020A             | 102    | 100          | 102   | 80-120       |
| Magnesium    | 6020A             | 988    | 1000         | 99    | 80-120       |
| Manganese    | 6020A             | 100    | 100          | 100   | 80-120       |
| Molybdenum   | 6020A             | 100    | 100          | 100   | 80-120       |
| Nickel       | 6020A             | 101    | 100          | 101   | 80-120       |
| Selenium     | 6020A             | 105    | 100          | 105   | 80-120       |
| Silver       | 6020A             | 9.98   | 10.0         | 100   | 80-120       |
| Thallium     | 6020A             | 19.5   | 20.0         | 97    | 80-120       |
| Tin          | 6020A             | 19.1   | 20.0         | 95    | 80-120       |
| Titanium     | 6020A             | 20.7   | 20.0         | 103   | 80-120       |
| Zinc         | 6020A             | 100    | 100          | 100   | 80-120       |



## Semi-Volatile Petroleum Products by GC/FID

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360)577-7222 Fax (360)636-1068  
[www.alsglobal.com](http://www.alsglobal.com)



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Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids  
**Sample Name:** Sludge  
**Lab Code:** K2503642-003

**Service Request:** K2503642  
**Date Collected:** 04/09/25 08:00  
**Date Received:** 04/09/25 10:00  
**Units:** mg/Kg  
**Basis:** Dry

Semi-Volatile Petroleum Products by GC/FID

**Analysis Method:** NWTPH-Dx  
**Prep Method:** EPA 3510C

| Analyte Name                            | Result | MRL | MDL | Dil. | Date Analyzed  | Date Extracted | Q |
|---|--------|-----|-----|------|----------------|----------------|---|
| Diesel Range Organics (C12 - C25 DRO)   | 960 Y  | 170 | 7.4 | 1    | 04/17/25 18:43 | 4/11/25        |   |
| Residual Range Organics (C25 - C36 RRO) | 2300 O | 330 | 13  | 1    | 04/17/25 18:43 | 4/11/25        |   |

| Surrogate Name | % Rec | Control Limits | Date Analyzed  | Q |
|----------------|-------|----------------|----------------|---|
| o-Terphenyl    | 77    | 50 - 150       | 04/17/25 18:43 |   |
| n-Triacontane  | 94    | 50 - 150       | 04/17/25 18:43 |   |

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Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids  
  
**Sample Name:** Method Blank  
**Lab Code:** KQ2505863-02

**Service Request:** K2503642  
**Date Collected:** NA  
**Date Received:** NA  
  
**Units:** mg/Kg  
**Basis:** Dry

Semi-Volatile Petroleum Products by GC/FID

**Analysis Method:** NWTPH-Dx  
**Prep Method:** EPA 3510C

| Analyte Name                            | Result | MRL  | MDL  | Dil. | Date Analyzed  | Date Extracted | Q |
|---|--------|------|------|------|----------------|----------------|---|
| Diesel Range Organics (C12 - C25 DRO)   | ND U   | 0.50 | 0.11 | 1    | 04/17/25 17:37 | 4/11/25        |   |
| Residual Range Organics (C25 - C36 RRO) | ND U   | 1.0  | 0.19 | 1    | 04/17/25 17:37 | 4/11/25        |   |

| Surrogate Name | % Rec | Control Limits | Date Analyzed  | Q |
|----------------|-------|----------------|----------------|---|
| o-Terphenyl    | 87    | 50 - 150       | 04/17/25 17:37 |   |
| n-Triacontane  | 95    | 50 - 150       | 04/17/25 17:37 |   |

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QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642

**SURROGATE RECOVERY SUMMARY**  
**Semi-Volatile Petroleum Products by GC/FID**

**Analysis Method:** NWTPH-Dx  
**Extraction Method:** EPA 3510C

| Sample Name                  | Lab Code     | n-Triacontane | o-Terphenyl |
|------------------------------|--------------|---------------|-------------|
|                              |              | 50 - 150      | 50 - 150    |
| Sludge                       | K2503642-003 | 94            | 77          |
| Sludge DUP                   | KQ2505863-01 | 91            | 67          |
| Method Blank                 | KQ2505863-02 | 95            | 87          |
| Lab Control Sample           | KQ2505863-03 | 96            | 97          |
| Duplicate Lab Control Sample | KQ2505863-04 | 90            | 92          |

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## QA/QC Report

**Client:** Woodland, City of  
**Project** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642**Date Collected:** 04/09/25**Date Received:** 04/09/25**Date Analyzed:** 04/17/25

**Replicate Sample Summary**  
**Semi-Volatile Petroleum Products by GC/FID**

**Sample Name:** Sludge**Units:** mg/Kg**Lab Code:** K2503642-003**Basis:** Dry

|   |                            |            |            |                          | <b>Duplicate<br/>Sample<br/>KQ2505863-<br/>01</b> |                |            |                  |
|---|----------------------------|------------|------------|--------------------------|---|----------------|------------|------------------|
| <b>Analyte Name</b>                     | <b>Analysis<br/>Method</b> | <b>MRL</b> | <b>MDL</b> | <b>Sample<br/>Result</b> | <b>Result</b>                                     | <b>Average</b> | <b>RPD</b> | <b>RPD Limit</b> |
| Diesel Range Organics (C12 - C25 DRO)   | NWTPH-Dx                   | 170        | 7.4        | 960 Y                    | 890   | 926            | 8          | 30               |
| Residual Range Organics (C25 - C36 RRO) | NWTPH-Dx                   | 330        | 13         | 2300 O                   | 2000  | 2150           | 11         | 30               |

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QA/QC Report

|                       |   |                         |          |
|-----------------------|---|-------------------------|----------|
| <b>Client:</b>        | Woodland, City of                         | <b>Service Request:</b> | K2503642 |
| <b>Project:</b>       | Quarterly NPDES Sampling/City of Woodland | <b>Date Analyzed:</b>   | 04/17/25 |
| <b>Sample Matrix:</b> | Biosolids Solids                          | <b>Date Extracted:</b>  | 04/11/25 |

**Duplicate Lab Control Sample Summary**  
**Semi-Volatile Petroleum Products by GC/FID**

|                         |           |                      |        |
|-------------------------|-----------|----------------------|--------|
| <b>Analysis Method:</b> | NWTPH-Dx  | <b>Units:</b>        | mg/Kg  |
| <b>Prep Method:</b>     | EPA 3510C | <b>Basis:</b>        | Dry    |
|                         |           | <b>Analysis Lot:</b> | 876416 |

| Analyte Name                               | Lab Control Sample<br>KQ2505863-03 |                 |       | Duplicate Lab Control Sample<br>KQ2505863-04 |                 |       |                 |     |              |
|--|------------------------------------|-----------------|-------|--|-----------------|-------|-----------------|-----|--------------|
|  | Result                             | Spike<br>Amount | % Rec | Result                                       | Spike<br>Amount | % Rec | % Rec<br>Limits | RPD | RPD<br>Limit |
| Diesel Range Organics (C12 - C25 DRO)      | 3.34                               | 3.20            | 104   | 3.15   | 3.20            | 98    | 46-140          | 6   | 30           |
| Residual Range Organics (C25 - C36<br>RRO) | 1.84                               | 1.60            | 115   | 1.76   | 1.60            | 110   | 45-159          | 4   | 30           |

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QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642  
**Date Analyzed:** 04/17/25 17:59  
**Date Extracted:** 04/11/25

**Lab Control Sample Summary**  
**Semi-Volatile Petroleum Products by GC/FID**

**Sample Name:** Lab Control Sample  
**Lab Code:** KQ2505863-03  
**Analysis Method:** NWTPH-Dx  
**Prep Method:** EPA 3510C

**Instrument ID:** K-GC-35  
**File ID:** J:\GC35\DATA\041725F\0417022.D\  
**Analysis Lot:** 876416  
**Extraction Lot:** 455254

This Lab Control Sample applies to the following analyses.

| Sample Name                  | Lab Code     | File ID                         | Date Analyzed  |
|------------------------------|--------------|---------------------------------|----------------|
| Method Blank                 | KQ2505863-02 | J:\GC35\DATA\041725F\0417021.D\ | 04/17/25 17:37 |
| Duplicate Lab Control Sample | KQ2505863-04 | J:\GC35\DATA\041725F\0417023.D\ | 04/17/25 18:21 |
| Sludge                       | K2503642-003 | J:\GC35\DATA\041725F\0417024.D\ | 04/17/25 18:43 |
| SludgeDUP                    | KQ2505863-01 | J:\GC35\DATA\041725F\0417025.D\ | 04/17/25 19:05 |



## Semi-Volatile Petroleum Products by Silica Gel Treated by GC/FID

**ALS Environmental—Kelso Laboratory**  
*1317 South 13th Avenue, Kelso, WA 98626*  
*Phone (360)577-7222 Fax (360)636-1068*  
*[www.alsglobal.com](http://www.alsglobal.com)*

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642  
**Date Collected:** 04/09/25 08:00  
**Date Received:** 04/09/25 10:00

**Sample Name:** Sludge  
**Lab Code:** K2503642-003

**Units:** mg/Kg  
**Basis:** Dry

**Semi-Volatile Petroleum Products, Silica Gel Treated by GC/FID**

**Analysis Method:** NWTPH-Dx  
**Prep Method:** EPA 3510C

| Analyte Name                            | Result        | MRL | MDL | Dil. | Date Analyzed  | Date Extracted | Q |
|---|---------------|-----|-----|------|----------------|----------------|---|
| Diesel Range Organics (C12 - C25 DRO)   | <b>500 Y</b>  | 170 | 7.4 | 1    | 04/17/25 16:53 | 4/11/25        |   |
| Residual Range Organics (C25 - C36 RRO) | <b>1200 O</b> | 330 | 13  | 1    | 04/17/25 16:53 | 4/11/25        |   |

| Surrogate Name | % Rec | Control Limits | Date Analyzed  | Q |
|----------------|-------|----------------|----------------|---|
| o-Terphenyl    | 95    | 50 - 150       | 04/17/25 16:53 |   |
| n-Triacontane  | 106   | 50 - 150       | 04/17/25 16:53 |   |



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** KQ2505864-02

**Units:** mg/Kg  
**Basis:** Dry

**Semi-Volatile Petroleum Products, Silica Gel Treated by GC/FID**

**Analysis Method:** NWTPH-Dx  
**Prep Method:** EPA 3510C

| Analyte Name                            | Result | MRL  | MDL  | Dil. | Date Analyzed  | Date Extracted | Q |
|---|--------|------|------|------|----------------|----------------|---|
| Diesel Range Organics (C12 - C25 DRO)   | ND U   | 0.50 | 0.11 | 1    | 04/17/25 15:47 | 4/11/25        |   |
| Residual Range Organics (C25 - C36 RRO) | ND U   | 1.0  | 0.19 | 1    | 04/17/25 15:47 | 4/11/25        |   |

| Surrogate Name | % Rec | Control Limits | Date Analyzed  | Q |
|----------------|-------|----------------|----------------|---|
| o-Terphenyl    | 98    | 50 - 150       | 04/17/25 15:47 |   |
| n-Triacontane  | 106   | 50 - 150       | 04/17/25 15:47 |   |

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642

**SURROGATE RECOVERY SUMMARY**  
**Semi-Volatile Petroleum Products, Silica Gel Treated by GC/FID**

**Analysis Method:** NWTPH-Dx  
**Extraction Method:** EPA 3510C

| Sample Name                  | Lab Code     | n-Triacontane | o-Terphenyl |
|------------------------------|--------------|---------------|-------------|
|                              |              | 50 - 150      | 50 - 150    |
| Sludge                       | K2503642-003 | 106           | 95          |
| Sludge DUP                   | KQ2505864-01 | 102           | 94          |
| Method Blank                 | KQ2505864-02 | 106           | 98          |
| Lab Control Sample           | KQ2505864-03 | 108           | 109         |
| Duplicate Lab Control Sample | KQ2505864-04 | 106           | 107         |

**ALS Group USA, Corp.**

dba ALS Environmental

## QA/QC Report

**Client:** Woodland, City of  
**Project** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642**Date Collected:** 04/09/25**Date Received:** 04/09/25**Date Analyzed:** 04/17/25**Replicate Sample Summary****Semi-Volatile Petroleum Products, Silica Gel Treated by GC/FID****Sample Name:** Sludge**Units:** mg/Kg**Lab Code:** K2503642-003**Basis:** Dry

| Analyte Name                            | Analysis Method | MRL | MDL | Sample Result | Duplicate Sample<br>KQ2505864-01<br>Result | Average | RPD | RPD Limit |
|---|-----------------|-----|-----|---------------|--|---------|-----|-----------|
|   |                 |     |     |               |  |         |     |           |
| Diesel Range Organics (C12 - C25 DRO)   | NWTPH-Dx        | 170 | 7.4 | 500 Y         | 530  | 518     | 5   | 30        |
| Residual Range Organics (C25 - C36 RRO) | NWTPH-Dx        | 330 | 13  | 1200 O        | 1200                                       | 1200    | 5   | 30        |

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
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QA/QC Report

|                       |   |                         |          |
|-----------------------|---|-------------------------|----------|
| <b>Client:</b>        | Woodland, City of                         | <b>Service Request:</b> | K2503642 |
| <b>Project:</b>       | Quarterly NPDES Sampling/City of Woodland | <b>Date Analyzed:</b>   | 04/17/25 |
| <b>Sample Matrix:</b> | Biosolids Solids                          | <b>Date Extracted:</b>  | 04/11/25 |

**Duplicate Lab Control Sample Summary**  
**Semi-Volatile Petroleum Products, Silica Gel Treated by GC/FID**

|                         |           |                      |        |
|-------------------------|-----------|----------------------|--------|
| <b>Analysis Method:</b> | NWTPH-Dx  | <b>Units:</b>        | mg/Kg  |
| <b>Prep Method:</b>     | EPA 3510C | <b>Basis:</b>        | Dry    |
|                         |           | <b>Analysis Lot:</b> | 876417 |

| Analyte Name                            | Lab Control Sample |              |       | Duplicate Lab Control Sample |              |       |              |     |           |
|---|--------------------|--------------|-------|------------------------------|--------------|-------|--------------|-----|-----------|
|   | KQ2505864-03       |              |       | KQ2505864-04                 |              |       |              |     |           |
|   | Result             | Spike Amount | % Rec | Result                       | Spike Amount | % Rec | % Rec Limits | RPD | RPD Limit |
| Diesel Range Organics (C12 - C25 DRO)   | 3.69               | 3.20         | 115   | 3.56                         | 3.20         | 111   | 46-140       | 4   | 30        |
| Residual Range Organics (C25 - C36 RRO) | 2.06               | 1.60         | 129   | 2.02                         | 1.60         | 126   | 45-159       | 2   | 30        |

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QA/QC Report

**Client:** Woodland, City of  
**Project:** Quarterly NPDES Sampling/City of Woodland  
**Sample Matrix:** Biosolids Solids

**Service Request:** K2503642  
**Date Analyzed:** 04/17/25 16:09  
**Date Extracted:** 04/11/25

**Lab Control Sample Summary**  
**Semi-Volatile Petroleum Products, Silica Gel Treated by GC/FID**

**Sample Name:** Lab Control Sample  
**Lab Code:** KQ2505864-03  
**Analysis Method:** NWTPH-Dx  
**Prep Method:** EPA 3510C

**Instrument ID:** K-GC-35  
**File ID:** J:\GC35\DATA\041725F\0417017.D\  
**Analysis Lot:** 876417  
**Extraction Lot:** 455255

This Lab Control Sample applies to the following analyses.

| Sample Name                  | Lab Code     | File ID                         | Date Analyzed  |
|------------------------------|--------------|---------------------------------|----------------|
| Method Blank                 | KQ2505864-02 | J:\GC35\DATA\041725F\0417016.D\ | 04/17/25 15:47 |
| Duplicate Lab Control Sample | KQ2505864-04 | J:\GC35\DATA\041725F\0417018.D\ | 04/17/25 16:31 |
| Sludge                       | K2503642-003 | J:\GC35\DATA\041725F\0417019.D\ | 04/17/25 16:53 |
| SludgeDUP                    | KQ2505864-01 | J:\GC35\DATA\041725F\0417020.D\ | 04/17/25 17:15 |



## Subcontract Lab Results

**ALS Environmental—Kelso Laboratory**  
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ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Thursday, April 24, 2025

Karen Melerine

ALS Group USA - Kelso

1317 S 13th Avenue

Kelso, WA 98626

RE: A5D1392 - Cr6 (DryWt) - K2503642

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A5D1392, which was received by the laboratory on 4/11/2025 at 9:34:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [jwoodcock@apex-labs.com](mailto:jwoodcock@apex-labs.com), or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Default Cooler 2.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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Jason Woodcock, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

ALS Group USA - Kelso

1317 S 13th Avenue  
Kelso, WA 98626

Project: Cr6 (DryWt)

Project Number: **K2503642**

Project Manager: **Karen Melerine**

Report ID:

**A5D1392 - 04 24 25 1114**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

| Client Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|------------------|---------------|--------|----------------|----------------|
| Sludge           | A5D1392-01    | Solid  | 04/09/25 08:00 | 04/11/25 09:34 |

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Jason Woodcock, Project Manager



**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323

ORELAP ID: OR100062

**ALS Group USA - Kelso**1317 S 13th Avenue  
Kelso, WA 98626Project: **Cr6 (DryWt)**Project Number: **K2503642**Project Manager: **Karen Melerine****Report ID:****A5D1392 - 04 24 25 1114****ANALYTICAL SAMPLE RESULTS****Total Hexavalent Chromium by Colorimetric Spectrophotometry**

| Analyte                    | Sample Result | Detection Limit | Reporting Limit | Units                | Dilution | Date Analyzed         | Method Ref. | Notes      |
|----------------------------|---------------|-----------------|-----------------|----------------------|----------|-----------------------|-------------|------------|
| <b>Sludge (A5D1392-01)</b> |               |                 |                 | <b>Matrix: Solid</b> |          | <b>Batch: 25D0783</b> |             |            |
| Chromium (VI)              | ND            | 14.8            | 29.7            | mg/kg dry            | 1        | 04/23/25 14:51        | EPA 7196A   | Q-42, Q-57 |

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Jason Woodcock, Project Manager

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ALS Group USA - Kelso

1317 S 13th Avenue  
Kelso, WA 98626

Project: Cr6 (DryWt)

Project Number: **K2503642**

Project Manager: **Karen Melerine**

Report ID:

**A5D1392 - 04 24 25 1114**

ANALYTICAL SAMPLE RESULTS

**Solid and Moisture Determinations**

| Analyte             | Sample Result | Detection Limit | Reporting Limit | Units         | Dilution | Date Analyzed  | Method Ref. | Notes |
|---------------------|---------------|-----------------|-----------------|---------------|----------|----------------|-------------|-------|
| Sludge (A5D1392-01) |               |                 |                 | Matrix: Solid |          |                |             |       |
| Batch: 25D0548      |               |                 |                 |               |          |                |             |       |
| Total Solids        | 1.51          | ---             | 1.00            | %             | 1        | 04/14/25 11:10 | SM 2540 G   |       |

Apex Laboratories

Jason Woodcock, Project Manager

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## ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

ALS Group USA - Kelso

1317 S 13th Avenue  
Kelso, WA 98626Project: **Cr6 (DryWt)**Project Number: **K2503642**Project Manager: **Karen Melerine**

Report ID:

A5D1392 - 04 24 25 1114

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Total Hexavalent Chromium by Colorimetric Spectrophotometry

| Analyte   | Result | Detection Limit | Reporting Limit | Units     | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes        |
|---|--------|-----------------|-----------------|-----------|----------|--------------|---------------|-------|--------------|-----|-----------|--------------|
| <b>Batch 25D0783 - EPA 3060A</b>                  |        |                 |                 |           |          |              |               |       |              |     |           |              |
| <b>Soil</b>                                       |        |                 |                 |           |          |              |               |       |              |     |           |              |
| <b>Blank (25D0783-BLK1)</b>                       |        |                 |                 |           |          |              |               |       |              |     |           |              |
| Prepared: 04/18/25 12:35 Analyzed: 04/23/25 14:50 |        |                 |                 |           |          |              |               |       |              |     |           |              |
| <u>EPA 7196A</u>                                  |        |                 |                 |           |          |              |               |       |              |     |           |              |
| Chromium (VI)                                     | ND     | 0.225           | 0.450           | mg/kg wet | 1        | ---          | ---           | ---   | ---          | --- | ---       |              |
| <b>LCS (25D0783-BS1)</b>                          |        |                 |                 |           |          |              |               |       |              |     |           |              |
| Prepared: 04/18/25 12:35 Analyzed: 04/23/25 14:50 |        |                 |                 |           |          |              |               |       |              |     |           |              |
| <u>EPA 7196A</u>                                  |        |                 |                 |           |          |              |               |       |              |     |           |              |
| Chromium (VI)                                     | 16.1   | 0.225           | 0.450           | mg/kg wet | 1        | 20.0         | ---           | 80    | 80 - 120%    | --- | ---       |              |
| <b>Matrix Spike (25D0783-MS1)</b>                 |        |                 |                 |           |          |              |               |       |              |     |           |              |
| Prepared: 04/18/25 12:35 Analyzed: 04/23/25 14:53 |        |                 |                 |           |          |              |               |       |              |     |           |              |
| <u>QC Source Sample: Sludge (A5D1392-01)</u>      |        |                 |                 |           |          |              |               |       |              |     |           |              |
| <u>EPA 7196A</u>                                  |        |                 |                 |           |          |              |               |       |              |     |           |              |
| Chromium (VI)                                     | 708    | 14.7            | 29.4            | mg/kg dry | 1        | 1300         | ND            | 54    | 75 - 125%    | --- | ---       | Cr6-01, Q-57 |
| <b>Matrix Spike (25D0783-MS2)</b>                 |        |                 |                 |           |          |              |               |       |              |     |           |              |
| Prepared: 04/18/25 12:35 Analyzed: 04/23/25 14:53 |        |                 |                 |           |          |              |               |       |              |     |           |              |
| <u>QC Source Sample: Sludge (A5D1392-01)</u>      |        |                 |                 |           |          |              |               |       |              |     |           |              |
| <u>EPA 7196A</u>                                  |        |                 |                 |           |          |              |               |       |              |     |           |              |
| Chromium (VI)                                     | 62400  | 1330            | 2670            | mg/kg dry | 100      | 75900        | ND            | 82    | 75 - 125%    | --- | ---       |              |
| <b>Matrix Spike Dup (25D0783-MSD1)</b>            |        |                 |                 |           |          |              |               |       |              |     |           |              |
| Prepared: 04/18/25 12:35 Analyzed: 04/23/25 14:53 |        |                 |                 |           |          |              |               |       |              |     |           |              |
| <u>QC Source Sample: Sludge (A5D1392-01)</u>      |        |                 |                 |           |          |              |               |       |              |     |           |              |
| <u>EPA 7196A</u>                                  |        |                 |                 |           |          |              |               |       |              |     |           |              |
| Chromium (VI)                                     | 831    | 14.9            | 29.7            | mg/kg dry | 1        | 1320         | ND            | 63    | 75 - 125%    | 16  | 20%       | Cr6-01, Q-57 |
| <b>Post Spike (25D0783-PS1)</b>                   |        |                 |                 |           |          |              |               |       |              |     |           |              |
| Prepared: 04/18/25 12:35 Analyzed: 04/23/25 15:00 |        |                 |                 |           |          |              |               |       |              |     |           |              |
| <u>QC Source Sample: Sludge (A5D1392-01)</u>      |        |                 |                 |           |          |              |               |       |              |     |           |              |
| <u>EPA 7196A</u>                                  |        |                 |                 |           |          |              |               |       |              |     |           |              |
| Chromium (VI)                                     | 350    |                 |                 | ug/L      | 1        | 398          | ND            | 88    | 85 - 115%    |     | ---       | Q-57         |

Apex Laboratories

Jason Woodcock, Project Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

ALS Group USA - Kelso

1317 S 13th Avenue  
Kelso, WA 98626

Project: Cr6 (DryWt)

Project Number: **K2503642**

Project Manager: **Karen Melerine**

**Report ID:**

**A5D1392 - 04 24 25 1114**

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

| Analyte  | Result | Detection Limit                                      | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD   | RPD Limit | Notes |
|--|--------|--|-----------------|-------|----------|--------------|---------------|-------|--------------|-------|-----------|-------|
| Batch 25D0548 - Total Solids (SM2540G/PSEP) - 2022 |        |  |                 |       |          |              | Sediment      |       |              |       |           |       |
| Duplicate (25D0548-DUP2)                           |        | Prepared: 04/14/25 11:10    Analyzed: 04/14/25 11:10 |                 |       |          |              |               |       |              |       |           |       |
| QC Source Sample: Sludge (A5D1392-01)              |        |  |                 |       |          |              |               |       |              |       |           |       |
| SM 2540 G  |        |  |                 |       |          |              |               |       |              |       |           |       |
| Total Solids                                       | 1.52   | ---  | 1.00            | %     | 1        | ---          | 1.51          | ---   | ---          | 0.660 | 10%       |       |

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Jason Woodcock, Project Manager

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ALS Group USA - Kelso

1317 S 13th Avenue  
Kelso, WA 98626

Project: Cr6 (DryWt)

Project Number: **K2503642**

Project Manager: **Karen Melerine**

**Report ID:**

**A5D1392 - 04 24 25 1114**

SAMPLE PREPARATION INFORMATION

Total Hexavalent Chromium by Colorimetric Spectrophotometry

Prep: EPA 3060A

| Lab Number            | Matrix | Method    | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|-----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <u>Batch: 25D0783</u> |        |           |                |                |                         |                          |                   |
| A5D1392-01            | Solid  | EPA 7196A | 04/09/25 08:00 | 04/18/25 12:35 | 2.5089g/111mL           | 2.5g/111mL               | 1.00              |

Solid and Moisture Determinations

Prep: Total Solids (SM2540G/PSEP) - 2022

| Lab Number            | Matrix | Method    | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|-----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <u>Batch: 25D0548</u> |        |           |                |                |                         |                          |                   |
| A5D1392-01            | Solid  | SM 2540 G | 04/09/25 08:00 | 04/14/25 11:10 | 1g                      | 1g                       | 1.00              |

Apex Laboratories

Jason Woodcock, Project Manager

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## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**ALS Group USA - Kelso**

1317 S 13th Avenue  
Kelso, WA 98626

Project: **Cr6 (DryWt)**

Project Number: **K2503642**

Project Manager: **Karen Melerine**

**Report ID:**

**A5D1392 - 04 24 25 1114**

## QUALIFIER DEFINITIONS

### **Client Sample and Quality Control (QC) Sample Qualifier Definitions:**

**Apex Laboratories**

- Cr6-01** Matrix Spike fails due to probable reducing conditions present in the sample. Sample is ND. Data quality is not affected because any hexavalent chromium present in the sample is likely to have been reduced to chromium three.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-57** Compensation for background color and/or turbidity has been made by subtracting the absorbance of a second aliquot of sample to which all reagents except the color producing reagent have been added, in accordance with the method.

Apex Laboratories

Jason Woodcock, Project Manager

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## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**ALS Group USA - Kelso**

1317 S 13th Avenue  
Kelso, WA 98626

Project: **Cr6 (DryWt)**

Project Number: **K2503642**

Project Manager: **Karen Melerine**

**Report ID:**

**A5D1392 - 04 24 25 1114**

### REPORTING NOTES AND CONVENTIONS:

**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.  
ND Analyte NOT DETECTED at or above the detection or reporting limit.  
NR Result Not Reported.  
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).  
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting and Detection Limits: Default Limits**

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

**Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.  
The Result Basis is listed following the units as "dry", "wet", or "" (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")  
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" \*\*\* " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

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Jason Woodcock, Project Manager



## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**ALS Group USA - Kelso**

1317 S 13th Avenue  
Kelso, WA 98626

Project: **Cr6 (DryWt)**

Project Number: **K2503642**

Project Manager: **Karen Melerine**

**Report ID:**

**A5D1392 - 04 24 25 1114**

### REPORTING NOTES AND CONVENTIONS (Cont.):

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).

Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

**Preparation Notes:**

**Mixed Matrix Samples:**

**Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

**Soil and Sediment Samples:**

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Apex Laboratories

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Jason Woodcock, Project Manager





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Project Manager: **Karen Melerine**

**Report ID:**

**A5D1392 - 04 24 25 1114**

**Decanted Samples:**

**Soils/Sediments:**

Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

**Water Samples:**

Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

**Volatiles Soils (5035s)**

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight correction as for normal analyses.

In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

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Jason Woodcock, Project Manager



## ANALYTICAL REPORT

**Apex Laboratories, LLC**

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Project: **Cr6 (DryWt)**

Project Number: **K2503642**

Project Manager: **Karen Melerine**

**Report ID:**

**A5D1392 - 04 24 25 1114**

### LABORATORY ACCREDITATION INFORMATION

**ORELAP Certification ID: OR100062 (Primary Accreditation)**

**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

**Apex Laboratories**

| Matrix | Analysis | TNI_ID | Analyte | TNI_ID | Accreditation |
|--------|----------|--------|---------|--------|---------------|
|--------|----------|--------|---------|--------|---------------|

All reported analytes are included in Apex Laboratories' current ORELAP scope.

**Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

**Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

**Field Testing Parameters**

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Jason Woodcock, Project Manager

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

ALS Group USA - Kelso

1317 S 13th Avenue

Kelso, WA 98626

Project: **Cr6 (DryWt)**Project Number: **K2503642**Project Manager: **Karen Melerine**

Report ID:

A5D1392 - 04 24 25 1114

## ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-800-577-7222 • FAX 1-360-636-1068

ALS Contact: Karen Melerine

Project Number: K2503642  
Project Manager: Karen Melerine  
QAP: LAB QAP

| Lab Code     | Sample ID | # of Cont. | Matrix    | Sample |      | Misc Out 1 |
|--------------|-----------|------------|-----------|--------|------|------------|
|              |           |            |           | Date   | Time |            |
| K2503642-003 | Sludge    | 1          | Biosolids | 4/9/25 | 0800 | X          |

## Test Comments

Misc Out 1 - None

K2503642-003

Hexavalent Chromium by EPA 7196A, report to the MDL

## Folder Comments:

Biosolids is dewatered sludge with ~15% TS, or it may be 1.5% slurry  
Report Biosolids in mg/kg dry  
Limited sample: Do not use for Batch QC

|   |   |  |   |
|---|---|--|---|
| <b>Special Instructions/Comments</b><br>Please provide the electronic (PDF and EDD) report to the following e-mail address:<br>ALKLS.Dan@alsglobal.com.<br><br>NPDES, please use the client's ID as sample ID<br><br>H - Test is On Hold P - Test is Authorized for Prep Only | <b>Turnaround Requirements</b><br>RUSH (Surcharges Apply)<br>PLEASE CIRCLE WORK DAYS<br>1 2 3 4 5<br>X STANDARD<br>Requested FAX Date: _____<br>Requested Report Date: 04/22/25 | <b>Report Requirements</b><br>I. Results Only<br>X II. Results + QC Summaries<br>III. Results + QC and Calibration Summaries<br>IV. Data Validation Report with Raw Data<br>PQL/MDL/J Y<br>EDD N | <b>Invoice Information</b><br>PO# 51K2503642<br>Bill to |
|---|---|--|---|

Relinquished By: *[Signature]*Received By: *[Signature]*Arb. Number: *[Signature]*

Page 1

Apex Laboratories

*[Signature]*

Jason Woodcock, Project Manager

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

ALS Group USA - Kelso

1317 S 13th Avenue

Kelso, WA 98626

Project: Cr6 (DryWt)

Project Number: K2503642

Project Manager: Karen Melerine

Report ID:

A5D1392 - 04 24 25 1114

## APEX LABS COOLER RECEIPT FORM

Client: ALS Element WO#: A5 D1392Project/Project #: K2503642

## Delivery Info:

Date/time received: 4/11/25 @ 934 By: JSDelivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐From USDA Regulated Origin? Yes ☐ No ☒Cooler Inspection Date/time inspected: 4/11/25 @ 940 By: JSChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐Contains USDA Reg. Soils? Yes ☐ No ☒ Unsure (email RegSoils) ☐

|                            | Cooler #1  | Cooler #2 | Cooler #3 | Cooler #4 | Cooler #5 | Cooler #6 | Cooler #7 |
|----------------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Temperature (°C)           | <u>2.3</u> |           |           |           |           |           |           |
| Custody seals? (Y/N)       | <u>N</u>   |           |           |           |           |           |           |
| Received on ice? (Y/N)     | <u>y</u>   |           |           |           |           |           |           |
| Temp. blanks? (Y/N)        | <u>y</u>   |           |           |           |           |           |           |
| Ice type: (Gel/Real/Other) | <u>gel</u> |           |           |           |           |           |           |
| Condition (In/Out):        | <u>In</u>  |           |           |           |           |           |           |

Cooler out of temp? (Y/N) Possible reason why: (N)Green dots applied to out of temperature samples? Yes ☐ No ☒Out of temperature samples form initiated? Yes ☐ No ☒Sample Inspection: Date/time inspected: 4/11/25 @ 1235 By: JSAll samples intact? Yes ☒ No ☐ Comments: Bottle labels/COCs agree? Yes ☒ No ☐ Comments: COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒Comments: Water samples: pH checked: Yes ☐ No ☒ NA ☐ pH appropriate? Yes ☐ No ☐ NA ☒ pH ID: Comments: Labeled by: JS

Witness:

JKM

Cooler Inspected by:

JS

Form Y-003 R-02 -

Apex Laboratories

Jason Woodcock, Project Manager

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Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | [www.alsglobal.com](http://www.alsglobal.com)  
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618  
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

**ALS Environmental-Kelso**

Project K2503642  
Workorder 3409986  
Report ID 410030 on 4/23/2025

### Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Apr 10, 2025.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Kaleb Brown (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.  
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

ALKLS Data - ALS Environmental-Kelso  
Karen Melerine - ALS Environmental-Kelso

*Kaleb Brown*

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

**Kaleb Brown**  
Project Coordinator

(ALS Digital Signature)



Sample Summary

| Lab ID     | Sample ID      | Matrix | Date Collected   | Date Received    | Collector | Collection Company  |
|------------|----------------|--------|------------------|------------------|-----------|---------------------|
| 3409986001 | Influent       | Water  | 04/09/2025 08:00 | 04/10/2025 08:52 | CBC       | Collected By Client |
| 3409986002 | Final Effluent | Water  | 04/09/2025 08:00 | 04/10/2025 08:52 | CBC       | Collected By Client |



## Reference

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  - EPA 300.1 Rev. 1.0-1997
  - EPA 300.0 Rev. 2.1-1993
  - EPA 353.2 Rev. 2.0-1993
  - EPA 410.4 Rev. 1.0-1993
  - EPA 420.4 Rev. 1.0-1993
  - EPA 365.1 Rev. 2.0-1993
  - EPA 200.7 Rev. 4.4-1994
  - EPA 200.8 Rev. 5.4-1994
  - EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

### Standard Acronyms/Flags

|        |  |
|--------|--|
| J      | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte     |
| U      | Indicates that the analyte was Not Detected (ND) above the MDL   |
| N      | Indicates presumptive evidence of the presence of a compound   |
| MDL    | Method Detection Limit   |
| PQL    | Practical Quantitation Limit   |
| RDL    | Practical Quantitation Limit for this Project  |
| ND     | Not Detected - indicates that the analyte was Not Detected   |
| Cntr   | Analysis was performed using this container  |
| RegLmt | Regulatory Limit   |
| LCS    | Laboratory Control Sample  |
| MS     | Matrix Spike   |
| MSD    | Matrix Spike Duplicate   |
| DUP    | Sample Duplicate   |
| %Rec   | Percent Recovery   |
| RPD    | Relative Percent Difference  |
| LOD    | DoD Limit of Detection   |
| LOQ    | DoD Limit of Quantitation  |
| DL     | DoD Detection Limit  |
| I      | Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL) |
| (S)    | Surrogate Compound   |
| NC     | Not Calculated   |
| *      | Result outside of QC limits  |
| #      | Please reference the result in the Results Section for analyte-level flags.  |



| Project Notations |  |
|-------------------|--|
|                   |  |

| Sample Notations |           |
|------------------|-----------|
| Lab ID           | Sample ID |

| Result Notations |  |
|------------------|--|
| Notation Ref.    |  |





Detected Results Summary

|                  |            |             |                  |
|------------------|------------|-------------|------------------|
| Client Sample ID | Influent   | Collected   | 04/09/2025 08:00 |
| Lab Sample ID    | 3409986001 | Lab Receipt | 04/10/2025 08:52 |

| Compound            | Result | Units | RDL  | MDL   | Method    | Flag |
|---------------------|--------|-------|------|-------|-----------|------|
| WET CHEMISTRY       |        |       |      |       |           |      |
| Hexavalent Chromium | 0.20   | ug/L  | 0.10 | 0.036 | EPA 218.6 | #    |



Detected Results Summary

|                  |                |             |                  |
|------------------|----------------|-------------|------------------|
| Client Sample ID | Final Effluent | Collected   | 04/09/2025 08:00 |
| Lab Sample ID    | 3409986002     | Lab Receipt | 04/10/2025 08:52 |

| Compound            | Result | Units | RDL  | MDL   | Method    | Flag |
|---------------------|--------|-------|------|-------|-----------|------|
| WET CHEMISTRY       |        |       |      |       |           |      |
| Hexavalent Chromium | 0.16   | ug/L  | 0.10 | 0.036 | EPA 218.6 | #    |



Results

|                  |            |             |                  |
|------------------|------------|-------------|------------------|
| Client Sample ID | Influent   | Collected   | 04/09/2025 08:00 |
| Lab Sample ID    | 3409986001 | Lab Receipt | 04/10/2025 08:52 |

WET CHEMISTRY

| Compound            | Result | Flag | Units | RDL  | MDL   | Method    | Dilution | Analysis Date/Time | By  | Cntr |
|---------------------|--------|------|-------|------|-------|-----------|----------|--------------------|-----|------|
| Hexavalent Chromium | 0.20   |      | ug/L  | 0.10 | 0.036 | EPA 218.6 | 5        | 04/15/2025 19:02   | DMG | A    |



Results

|                  |                |             |                  |
|------------------|----------------|-------------|------------------|
| Client Sample ID | Final Effluent | Collected   | 04/09/2025 08:00 |
| Lab Sample ID    | 3409986002     | Lab Receipt | 04/10/2025 08:52 |

WET CHEMISTRY

| Compound            | Result | Flag | Units | RDL  | MDL   | Method    | Dilution | Analysis Date/Time | By  | Cntr |
|---------------------|--------|------|-------|------|-------|-----------|----------|--------------------|-----|------|
| Hexavalent Chromium | 0.16   |      | ug/L  | 0.10 | 0.036 | EPA 218.6 | 5        | 04/15/2025 19:12   | DMG | A    |



Sample - Method Cross Reference Table

| Lab ID     | Sample ID      | Analysis Method | Preparation Method | Leachate Method |
|------------|----------------|-----------------|--------------------|-----------------|
| 3409986001 | Influent       | EPA 218.6       | N/A                |                 |
| 3409986002 | Final Effluent | EPA 218.6       | N/A                |                 |



QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch1423608

Prep MethodN/A

DateN/A

Analysis MethodEPA 218.6

Tech.

| Associated Samples |            |
|--------------------|------------|
| 3409986001         | 3409986002 |

|              |              |                             |                      |
|--------------|--------------|-----------------------------|----------------------|
| Method Blank | 3970516 (MB) | Created on 04/14/2025 17:49 | For QC Batch 1423608 |
|--------------|--------------|-----------------------------|----------------------|

RESULTS

| Compound            | CAS No |     | Result | Units | RDL   | Qualifiers |
|---------------------|--------|-----|--------|-------|-------|------------|
| Hexavalent Chromium | CR6    | BLK | ND     | ug/L  | 0.020 | ND         |

|                      |               |                             |                      |
|----------------------|---------------|-----------------------------|----------------------|
| Lab Control Standard | 3970517 (LCS) | Created on 04/14/2025 17:49 | For QC Batch 1423608 |
|----------------------|---------------|-----------------------------|----------------------|

RESULTS

| Compound            | CAS No |     | Result (ug/L) | Orig. Result (ug/L) | Spk Added (ug/L) | Rec. (%) | Limits (%) | RPD Limit (%) | Qualifiers |
|---------------------|--------|-----|---------------|---------------------|------------------|----------|------------|---------------|------------|
| Hexavalent Chromium | CR6    | LCS | 5             |                     | 5                | 100      | 90 - 110   |               |            |

|              |              |                             |                      |
|--------------|--------------|-----------------------------|----------------------|
| Method Blank | 3970521 (MB) | Created on 04/14/2025 17:49 | For QC Batch 1423608 |
|--------------|--------------|-----------------------------|----------------------|

RESULTS

| Compound            | CAS No |     | Result | Units | RDL   | Qualifiers |
|---------------------|--------|-----|--------|-------|-------|------------|
| Hexavalent Chromium | CR6    | BLK | ND     | ug/L  | 0.020 | ND         |



QUALITY CONTROL DATA CROSS REFERENCE TABLE

| Lab ID     | Sample ID      | Preparation Method | Prep Batch | Prep Date/Time | By | Analysis Method | Anly Batch |
|------------|----------------|--------------------|------------|----------------|----|-----------------|------------|
| 3409986001 | Influent       | N/A                | N/A        | N/A            |    | EPA 218.6       | 1423608    |
| 3409986002 | Final Effluent | N/A                | N/A        | N/A            |    | EPA 218.6       | 1423608    |

# ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Karen Melerine

Project Number: K2503642  
Project Manager: Karen Melerine  
QAP: LAB QAP



3409986  
Logged By: CXW  
PM: KSB



| Lab Code     | Sample ID      | # of Cont. | Matrix | Sample |      | Lab ID         |   |
|--------------|----------------|------------|--------|--------|------|----------------|---|
|              |                |            |        | Date   | Time |                |   |
| K2503642-001 | Influent       | 1          | Water  | 4/9/25 | 0800 | Middletown ALS | X |
| K2503642-002 | Final Effluent | 1          | Water  | 4/9/25 | 0800 | Middletown ALS | X |

Cr6 D LL  
218.6 LL

P/NH4DH  
GRD4/10/25

Sampler's Name not legible on client COC.

## Test Comments

Cr6 D LL - 218.6 LL

K2503642-001,2

Cr6 by 218.6 LL to ALS-Middletown

## Folder Comments:

Report Inf & Eff in ug/L

|  |  |  |  |
|--|--|--|--|
| <b>Special Instructions/Comments</b><br>Please provide the electronic (PDF and EDD) report to the following e-mail address:<br>ALKLS.Data@alsglobal.com.<br><br><b>NPDES, please use the client's ID as sample ID</b><br><br>H - Test is On Hold      P - Test is Authorized for Prep Only | <b>Turnaround Requirements</b><br>___ RUSH (Surcharges Apply)<br><b>PLEASE CIRCLE WORK DAYS</b><br>1   2   3   4   5<br>___ STANDARD<br>Requested FAX Date: _____<br>Requested Report Date: 04/21/25 | <b>Report Requirements</b><br>___ I. Results Only<br>___ X ___ II. Results + QC Summaries<br>___ III. Results + QC and Calibration Summaries<br>___ IV. Data Validation Report with Raw Data<br><br>PQL/MDL/J <u>Y</u><br>EDD <u>N</u> | <b>Invoice Information</b><br><br>PO#<br>51K2503642<br><br>Bill to |
|--|--|--|--|

Relinquished By:

*[Signature]* 04/04/25

Received By:

*[Signature]* 4/10/25 0852

Airbill Number:



**K2503642**

X **Ship To: Middletown ALS**  
ALS Environmental - Middletown  
301 Fulling Mill Rd.  
Middletown, PA 17057

|     |                           |      |                 |
|-----|---------------------------|------|-----------------|
| PC  | <u>KSM</u>                | Date | <u>04/09/25</u> |
| SMO | <u><i>[Signature]</i></u> | Date | <u>04/09</u>    |

**Instructions:**

|         |   |
|---------|---|
| Ice     | X |
| Dry Ice |   |
| No Ice  |   |

### Bill to Client Account

**Shipping:**

|           |                   |
|-----------|-------------------|
| Overnight | <u>X</u>          |
| 2nd Day   | <u>          </u> |
| Ground    | <u>          </u> |

Comments:

ALS Group USA, Corp.  
www.alsglobal.com  
An ALS Limited Company



# Middletown Sample Condition Form

Client ALS K&L Workorder 3409986

Temp °C 1 Therm ID 352 Ice? (Y) N N/A Initials & Date GBD 4/10/25

Fedex UPS Client ALS Other Tracking # 4359 5957 8190

|  | Yes | No <sup>1</sup> | N/A | Comments             |
|--|-----|-----------------|-----|----------------------|
| Cooler Custody Seals present & intact                          | X   |                 |     |                      |
| Sample Custody Seals present & intact                          |     |                 | X   |                      |
| Chain-of-Custody present                                       | X   |                 |     |                      |
| Sample collector name present                                  |     | X               |     | PM                   |
| <i>If not present, must contact PM/client to request name.</i> |     |                 |     |                      |
| COC/bottle labels complete & in agreement                      |     | X               |     |                      |
| • Sample location  | X   |                 |     |                      |
| • Date and time of sample collection                           | X   |                 |     |                      |
| • Type(s) of preservation                                      |     | X               |     | UC                   |
| • Number of containers   | X   |                 |     |                      |
| • Composite or grab  |     | X               |     |                      |
| • Matrix   | X   |                 |     |                      |
| Proper containers, preservation, and volume per method         | X   |                 |     |                      |
| Received within hold time                                      | X   |                 |     |                      |
| Containers intact  | X   |                 |     |                      |
| Trip blanks present (EPA 504, EPA 524)                         |     |                 | X   |                      |
| Field blanks present (Hg 1631, PFAS)                           |     |                 | X   |                      |
| N/ s 4 Days  |     |                 | X   |                      |
| CR6 Samples Filtered   |     | X               |     | filter not indicated |
| OP Samples Filtered  |     |                 | X   |                      |
| WV Containers 0-6°C  |     |                 | X   |                      |
| SDWA compliance reporting                                      |     |                 | X   |                      |

<sup>1</sup> If No, provide comment

Rad Screen (uCi) \_\_\_\_\_

PM - PM to contact client  
N/A - Not Applicable  
UC - Updated coc with missing information

Review Comments:

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