November 13, 2020 Service Request No:K2009513

Gretchen Heavner
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101

Laboratory Results for: LDW ENR/AC Pilot Study

Dear Gretchen,

Enclosed are the results of the sample(s) submitted to our laboratory October 20, 2020
For your reference, these analyses have been assigned our service request number **K2009513.**

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. 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 3364. You may also contact me via email at howard.holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Howard Holmes
Project Manager

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

Narrative Documents

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

1317 South 13th Ave, Kelso, WA 98626 | 1-360-577-7222 | www.alsglobal.com

Client: Wood E&IS (AMEC Lynnwood)
Project: LDW ENR/AC Pilot Study
Sample Matrix: Sediment

Service Request: K2009513
Date Received: 10/20/2020

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:

Twenty sediment samples were received for analysis at ALS Environmental on 10/20/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

General Chemistry:

Method 9060, 11/06/2020: Sample LDW-Y3-SU-ENR+AC-CD-CORE was received past holding time. The analysis was performed as soon as possible after receipt by the laboratory. The data was flagged to indicate the holding time violation.

Approved by _____ Date 11/13/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: LDW-Y3-SC-ENR-CA-ULM			Lab ID: K2009513-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	0.22			0.10	Percent	9060

CLIENT ID: LDW-Y3-SC-ENR-CC-ULM			Lab ID: K2009513-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	0.43			0.10	Percent	9060

CLIENT ID: LDW-Y3-SC-ENR-CD-ULM			Lab ID: K2009513-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	0.30			0.10	Percent	9060

CLIENT ID: LDW-Y3-SC-ENR+AC-CA-ULM			Lab ID: K2009513-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	2.39			0.10	Percent	9060

CLIENT ID: LDW-Y3-SC-ENR+AC-CB-ULM			Lab ID: K2009513-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	1.79			0.10	Percent	9060

CLIENT ID: LDW-Y3-SC-ENR+AC-CC-ULM			Lab ID: K2009513-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	2.86			0.10	Percent	9060

CLIENT ID: LDW-Y3-SU-ENR+AC-CD-CORE			Lab ID: K2009513-010			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	2.12			0.10	Percent	9060

CLIENT ID: LDW-Y3-SC-ENR-CA-CORE			Lab ID: K2009513-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	1.11			0.10	Percent	9060

CLIENT ID: LDW-Y3-SC-ENR-CC-CORE			Lab ID: K2009513-013			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	1.27			0.10	Percent	9060

CLIENT ID: LDW-Y3-SC-ENR-CD-CORE			Lab ID: K2009513-014			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	1.50			0.10	Percent	9060

CLIENT ID: LDW-Y3-SC-ENR+AC-CA-CORE			Lab ID: K2009513-016			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	2.50			0.10	Percent	9060

CLIENT ID: LDW-Y3-SC-ENR+AC-CB-CORE			Lab ID: K2009513-017			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	2.73			0.10	Percent	9060

SAMPLE DETECTION SUMMARY

CLIENT ID: LDW-Y3-SC-ENR+AC-CC-CORE			Lab ID: K2009513-018			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	2.57			0.10	Percent	9060

Sample Receipt Information

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

Client: Wood E&IS (AMEC Lynnwood) **Service Request:**K2009513
Project: LDW ENR/AC Pilot Study

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K2009513-001	LDW-Y3-SC-ENR-CA-ULM	10/16/2020	1300
K2009513-003	LDW-Y3-SC-ENR-CC-ULM	10/16/2020	1215
K2009513-004	LDW-Y3-SC-ENR-CD-ULM	10/16/2020	1105
K2009513-006	LDW-Y3-SC-ENR+AC-CA-ULM	10/16/2020	1230
K2009513-007	LDW-Y3-SC-ENR+AC-CB-ULM	10/16/2020	1200
K2009513-008	LDW-Y3-SC-ENR+AC-CC-ULM	10/16/2020	1135
K2009513-010	LDW-Y3-SU-ENR+AC-CD-CORE	7/24/2020	1045
K2009513-011	LDW-Y3-SC-ENR-CA-CORE	10/16/2020	1255
K2009513-013	LDW-Y3-SC-ENR-CC-CORE	10/16/2020	1210
K2009513-014	LDW-Y3-SC-ENR-CD-CORE	10/16/2020	1100
K2009513-016	LDW-Y3-SC-ENR+AC-CA-CORE	10/16/2020	1225
K2009513-017	LDW-Y3-SC-ENR+AC-CB-CORE	10/16/2020	1155
K2009513-018	LDW-Y3-SC-ENR+AC-CC-CORE	10/16/2020	1130

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SR# K2009513
PAGE 1 OF 2

Project Name: LDW ENR/AC Pilot Study Project Number: TBD
Project Manager: Cliff Whitmus - see below for POC Company: Wood.
Company/Address: 3500 188th St. SW, Suite 601 Phone: 425-921-4023
City, State, Zip: Lynnwood, WA 98037 E-mail: cliff.whitmus@woodplc.com
Sampler's Signature:

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	TOC - EPA 9060 (duplicate analysis)	MS/Dup				REMARKS
LDW-Y3-SC-ENR-CA-ULM	10/16/20	1300		Sed	1	X					
LDW-Y3-SC-ENR-CB-ULM	10/16/20	1245		Sed	1						hold
LDW-Y3-SC-ENR-CC-ULM	10/16/20	1215		Sed	1	X	X				
LDW-Y3-SC-ENR-CD-ULM	10/16/20	1105		Sed	1	X					
LDW-Y3-SC-ENR-CE-ULM	10/16/20	1050		Sed	1						hold
LDW-Y3-SC-ENR+AC-CA-ULM	10/16/20	1230		Sed	1	X					
LDW-Y3-SC-ENR+AC-CB-ULM	10/16/20	1200		Sed	1	X					
LDW-Y3-SC-ENR+AC-CC-ULM	10/16/20	1135		Sed	1	X					
LDW-Y3-SC-ENR+AC-CE-ULM	10/16/20	1145		Sed	1						hold
LDW-Y3-SU-ENR+AC-CD-CORE	7/24/20	10:45		Sed	1	X					

Analysis Requested

TURNAROUND REQUIREMENTS
____ 24 hr ____ 48 hr ____ 5 day
_X_ Standard (21 days)
____ Provide FAX Preliminary Results
Requested Report Date:

Invoice Information
P.O. #
Bill to: Diane Shannon and Cliff Whitmus at Wood

REPORT REQUIREMENTS
____ I. Routine Report: Results, Method Blank, Surrogate, as required
_x_ II. Report Dup., MS, MSD as required
____ III. Data Validation Report (includes raw data)
____ IV. CLP Deliverable Report
_X_ V. EDD

Comments/Special Instructions:
ALS Quote # 42097
POC: Gretchen Heavner - gretchen.heavner@floydsnider.com #206-292-2078
Invoices: email to diane.shannon@woodplc.com and crystal.thimsen@woodplc.com

Prior to taking a sample aliquot, please mix the sample thoroughly. Then take as large an aliquot as possible (preferrably ~20g) to air dry and grind.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Gretchen Heavner	Signature: JuBaum	Signature: M. Roe	Signature: RMorrow
Printed Name: Gretchen Heavner	Printed Name: Julia Baum	Printed Name: Michelle Roewen	Printed Name: RMorrow
Firm: Floyd Snider	Firm: EcoAnalysts	Firm: EcoAnalysts	Firm: ALS
Date/Time: 10/16/20 1500	Date/Time: 10/16/20 1500	Date/Time: 10/19/20 1200	Date/Time: 10/20/20 1020

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SR# K2009513
PAGE 2 OF 2

Project Name: LDW ENR/AC Pilot Study **Project Number:** TBD
Project Manager: Cliff Whitmus - see below for POC **Company:** Wood.
Company/Address: 3500 188th St. SW, Suite 601 **Phone:** 425-921-4023
City, State, Zip: Lynnwood, WA 98037 **E-mail:** cliff.whitmus@woodplc.com
Sampler's Signature:

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	TOC - EPA 9060 (duplicate analysis)	MS/Dup				REMARKS
LDW-Y3-SC-ENR-CA-CORE	10/16/20	1255		Sed	1	X					
LDW-Y3-SC-ENR-CB-CORE	10/16/20	1240		Sed	1						hold
LDW-Y3-SC-ENR-CC-CORE	10/16/20	1210		Sed	1	X	X				
LDW-Y3-SC-ENR-CD-CORE	10/16/20	1100		Sed	1	X					
LDW-Y3-SC-ENR-CE-CORE	10/16/20	1045		Sed	1						hold
LDW-Y3-SC-ENR+AC-CA-CORE	10/16/20	1225		Sed	1	X					
LDW-Y3-SC-ENR+AC-CB-CORE	10/16/20	1155		Sed	1	X					
LDW-Y3-SC-ENR+AC-CC-CORE	10/16/20	1130		Sed	1	X					
LDW-Y3-SC-ENR+AC-CD-CORE	10/16/20	1035		Sed	1						hold
LDW-Y3-SC-ENR+AC-CE-CORE	10/16/20	1140		Sed	1						hold

Analysis Requested

TURNAROUND REQUIREMENTS
____ 24 hr ____ 48 hr ____ 5 day
_X_ Standard (21 days)
____ Provide FAX Preliminary Results
Requested Report Date:

REPORT REQUIREMENTS
____ I. Routine Report: Results, Method Blank, Surrogate, as required
_X_ II. Report Dup., MS, MSD as required
____ III. Data Validation Report (includes raw data)
____ IV. CLP Deliverable Report
_X_ V. EDD

Comments/Special Instructions:
ALS Quote # 42097
POC: Gretchen Heavner - gretchen.heavner@floydsnider.com #206-292-2078
Invoices: email to diane.shannon@woodplc.com and crystal.thimsen@woodplc.com

Prior to taking a sample aliquot, please mix the sample thoroughly. Then take as large an aliquot as possible (preferrably ~20g) to air dry and grind.

Invoice Information
P.O. #
Bill to: Diane Shannon and Cliff Whitmus at Wood

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Gretchen Heavner	Signature: JuBaum	Signature: [illegible]	Signature: [illegible]
Printed Name: Gretchen Heavner	Printed Name: Julia Baum	Printed Name: Michelle Knowlen	Printed Name: KMorrow
Firm: Floyd Snider	Firm: EcoAnalysts	Firm: EcoAnalysts	Firm: ALS
Date/Time: 10/16/20 1500	Date/Time: 10/16/20 1500	Date/Time: 10/19/20 1200	Date/Time: 10/20/20 1020

PM HH

Cooler Receipt and Preservation Form

Client EcoAnalysts Service Request K20 09513

Received: 10/20/20 Opened: 10/20/20 By: [illegible] Unloaded: 10/20/20 By: [illegible]

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

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

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
N/A	3.7	IR02		—	—	771836651790	

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

Sample ID on Bottle	Sample ID on COC	Identified by:

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

Notes, Discrepancies, Resolutions: Rec'd 1 jar LDW-Y3-ENR+AC-CD-COKE past Hold

Miscellaneous Forms

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

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
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. See case narrative.
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

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

Acronyms

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

Client: Wood E&IS (AMEC Lynnwood) **Service Request:** K2009513
Project: LDW ENR/AC Pilot Study/

Sample Name: LDW-Y3-SC-ENR-CA-ULM **Date Collected:** 10/16/20
Lab Code: K2009513-001 **Date Received:** 10/20/20
Sample Matrix: Sediment

Analysis Method	Extracted/Digested By	Analyzed By
9060	DBRADBURY	DBRADBURY

Sample Name: LDW-Y3-SC-ENR-CC-ULM **Date Collected:** 10/16/20
Lab Code: K2009513-003 **Date Received:** 10/20/20
Sample Matrix: Sediment

Analysis Method	Extracted/Digested By	Analyzed By
9060	DBRADBURY	DBRADBURY

Sample Name: LDW-Y3-SC-ENR-CD-ULM **Date Collected:** 10/16/20
Lab Code: K2009513-004 **Date Received:** 10/20/20
Sample Matrix: Sediment

Analysis Method	Extracted/Digested By	Analyzed By
9060	DBRADBURY	DBRADBURY

Sample Name: LDW-Y3-SC-ENR+AC-CA-ULM **Date Collected:** 10/16/20
Lab Code: K2009513-006 **Date Received:** 10/20/20
Sample Matrix: Sediment

Analysis Method	Extracted/Digested By	Analyzed By
9060	DBRADBURY	DBRADBURY

Sample Name: LDW-Y3-SC-ENR+AC-CB-ULM **Date Collected:** 10/16/20
Lab Code: K2009513-007 **Date Received:** 10/20/20
Sample Matrix: Sediment

Analysis Method	Extracted/Digested By	Analyzed By
9060	DBRADBURY	DBRADBURY

Client: Wood E&IS (AMEC Lynnwood) **Service Request:** K2009513
Project: LDW ENR/AC Pilot Study/

Sample Name: LDW-Y3-SC-ENR+AC-CC-ULM **Date Collected:** 10/16/20
Lab Code: K2009513-008 **Date Received:** 10/20/20
Sample Matrix: Sediment

Analysis Method	Extracted/Digested By	Analyzed By
9060	DBRADBURY	DBRADBURY

Sample Name: LDW-Y3-SU-ENR+AC-CD-CORE **Date Collected:** 07/24/20
Lab Code: K2009513-010 **Date Received:** 10/20/20
Sample Matrix: Sediment

Analysis Method	Extracted/Digested By	Analyzed By
9060	DBRADBURY	DBRADBURY

Sample Name: LDW-Y3-SC-ENR-CA-CORE **Date Collected:** 10/16/20
Lab Code: K2009513-011 **Date Received:** 10/20/20
Sample Matrix: Sediment

Analysis Method	Extracted/Digested By	Analyzed By
9060	DBRADBURY	DBRADBURY

Sample Name: LDW-Y3-SC-ENR-CC-CORE **Date Collected:** 10/16/20
Lab Code: K2009513-013 **Date Received:** 10/20/20
Sample Matrix: Sediment

Analysis Method	Extracted/Digested By	Analyzed By
9060	DBRADBURY	DBRADBURY

Sample Name: LDW-Y3-SC-ENR-CD-CORE **Date Collected:** 10/16/20
Lab Code: K2009513-014 **Date Received:** 10/20/20
Sample Matrix: Sediment

Analysis Method	Extracted/Digested By	Analyzed By
9060	DBRADBURY	DBRADBURY

Client: Wood E&IS (AMEC Lynnwood) **Service Request:** K2009513
Project: LDW ENR/AC Pilot Study/

Sample Name: LDW-Y3-SC-ENR+AC-CA-CORE **Date Collected:** 10/16/20
Lab Code: K2009513-016 **Date Received:** 10/20/20
Sample Matrix: Sediment

Analysis Method	Extracted/Digested By	Analyzed By
9060	DBRADBURY	DBRADBURY

Sample Name: LDW-Y3-SC-ENR+AC-CB-CORE **Date Collected:** 10/16/20
Lab Code: K2009513-017 **Date Received:** 10/20/20
Sample Matrix: Sediment

Analysis Method	Extracted/Digested By	Analyzed By
9060	DBRADBURY	DBRADBURY

Sample Name: LDW-Y3-SC-ENR+AC-CC-CORE **Date Collected:** 10/16/20
Lab Code: K2009513-018 **Date Received:** 10/20/20
Sample Matrix: Sediment

Analysis Method	Extracted/Digested By	Analyzed By
9060	DBRADBURY	DBRADBURY

Sample Results

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General Chemistry

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Analytical Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20 13:00
Sample Matrix:	Sediment	**Date Received:**	10/20/20 10:20
Sample Name:	LDW-Y3-SC-ENR-CA-ULM	**Basis:**	Dry, per Method
Lab Code:	K2009513-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	**0.22**	Percent	0.10	1	11/06/20 11:31	11/05/20	

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20 12:15
Sample Matrix:	Sediment	**Date Received:**	10/20/20 10:20
Sample Name:	LDW-Y3-SC-ENR-CC-ULM	**Basis:**	Dry, per Method
Lab Code:	K2009513-003		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	**0.43**	Percent	0.10	1	11/06/20 11:31	11/05/20	

Analytical Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20 11:05
Sample Matrix:	Sediment	**Date Received:**	10/20/20 10:20
Sample Name:	LDW-Y3-SC-ENR-CD-ULM	**Basis:**	Dry, per Method
Lab Code:	K2009513-004		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	**0.30**	Percent	0.10	1	11/06/20 11:31	11/05/20	

Analytical Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20 12:30
Sample Matrix:	Sediment	**Date Received:**	10/20/20 10:20
Sample Name:	LDW-Y3-SC-ENR+AC-CA-ULM	**Basis:**	Dry, per Method
Lab Code:	K2009513-006		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	**2.39**	Percent	0.10	1	11/06/20 11:31	11/05/20	

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20 12:00
Sample Matrix:	Sediment	**Date Received:**	10/20/20 10:20
Sample Name:	LDW-Y3-SC-ENR+AC-CB-ULM	**Basis:**	Dry, per Method
Lab Code:	K2009513-007		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	**1.79**	Percent	0.10	1	11/06/20 11:31	11/05/20	

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20 11:35
Sample Matrix:	Sediment	**Date Received:**	10/20/20 10:20
Sample Name:	LDW-Y3-SC-ENR+AC-CC-ULM	**Basis:**	Dry, per Method
Lab Code:	K2009513-008		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	**2.86**	Percent	0.10	1	11/06/20 11:31	11/05/20	

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	07/24/20 10:45
Sample Matrix:	Sediment	**Date Received:**	10/20/20 10:20
Sample Name:	LDW-Y3-SU-ENR+AC-CD-CORE	**Basis:**	Dry, per Method
Lab Code:	K2009513-010		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	**2.12**	Percent	0.10	1	11/06/20 11:31	11/05/20	*

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20 12:55
Sample Matrix:	Sediment	**Date Received:**	10/20/20 10:20
Sample Name:	LDW-Y3-SC-ENR-CA-CORE	**Basis:**	Dry, per Method
Lab Code:	K2009513-011		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	**1.11**	Percent	0.10	1	11/06/20 11:31	11/05/20	

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20 12:10
Sample Matrix:	Sediment	**Date Received:**	10/20/20 10:20
Sample Name:	LDW-Y3-SC-ENR-CC-CORE	**Basis:**	Dry, per Method
Lab Code:	K2009513-013		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	**1.27**	Percent	0.10	1	11/06/20 11:31	11/05/20	

Analytical Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20 11:00
Sample Matrix:	Sediment	**Date Received:**	10/20/20 10:20
Sample Name:	LDW-Y3-SC-ENR-CD-CORE	**Basis:**	Dry, per Method
Lab Code:	K2009513-014		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	**1.50**	Percent	0.10	1	11/06/20 11:31	11/05/20	

Analytical Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20 12:25
Sample Matrix:	Sediment	**Date Received:**	10/20/20 10:20
Sample Name:	LDW-Y3-SC-ENR+AC-CA-CORE	**Basis:**	Dry, per Method
Lab Code:	K2009513-016		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	**2.50**	Percent	0.10	1	11/06/20 11:31	11/05/20	

Analytical Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20 11:55
Sample Matrix:	Sediment	**Date Received:**	10/20/20 10:20
Sample Name:	LDW-Y3-SC-ENR+AC-CB-CORE	**Basis:**	Dry, per Method
Lab Code:	K2009513-017		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	**2.73**	Percent	0.10	1	11/06/20 11:31	11/05/20	

Analytical Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20 11:30
Sample Matrix:	Sediment	**Date Received:**	10/20/20 10:20
Sample Name:	LDW-Y3-SC-ENR+AC-CC-CORE	**Basis:**	Dry, per Method
Lab Code:	K2009513-018		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	**2.57**	Percent	0.10	1	11/06/20 11:31	11/05/20	

QC Summary Forms

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Analytical Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	Dry, per Method
Lab Code:	K2009513-MB		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Total Organic (TOC)	9060	ND U	Percent	0.10	1	11/06/20 11:31	11/05/20	

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/6/20
		Date Extracted:	11/5/20

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name:	LDW-Y3-SC-ENR-CC-ULM	**Units:**	Percent
Lab Code:	K2009513-003	**Basis:**	Dry, per Method
Analysis Method:	9060		
Prep Method:	Method		

		Matrix Spike K2009513-003MS			**Duplicate Matrix Spike** K2009513-003DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Carbon, Total Organic (TOC)	0.43	2.87	2.42	101	2.89	2.41	102	70-122	<1	20

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.

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:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/6/20
		Date Extracted:	11/5/20

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name:	LDW-Y3-SC-ENR-CC-CORE	**Units:**	Percent
Lab Code:	K2009513-013	**Basis:**	Dry, per Method
Analysis Method:	9060		
Prep Method:	Method		

		Matrix Spike K2009513-013MS			Duplicate Matrix Spike K2009513-013DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Carbon, Total Organic (TOC)	1.27	3.78	2.42	104	3.78	2.41	104	70-122	<1	20

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/06/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	LDW-Y3-SC-ENR-CA-ULM	**Units:**	Percent
Lab Code:	K2009513-001	**Basis:**	Dry, per Method

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2009513-001DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	0.22	0.21	0.215	5	20

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

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/06/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	LDW-Y3-SC-ENR-CC-ULM	**Units:**	Percent
Lab Code:	K2009513-003	**Basis:**	Dry, per Method

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2009513-003DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	0.43	0.42	0.425	2	20

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

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/06/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	LDW-Y3-SC-ENR-CD-ULM	**Units:**	Percent
Lab Code:	K2009513-004	**Basis:**	Dry, per Method

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2009513-004DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	0.30	0.30	0.300	<1	20

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.

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/06/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	LDW-Y3-SC-ENR+AC-CA-ULM	**Units:**	Percent
Lab Code:	K2009513-006	**Basis:**	Dry, per Method

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2009513-006DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	2.39	2.29	2.34	4	20

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

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/06/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	LDW-Y3-SC-ENR+AC-CB-ULM	**Units:**	Percent
Lab Code:	K2009513-007	**Basis:**	Dry, per Method

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2009513-007DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	1.79	1.90	1.85	6	20

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.

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/06/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	LDW-Y3-SC-ENR+AC-CC-ULM	**Units:**	Percent
Lab Code:	K2009513-008	**Basis:**	Dry, per Method

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2009513-008DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	2.86	2.81	2.84	2	20

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.

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project	LDW ENR/AC Pilot Study	**Date Collected:**	07/24/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/06/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	LDW-Y3-SU-ENR+AC-CD-CORE	**Units:**	Percent
Lab Code:	K2009513-010	**Basis:**	Dry, per Method

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2009513-010DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	2.12	2.10	2.11	<1	20

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.

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/06/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	LDW-Y3-SC-ENR-CA-CORE	**Units:**	Percent
Lab Code:	K2009513-011	**Basis:**	Dry, per Method

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2009513-011DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	1.11	1.26	1.19	13	20

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.

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/06/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	LDW-Y3-SC-ENR-CC-CORE	**Units:**	Percent
Lab Code:	K2009513-013	**Basis:**	Dry, per Method

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2009513-013DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	1.27	1.27	1.27	<1	20

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.

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/06/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	LDW-Y3-SC-ENR-CD-CORE	**Units:**	Percent
Lab Code:	K2009513-014	**Basis:**	Dry, per Method

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2009513-014DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	1.50	1.58	1.54	5	20

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.

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/06/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	LDW-Y3-SC-ENR+AC-CA-CORE	**Units:**	Percent
Lab Code:	K2009513-016	**Basis:**	Dry, per Method

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2009513-016DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	2.50	2.35	2.43	6	20

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.

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/06/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	LDW-Y3-SC-ENR+AC-CB-CORE	**Units:**	Percent
Lab Code:	K2009513-017	**Basis:**	Dry, per Method

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2009513-017DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	2.73	2.53	2.63	8	20

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

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

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QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project	LDW ENR/AC Pilot Study	**Date Collected:**	10/16/20
Sample Matrix:	Sediment	**Date Received:**	10/20/20
		Date Analyzed:	11/06/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	LDW-Y3-SC-ENR+AC-CC-CORE	**Units:**	Percent
Lab Code:	K2009513-018	**Basis:**	Dry, per Method

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2009513-018DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	2.57	2.69	2.63	5	20

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.
dba ALS Environmental

QA/QC Report

Client:	Wood E&IS (AMEC Lynnwood)	**Service Request:**	K2009513
Project:	LDW ENR/AC Pilot Study	**Date Analyzed:**	11/06/20
Sample Matrix:	Sediment	**Date Extracted:**	11/05/20

Lab Control Sample Summary
Carbon, Total Organic (TOC)

Analysis Method:	9060	**Units:**	Percent
Prep Method:	Method	**Basis:**	Dry, per Method
		Analysis Lot:	703247

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K2009513-LCS	0.55	0.51	108	72-122