



06-Jul-2017

John Prusiecki
U.S. Steel - Gary Works
1 North Broadway
Mail Station 70
Gary, IN 46402

Re: **USS Gary CAMU 2Q2017**

Work Order: **17061245**

Dear John,

Revision: **1**

ALS Environmental received 8 samples on 21-Jun-2017 for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 18.

If you have any questions regarding these test results, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Amanda Grzybowski".

Electronically approved by: Amanda Grzybowski

Amanda Grzybowski
Project Manager

Certificate No: MN 998501

Report of Laboratory Analysis

ADDRESS 3352 128th Ave Holland, Michigan 49424 | PHONE (616) 399-6070 | FAX (616) 399-6185

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Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: U.S. Steel - Gary Works
Project: USS Gary CAMU 2Q2017
Work Order: 17061245

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
17061245-01	CAMU-MW08-GW-06212017-F	Aqueous	CAMU-MW08	6/21/2017 11:25	6/21/2017 14:00	<input type="checkbox"/>
17061245-02	CAMU-MW09R-GW-06212017-F	Aqueous	CAMU-MW09R	6/21/2017 10:28	6/21/2017 14:00	<input type="checkbox"/>
17061245-03	CAMU-P05-GW-06212017-F	Aqueous	CAMU-P05	6/21/2017 09:21	6/21/2017 14:00	<input type="checkbox"/>
17061245-04	CAMU-P08-GW-06212017-F	Aqueous	CAMU-P08	6/21/2017 11:20	6/21/2017 14:00	<input type="checkbox"/>
17061245-05	CAMU-P08-GW-06212017-F-FD	Aqueous	CAMU-P08	6/21/2017 11:20	6/21/2017 14:00	<input type="checkbox"/>
17061245-06	CAMU-P09-GW-06212017-F	Aqueous	CAMU-P09	6/21/2017 10:05	6/21/2017 14:00	<input type="checkbox"/>
17061245-07	EB01-06212017-F	Aqueous	EB01	6/21/2017 10:05	6/21/2017 14:00	<input type="checkbox"/>
17061245-08	EB01-06212017-F	Aqueous	EB01	6/21/2017 10:05	6/21/2017 14:00	<input type="checkbox"/>

Client: U.S. Steel - Gary Works
Project: USS Gary CAMU 2Q2017
Work Order: 17061245

Case Narrative

Samples for the above noted Work Order were received on 06/21/2017. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Report revised to correct P-05 sample date in the ID.

ALS Environmental
2400 Cumberland Drive
Valparaiso, IN 46383
(219) 299-8127

The following parameters were received and analyzed at the ALS Valparaiso facility under Florida NELAP certification ID# E871119:

Hexavalent Chromium by SM3500-Cr B / SW846 7196

Sample Receiving:
No deviations or anomalies were noted.

Metals:
No deviations or anomalies were noted.

Wet Chemistry:
Hexavalent Chromium analysis by Method 7196 had the dissolved portion run outside of analytical holding time, samples were initially logged in the total portion and were all non-detect. Both sets of data are reported.

The following parameters were received and analyzed at the ALS Valparaiso facility under Florida NELAP certification ID# E871119:

Client: U.S. Steel - Gary Works
Project: USS Gary CAMU 2Q2017
Work Order: 17061245

Case Narrative

Hexavalent Chromium by SM3500-Cr B / SW846 7196

ALS Group, USA

Date: 06-Jul-17

Client: U.S. Steel - Gary Works

Project: USS Gary CAMU 2Q2017

Sample ID: CAMU-MW08-GW-06212017-F

Collection Date: 6/21/2017 11:25 AM

Work Order: 17061245

Lab ID: 17061245-01

Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS (DISSOLVED)			Method: SW6020A		Prep: SW3005A / 6/26/17		Analyst: RH
Lithium	0.024		0.00037	0.010	mg/L	1	6/26/2017 23:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

AR Page 1 of 8

ALS Group, USA

Date: 06-Jul-17

Client: U.S. Steel - Gary Works
Project: USS Gary CAMU 2Q2017
Sample ID: CAMU-MW09R-GW-06212017-F
Collection Date: 6/21/2017 10:28 AM

Work Order: 17061245
Lab ID: 17061245-02
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
CHROMIUM, HEXAVALENT			Method: SW7196A				Analyst: CD
Chromium, Hexavalent	< 0.0050		0.0020	0.0050	mg/L	1	6/21/2017 14:30
CHROMIUM, HEXAVALENT			Method: SW7196A				Analyst: CD
Chromium, Hexavalent (dissolved)	< 0.0050	H	0.0020	0.0050	mg/L	1	6/26/2017 13:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA**Date:** 06-Jul-17

Client: U.S. Steel - Gary Works
Project: USS Gary CAMU 2Q2017
Sample ID: CAMU-P05-GW-06212017-F
Collection Date: 6/21/2017 09:21 AM

Work Order: 17061245
Lab ID: 17061245-03
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
CHROMIUM, HEXAVALENT			Method: SW7196A				Analyst: CD
Chromium, Hexavalent	< 0.0050		0.0020	0.0050	mg/L	1	6/21/2017 14:30
CHROMIUM, HEXAVALENT			Method: SW7196A				Analyst: CD
Chromium, Hexavalent (dissolved)	< 0.0050	H	0.0020	0.0050	mg/L	1	6/26/2017 13:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA**Date:** 06-Jul-17

Client: U.S. Steel - Gary Works
Project: USS Gary CAMU 2Q2017
Sample ID: CAMU-P08-GW-06212017-F
Collection Date: 6/21/2017 11:20 AM

Work Order: 17061245
Lab ID: 17061245-04
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
CHROMIUM, HEXAVALENT			Method: SW7196A				Analyst: CD
Chromium, Hexavalent	< 0.0050		0.0020	0.0050	mg/L	1	6/21/2017 14:30
CHROMIUM, HEXAVALENT			Method: SW7196A				Analyst: CD
Chromium, Hexavalent (dissolved)	< 0.0050	H	0.0020	0.0050	mg/L	1	6/26/2017 13:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Jul-17

Client: U.S. Steel - Gary Works
Project: USS Gary CAMU 2Q2017
Sample ID: CAMU-P08-GW-06212017-F-FD
Collection Date: 6/21/2017 11:20 AM

Work Order: 17061245
Lab ID: 17061245-05
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
CHROMIUM, HEXAVALENT			Method: SW7196A				Analyst: CD
Chromium, Hexavalent	< 0.0050		0.0020	0.0050	mg/L	1	6/21/2017 14:30
CHROMIUM, HEXAVALENT			Method: SW7196A				Analyst: CD
Chromium, Hexavalent (dissolved)	< 0.0050	H	0.0020	0.0050	mg/L	1	6/26/2017 13:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA**Date:** 06-Jul-17

Client: U.S. Steel - Gary Works
Project: USS Gary CAMU 2Q2017
Sample ID: CAMU-P09-GW-06212017-F
Collection Date: 6/21/2017 10:05 AM

Work Order: 17061245
Lab ID: 17061245-06
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
CHROMIUM, HEXAVALENT			Method: SW7196A				Analyst: CD
Chromium, Hexavalent	< 0.0050		0.0020	0.0050	mg/L	1	6/21/2017 14:30
CHROMIUM, HEXAVALENT			Method: SW7196A				Analyst: CD
Chromium, Hexavalent (dissolved)	< 0.0050	H	0.0020	0.0050	mg/L	1	6/26/2017 13:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA**Date:** 06-Jul-17

Client: U.S. Steel - Gary Works
Project: USS Gary CAMU 2Q2017
Sample ID: EB01-06212017-F
Collection Date: 6/21/2017 10:05 AM

Work Order: 17061245
Lab ID: 17061245-07
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
CHROMIUM, HEXAVALENT			Method: SW7196A				Analyst: CD
Chromium, Hexavalent	< 0.0050		0.0020	0.0050	mg/L	1	6/21/2017 14:30
CHROMIUM, HEXAVALENT			Method: SW7196A				Analyst: CD
Chromium, Hexavalent (dissolved)	< 0.0050	H	0.0020	0.0050	mg/L	1	6/26/2017 13:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Jul-17

Client: U.S. Steel - Gary Works
Project: USS Gary CAMU 2Q2017
Sample ID: EB01-06212017-F
Collection Date: 6/21/2017 10:05 AM

Work Order: 17061245
Lab ID: 17061245-08
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
METALS BY ICP-MS (DISSOLVED)			Method: SW6020A		Prep: SW3005A / 6/26/17		Analyst: RH
Lithium	< 0.010		0.00037	0.010	mg/L	1	6/27/2017 00:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: U.S. Steel - Gary Works
Project: USS Gary CAMU 2Q2017
WorkOrder: 17061245

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

Client: U.S. Steel - Gary Works
Work Order: 17061245
Project: USS Gary CAMU 2Q2017

QC BATCH REPORT

Batch ID: **103715** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK		Sample ID: MBLK-103715-103715				Units: mg/L		Analysis Date: 6/26/2017 10:34 PM			
Client ID:		Run ID: ICPMS2_170626A				SeqNo: 4501314		Prep Date: 6/26/2017		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lithium	U	0.00037	0.010								

LCS		Sample ID: LCS-103715-103715				Units: mg/L		Analysis Date: 6/26/2017 10:39 PM			
Client ID:		Run ID: ICPMS2_170626A				SeqNo: 4501315		Prep Date: 6/26/2017		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lithium	0.1032	0.00037	0.010	0.1	0	103	80-120	0			

MS		Sample ID: 17061363-01AMS				Units: mg/L		Analysis Date: 6/27/2017 12:54 AM			
Client ID:		Run ID: ICPMS2_170626A				SeqNo: 4501340		Prep Date: 6/26/2017		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lithium	0.1117	0.00037	0.010	0.1	0.01557	96.1	75-125	0			

MS		Sample ID: 17061363-06AMS				Units: mg/L		Analysis Date: 6/27/2017 01:57 AM			
Client ID:		Run ID: ICPMS2_170626A				SeqNo: 4501351		Prep Date: 6/26/2017		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lithium	0.09091	0.00037	0.010	0.1	0.003156	87.8	75-125	0			

MSD		Sample ID: 17061363-01AMSD				Units: mg/L		Analysis Date: 6/27/2017 12:59 AM			
Client ID:		Run ID: ICPMS2_170626A				SeqNo: 4501341		Prep Date: 6/26/2017		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lithium	0.1047	0.00037	0.010	0.1	0.01557	89.1	75-125	0.1117	6.47	20	

MSD		Sample ID: 17061363-06AMSD				Units: mg/L		Analysis Date: 6/27/2017 02:02 AM			
Client ID:		Run ID: ICPMS2_170626A				SeqNo: 4501352		Prep Date: 6/26/2017		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lithium	0.09015	0.00037	0.010	0.1	0.003156	87	75-125	0.09091	0.84	20	

The following samples were analyzed in this batch:

17061245-01A	17061245-08A
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Client: U.S. Steel - Gary Works
 Work Order: 17061245
 Project: USS Gary CAMU 2Q2017

QC BATCH REPORT

Batch ID: **R214359** Instrument ID **VAL-WC** Method: **SW7196A**

MBLK		Sample ID: MB-R214359-R214359				Units: mg/L		Analysis Date: 6/21/2017 02:30 PM			
Client ID:		Run ID: VAL-WC_170621C				SeqNo: 4493235		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	U	0.002	0.0050								

LCS		Sample ID: LCS-R214359-R214359				Units: mg/L		Analysis Date: 6/21/2017 02:30 PM			
Client ID:		Run ID: VAL-WC_170621C				SeqNo: 4493236		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.2023	0.002	0.0050	0.2	0	101	85-115	0			

MS		Sample ID: 17061245-03A ms				Units: mg/L		Analysis Date: 6/21/2017 02:30 PM			
Client ID: CAMU-P05-GW-06212017-F		Run ID: VAL-WC_170621C				SeqNo: 4493257		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.1985	0.002	0.0050	0.2	-0.0006	99.6	85-115	0			

MSD		Sample ID: 17061245-03A MSD				Units: mg/L		Analysis Date: 6/21/2017 02:30 PM			
Client ID: CAMU-P05-GW-06212017-F		Run ID: VAL-WC_170621C				SeqNo: 4493258		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.196	0.002	0.0050	0.2	-0.0006	98.3	85-115	0.1985	1.27	20	

The following samples were analyzed in this batch:

17061245-02A	17061245-03A	17061245-04A
17061245-05A	17061245-06A	17061245-07A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC Page: 2 of 3

Client: U.S. Steel - Gary Works
 Work Order: 17061245
 Project: USS Gary CAMU 2Q2017

QC BATCH REPORT

Batch ID: **R214652** Instrument ID **VAL-WC** Method: **SW7196A** (Dissolve)

MBLK		Sample ID: MB-R214652-R214652				Units: mg/L		Analysis Date: 6/26/2017 01:00 PM			
Client ID:		Run ID: VAL-WC_170626D				SeqNo: 4501640		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent (dissol	U	0.002	0.0050								

LCS		Sample ID: LCS-R214652-R214652				Units: mg/L		Analysis Date: 6/26/2017 01:00 PM			
Client ID:		Run ID: VAL-WC_170626D				SeqNo: 4501641		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent (dissol	0.196	0.002	0.0050	0.2	0	98	85-115	0			

MS		Sample ID: 17061245-03A MS				Units: mg/L		Analysis Date: 6/26/2017 01:00 PM			
Client ID: CAMU-P05-GW-06212017-F		Run ID: VAL-WC_170626D				SeqNo: 4501665		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent (dissol	0.1923	0.002	0.0050	0.2	-0.0006	96.4	85-115	0			H

MSD		Sample ID: 17061245-03A MSD				Units: mg/L		Analysis Date: 6/26/2017 01:00 PM			
Client ID: CAMU-P05-GW-06212017-F		Run ID: VAL-WC_170626D				SeqNo: 4501671		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent (dissol	0.1936	0.002	0.0050	0.2	-0.0006	97.1	85-115	0.1923	0.674	20	H

The following samples were analyzed in this batch:

17061245-02A	17061245-03A	17061245-04A
17061245-05A	17061245-06A	17061245-07A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC Page: 3 of 3



ALS Environmental
10450 Standcliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page 1 of 1

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Customer Information				ALS Project Manager:				ALS Work Order #:									
Purchase Order	Project Name	Project Number	Project Information	Parameter/Method Request for Analysis													
Work Order	USS CAMU 202017			6020 Dissolved Lithium													
Company Name	Weaver Consultants Group	Bill To Company	US Steel Corporation	HEXAVALENT CHROMIUM (7196) Dissolved													
Send Report To	Mike Maxwell	Invoice Attn.	Accounts Payable														
Address	35 East Wacker Drive		PO Box 267														
	Suite 1250																
City/State/Zip	Chicago, Illinois, 60601	City/State/Zip	Pittsburgh, PA 15230														
Phone	312-922-1030	Phone															
Fax		Fax															
e-Mail Address	mmmaxwell@wvgrp.com, rstichnoth@wvgrp.com, sbonola@wvgrp.com																
No.	Sample Description	Date	Time	Matrix	Preserv.	# Bottles	A	B	C	D	E	F	G	H	I	J	COMMENT
1	CAMU-MW08-GW-06212017-F	6-21-17	1125	GW	2	1	X										
2																	
3	CAMU-MW09-GW-06212017		1028	GW	5	1		X									
4	CAMU-P05-GW-06212017		0921	GW	5	1		X									
	CAMU-P08-GW-06212017		1120	GW	5	1		X									
6	CAMU-P08-GW-06212017-FD		1120	GW	5	1		X									
7	CAMU-P09-GW-06212017		1005	GW	5	1		X									
8																	
9	EB-01-06212017		1005	DL	2.5	2	X	X									
10																	
Sampler(s): Please Print & Sign Angela Souche James Keete				Shipment Method: ALS COURIER				Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 3 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:					
Relinquished by: <u>Angela Souche</u>				Received by: <u>Bradley</u>				Date: <u>6-21-17</u> Time: <u>1237</u>				Notes: <u>Rec'd 6/23/17 1400</u>					
Relinquished by: <u>Bradley</u>				Received by (Laboratory): <u>Hall</u>				Date: <u>6/21/17</u> Time: <u>1400</u>				QC Package: (Check Box Below) <input type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Raw Data <input type="checkbox"/> TRRP LRC <input type="checkbox"/> TRRP Level IV					
Logged by (Laboratory):				Checked by (Laboratory):				ALS Cooler ID: <u>HN</u>				Cooler Temp: <u>2.1</u>					
								Level IV: SW846 Methods/CLP like				Other:					
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH/ZnAcetate 5-None																	

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

Sample Receipt Checklist

Client Name: USS-GARY

Date/Time Received: 21-Jun-17 00:00

Work Order: 17061245

Received by: JH

Checklist completed by Diane Shaw 23-Jun-17
eSignature Date

Reviewed by: Amanda Przybowski 23-Jun-17
eSignature Date

Matrices: Aqueous

Carrier name: ALSHN

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.1</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>6/21/17 14:00</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:			

Login Notes: Holland - 4.6/4.6 c SR2

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

Revision: 1