



21-Aug-2017

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

Re: **(USS-GARY) CAMU SPRAY 8.16.17**

Work Order: **1708992**

Dear John,

ALS Environmental received 4 samples on 16-Aug-2017 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 14.

If you have any questions regarding this report, 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

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 8.16.17
Work Order: 1708992

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>
1708992-01	CAMU Spray Influent - Grab	Aqueous		8/16/2017 08:53	8/16/2017 10:45	<input type="checkbox"/>
1708992-01	CAMU Spray Influent - Grab	Aqueous		8/16/2017 08:53	8/17/2017 09:30	<input type="checkbox"/>
1708992-02	CAMU Spray Middle - Grab	Aqueous		8/16/2017 08:48	8/16/2017 10:45	<input type="checkbox"/>
1708992-02	CAMU Spray Middle - Grab	Aqueous		8/16/2017 08:48	8/17/2017 09:30	<input type="checkbox"/>
1708992-03	CAMU Spray Effluent - Grab	Aqueous		8/16/2017 08:42	8/16/2017 10:45	<input type="checkbox"/>
1708992-03	CAMU Spray Effluent - Grab	Aqueous		8/16/2017 08:42	8/17/2017 09:30	<input type="checkbox"/>
1708992-04	CAMU Spray Trip Blank	Aqueous		8/16/2017 06:50	8/17/2017 09:30	<input type="checkbox"/>

Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 8.16.17
Work Order: 1708992

Case Narrative

Batch R218104A, Method VOC_8260_W, Sample 1708992-01A MS: The MS recovery was below the lower control limit for Ethylbenzene. . The corresponding result in the parent sample may be biased low.

Batch R218104A, Method VOC_8260_W, Sample 1708992-01A MS: The MS recovery was above the upper control limit for Total Xylenes and Benzene. The corresponding result in the parent sample may be biased high.

Batch R218104A, Method VOC_8260_W, Sample 1708992-01A MSD: The MSD recovery was above the upper control limit for Benzene.. The corresponding result in the parent sample may be biased high.

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:

Ammonia by EPA 350.1 / SM4500-NH3 G

ALS Group, USA

Date: 21-Aug-17

Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 8.16.17
Sample ID: CAMU Spray Influent - Grab
Collection Date: 8/16/2017 08:53 AM

Work Order: 1708992
Lab ID: 1708992-01
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
AMMONIA AS NITROGEN							
			Method: E350.1 R2.0				Analyst: JH
Ammonia as Nitrogen	9.10		0.0980	0.320	mg NH3-N/L	10	8/17/2017 12:46
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B				Analyst: LSY
Benzene	1,700		30	100	µg/L	100	8/18/2017 12:25
Ethylbenzene	29		4.0	10	µg/L	10	8/18/2017 12:58
m,p-Xylene	43		9.8	20	µg/L	10	8/18/2017 12:58
Naphthalene	2,800		18	500	µg/L	100	8/18/2017 12:25
o-Xylene	20		3.5	10	µg/L	10	8/18/2017 12:58
Toluene	33		3.7	10	µg/L	10	8/18/2017 12:58
Xylenes, Total	63		13	30	µg/L	10	8/18/2017 12:58
Surr: 1,2-Dichloroethane-d4	96.2			75-120	%REC	100	8/18/2017 12:25
Surr: 1,2-Dichloroethane-d4	97.5			75-120	%REC	10	8/18/2017 12:58
Surr: 4-Bromofluorobenzene	101			80-110	%REC	100	8/18/2017 12:25
Surr: 4-Bromofluorobenzene	101			80-110	%REC	10	8/18/2017 12:58
Surr: Dibromofluoromethane	96.0			85-115	%REC	100	8/18/2017 12:25
Surr: Dibromofluoromethane	99.0			85-115	%REC	10	8/18/2017 12:58
Surr: Toluene-d8	102			85-110	%REC	100	8/18/2017 12:25
Surr: Toluene-d8	99.2			85-110	%REC	10	8/18/2017 12:58

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

ALS Group, USA

Date: 21-Aug-17

Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 8.16.17
Sample ID: CAMU Spray Middle - Grab
Collection Date: 8/16/2017 08:48 AM

Work Order: 1708992
Lab ID: 1708992-02
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
AMMONIA AS NITROGEN							
			Method: E350.1 R2.0				Analyst: JH
Ammonia as Nitrogen	9.06		0.0980	0.320	mg NH3-N/L	10	8/17/2017 12:47
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B				Analyst: LSY
Benzene	< 1.0		0.30	1.0	µg/L	1	8/18/2017 12:41
Ethylbenzene	< 1.0		0.40	1.0	µg/L	1	8/18/2017 12:41
m,p-Xylene	< 2.0		0.98	2.0	µg/L	1	8/18/2017 12:41
Naphthalene	0.74	J	0.18	5.0	µg/L	1	8/18/2017 12:41
o-Xylene	< 1.0		0.35	1.0	µg/L	1	8/18/2017 12:41
Toluene	< 1.0		0.37	1.0	µg/L	1	8/18/2017 12:41
Xylenes, Total	< 3.0		1.3	3.0	µg/L	1	8/18/2017 12:41
Surr: 1,2-Dichloroethane-d4	98.6			75-120	%REC	1	8/18/2017 12:41
Surr: 4-Bromofluorobenzene	98.4			80-110	%REC	1	8/18/2017 12:41
Surr: Dibromofluoromethane	99.8			85-115	%REC	1	8/18/2017 12:41
Surr: Toluene-d8	101			85-110	%REC	1	8/18/2017 12:41

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

ALS Group, USA

Date: 21-Aug-17

Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 8.16.17
Sample ID: CAMU Spray Effluent - Grab
Collection Date: 8/16/2017 08:42 AM

Work Order: 1708992
Lab ID: 1708992-03
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
AMMONIA AS NITROGEN							
			Method: E350.1 R2.0				Analyst: JH
Ammonia as Nitrogen	9.11		0.0980	0.320	mg NH3-N/L	10	8/17/2017 12:48
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B				Analyst: AK
Benzene	< 1.0		0.30	1.0	µg/L	1	8/17/2017 15:20
Ethylbenzene	< 1.0		0.40	1.0	µg/L	1	8/17/2017 15:20
m,p-Xylene	< 2.0		0.98	2.0	µg/L	1	8/17/2017 15:20
Naphthalene	< 5.0		0.18	5.0	µg/L	1	8/17/2017 15:20
o-Xylene	< 1.0		0.35	1.0	µg/L	1	8/17/2017 15:20
Toluene	< 1.0		0.37	1.0	µg/L	1	8/17/2017 15:20
Xylenes, Total	< 3.0		1.3	3.0	µg/L	1	8/17/2017 15:20
Surr: 1,2-Dichloroethane-d4	95.7			75-120	%REC	1	8/17/2017 15:20
Surr: 4-Bromofluorobenzene	101			80-110	%REC	1	8/17/2017 15:20
Surr: Dibromofluoromethane	98.4			85-115	%REC	1	8/17/2017 15:20
Surr: Toluene-d8	96.0			85-110	%REC	1	8/17/2017 15:20

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

ALS Group, USA

Date: 21-Aug-17

Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 8.16.17
Sample ID: CAMU Spray Trip Blank
Collection Date: 8/16/2017 06:50 AM

Work Order: 1708992
Lab ID: 1708992-04
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: AK	
Benzene	< 1.0		0.30	1.0	µg/L	1	8/17/2017 14:54
Ethylbenzene	< 1.0		0.40	1.0	µg/L	1	8/17/2017 14:54
m,p-Xylene	< 2.0		0.98	2.0	µg/L	1	8/17/2017 14:54
Naphthalene	< 5.0		0.18	5.0	µg/L	1	8/17/2017 14:54
o-Xylene	< 1.0		0.35	1.0	µg/L	1	8/17/2017 14:54
Toluene	< 1.0		0.37	1.0	µg/L	1	8/17/2017 14:54
Xylenes, Total	< 3.0		1.3	3.0	µg/L	1	8/17/2017 14:54
Surr: 1,2-Dichloroethane-d4	91.3			75-120	%REC	1	8/17/2017 14:54
Surr: 4-Bromofluorobenzene	97.2			80-110	%REC	1	8/17/2017 14:54
Surr: Dibromofluoromethane	92.3			85-115	%REC	1	8/17/2017 14:54
Surr: Toluene-d8	99.0			85-110	%REC	1	8/17/2017 14:54

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

Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 8.16.17
WorkOrder: 1708992

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>
µg/L	Micrograms per Liter
mg NH3-N/L	Milligrams Ammonia-Nitrogen per Liter

Client: U.S. Steel - Gary Works

Work Order: 1708992

Project: (USS-GARY) CAMU SPRAY 8.16.17

QC BATCH REPORT

Batch ID: **R218036** Instrument ID **VAL-LACHAT** Method: **E350.1 R2.0**

MBLK	Sample ID: MBLK-R218036					Units: mg NH3-N/L		Analysis Date: 8/17/2017 12:44 PM		
Client ID:	Run ID: VAL-LACHAT_170817A				SeqNo: 4588718		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen U 0.032

LCS	Sample ID: LCS-R218036					Units: mg NH3-N/L		Analysis Date: 8/17/2017 12:45 PM		
Client ID:	Run ID: VAL-LACHAT_170817A				SeqNo: 4588719		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.1934 0.032 0.2 0 96.7 90-110 0

MS	Sample ID: 17081147-02A MS					Units: mg NH3-N/L		Analysis Date: 8/17/2017 01:05 PM		
Client ID:	Run ID: VAL-LACHAT_170817A				SeqNo: 4588736		Prep Date:		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 31.98 1.6 10 23.35 86.2 90-110 0 S

MS	Sample ID: 1708973-09B MS					Units: mg NH3-N/L		Analysis Date: 8/17/2017 01:15 PM		
Client ID:	Run ID: VAL-LACHAT_170817A				SeqNo: 4588744		Prep Date:		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 1.054 0.16 1 0.1025 95.2 90-110 0

MSD	Sample ID: 17081147-02A MSD					Units: mg NH3-N/L		Analysis Date: 8/17/2017 01:06 PM		
Client ID:	Run ID: VAL-LACHAT_170817A				SeqNo: 4588737		Prep Date:		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 32.02 1.6 10 23.35 86.7 90-110 31.98 0.141 20 S

MSD	Sample ID: 1708973-09B MSD					Units: mg NH3-N/L		Analysis Date: 8/17/2017 01:16 PM		
Client ID:	Run ID: VAL-LACHAT_170817A				SeqNo: 4588745		Prep Date:		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 1.058 0.16 1 0.1025 95.6 90-110 1.054 0.379 20

The following samples were analyzed in this batch:

1708992-01B 1708992-02B 1708992-03B

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

Client: U.S. Steel - Gary Works
 Work Order: 1708992
 Project: (USS-GARY) CAMU SPRAY 8.16.17

QC BATCH REPORT

Batch ID: **R218028A** Instrument ID **VMS5** Method: **SW8260B**

MBLK				Sample ID: VBLKW1-170817-R218028A				Units: µg/L		Analysis Date: 8/17/2017 02:01 PM			
Client ID:				Run ID: VMS5_170817A				SeqNo: 4591318		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Benzene	U	1.0											
Ethylbenzene	U	1.0											
m,p-Xylene	U	2.0											
Naphthalene	U	5.0											
o-Xylene	U	1.0											
Toluene	U	1.0											
Xylenes, Total	U	3.0											
Surr: 1,2-Dichloroethane-d4	18.79	0	20	0	94	75-120		0					
Surr: 4-Bromofluorobenzene	19.5	0	20	0	97.5	80-110		0					
Surr: Dibromofluoromethane	19.23	0	20	0	96.2	85-115		0					
Surr: Toluene-d8	19.34	0	20	0	96.7	85-110		0					

LCS				Sample ID: VLCSW1-170817-R218028A				Units: µg/L		Analysis Date: 8/17/2017 01:09 PM	
Client ID:			Run ID: VMS5_170817A			SeqNo: 4591317		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	19.23	1.0	20	0	96.2	85-125	0				
Ethylbenzene	18.58	1.0	20	0	92.9	85-125	0				
m,p-Xylene	37.48	2.0	40	0	93.7	75-130	0				
Naphthalene	18.56	5.0	20	0	92.8	55-160	0				
o-Xylene	18.71	1.0	20	0	93.6	80-125	0				
Toluene	18.68	1.0	20	0	93.4	85-125	0				
Xylenes, Total	56.19	3.0	60	0	93.6	80-126	0				
Surr: 1,2-Dichloroethane-d4	19.02	0	20	0	95.1	75-120	0				
Surr: 4-Bromofluorobenzene	20.4	0	20	0	102	80-110	0				
Surr: Dibromofluoromethane	19.58	0	20	0	97.9	85-115	0				
Surr: Toluene-d8	19.91	0	20	0	99.6	85-110	0				

The following samples were analyzed in this batch:

1708992-02A	1708992-03A	1708992-04A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: U.S. Steel - Gary Works
 Work Order: 1708992
 Project: (USS-GARY) CAMU SPRAY 8.16.17

QC BATCH REPORT

Batch ID: **R218104A** Instrument ID **VMS8** Method: **SW8260B**

MBLK		Sample ID: VLKW1-170818-R218104A				Units: µg/L		Analysis Date: 8/18/2017 11:31 AM		
Client ID:		Run ID: VMS8_170818A				SeqNo: 4591512		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Ethylbenzene	U	1.0								
m,p-Xylene	U	2.0								
Naphthalene	U	5.0								
o-Xylene	U	1.0								
Toluene	U	1.0								
Xylenes, Total	U	3.0								
Surr: 1,2-Dichloroethane-d4	19.58	0	20	0	97.9	75-120	0			
Surr: 4-Bromofluorobenzene	19.05	0	20	0	95.2	80-110	0			
Surr: Dibromofluoromethane	19.95	0	20	0	99.8	85-115	0			
Surr: Toluene-d8	19.88	0	20	0	99.4	85-110	0			

LCS		Sample ID: VLCSW1-170818-R218104A				Units: µg/L		Analysis Date: 8/18/2017 10:43 AM		
Client ID:		Run ID: VMS8_170818A				SeqNo: 4591511		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.19	1.0	20	0	96	85-125	0			
Ethylbenzene	18.11	1.0	20	0	90.6	85-125	0			
m,p-Xylene	36.54	2.0	40	0	91.4	75-130	0			
Naphthalene	15.74	5.0	20	0	78.7	55-160	0			
o-Xylene	18.22	1.0	20	0	91.1	80-125	0			
Toluene	18.29	1.0	20	0	91.4	85-125	0			
Xylenes, Total	54.76	3.0	60	0	91.3	80-126	0			
Surr: 1,2-Dichloroethane-d4	19.77	0	20	0	98.8	75-120	0			
Surr: 4-Bromofluorobenzene	20.14	0	20	0	101	80-110	0			
Surr: Dibromofluoromethane	19.67	0	20	0	98.4	85-115	0			
Surr: Toluene-d8	19.63	0	20	0	98.2	85-110	0			

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

Client: U.S. Steel - Gary Works
 Work Order: 1708992
 Project: (USS-GARY) CAMU SPRAY 8.16.17

QC BATCH REPORT

Batch ID: **R218104A** Instrument ID **VMS8** Method: **SW8260B**

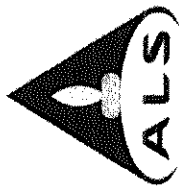
MS				Sample ID: 1708992-01A MS			Units: µg/L		Analysis Date: 8/18/2017 06:47 PM	
Client ID: CAMU Spray Influent - Grab				Run ID: VMS8_170818A			SeqNo: 4592185		Prep Date:	
									DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	3209	100	2000	1696	75.6	85-125	0			S
Ethylbenzene	1595	100	2000	29.4	78.3	85-125	0			S
m,p-Xylene	3231	200	4000	42.7	79.7	75-130	0			
Naphthalene	4130	500	2000	2670	73	55-160	0			
o-Xylene	1599	100	2000	20.4	78.9	80-125	0			S
Toluene	1623	100	2000	32.8	79.5	85-125	0			S
Xylenes, Total	4830	300	6000	63.1	79.4	80-126	0			S
Surr: 1,2-Dichloroethane-d4	1969	0	2000	0	98.4	75-120	0			
Surr: 4-Bromofluorobenzene	1966	0	2000	0	98.3	80-110	0			
Surr: Dibromofluoromethane	2015	0	2000	0	101	85-115	0			
Surr: Toluene-d8	1985	0	2000	0	99.2	85-110	0			

MSD				Sample ID: 1708992-01A MSD			Units: µg/L		Analysis Date: 8/18/2017 07:03 PM	
Client ID: CAMU Spray Influent - Grab				Run ID: VMS8_170818A			SeqNo: 4592186		Prep Date:	
									DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	3273	100	2000	1696	78.8	85-125	3209	1.97	30	S
Ethylbenzene	1754	100	2000	29.4	86.2	85-125	1595	9.5	30	
m,p-Xylene	3557	200	4000	42.7	87.9	75-130	3231	9.61	30	
Naphthalene	4281	500	2000	2670	80.5	55-160	4130	3.59	30	
o-Xylene	1762	100	2000	20.4	87.1	80-125	1599	9.7	30	
Toluene	1766	100	2000	32.8	86.7	85-125	1623	8.44	30	
Xylenes, Total	5319	300	6000	63.1	87.6	80-126	4830	9.64	30	
Surr: 1,2-Dichloroethane-d4	1895	0	2000	0	94.8	75-120	1969	3.83	30	
Surr: 4-Bromofluorobenzene	2044	0	2000	0	102	80-110	1966	3.89	30	
Surr: Dibromofluoromethane	1980	0	2000	0	99	85-115	2015	1.75	30	
Surr: Toluene-d8	1995	0	2000	0	99.8	85-110	1985	0.503	30	

The following samples were analyzed in this batch:

1708992-01A 1708992-02A

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



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				Project Information				ALS Project Manager: Amanda Grzybowski				ALS Work Order #: 1708992					
Purchase Order		Project Name		Project Number		BTEX 8260B, Naphthalene 8260B		Parameter/Method Request for Analysis									
Work Order		Project Name		Project Number		BTEX 8260B, Naphthalene 8260B		Parameter/Method Request for Analysis									
Company Name		USS		USS		USS		USS									
Send Report To		John Prusiecki		Invoice Attn.		Invoice Attn.		Invoice Attn.									
Address		Address		Address		Address		Address									
City/State/Zip		City/State/Zip		City/State/Zip		City/State/Zip		City/State/Zip									
Phone		Phone		Phone		Phone		Phone									
Fax		Fax		Fax		Fax		Fax									
e-Mail Address		e-Mail Address		e-Mail Address		e-Mail Address		e-Mail Address									
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CAMU Spray Influent [Grab]	8/16/17	0853	AQ	1	3	X										
2	CAMU Spray Influent [Grab]	8/16/17	0853	AQ	3	1		X									
3																	
4	CAMU Spray Middle [Grab]	8/16/17	0848	AQ	1	3	X										
5	CAMU Spray Middle [Grab]	8/16/17	0848	AQ	3	1		X									
6																	
7	CAMU Spray Effluent [Grab]	8/16/17	0842	AQ	1	3	X										
8	CAMU Spray Effluent [Grab]	8/16/17	0842	AQ	3	1		X									
9																	
10	CAMU Spray Trip Blank	8/16/17	0650	AQ	1	1	X										
11																	
12																	
13																	
14																	
15																	

Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time: (Check Box)		Results Due Date:	
Relinquished by:	Date:	Relinquished by:	Date:	10 Wk Days	5 Wk Days	24 Hour	
<i>[Signature]</i>	8/16/17	<i>[Signature]</i>	8/16/17	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Relinquished by:	Date:	Relinquished by:	Date:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>[Signature]</i>	8/16/17	<i>[Signature]</i>	8/16/17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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<i>[Signature]</i>	8/16/17	<i>[Signature]</i>	8/16/17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Relinquished by:							

ALS Group, USA

Sample Receipt Checklist

Client Name: **USS-GARY**

Date/Time Received: **16-Aug-17 00:00**

Work Order: **1708992**

Received by: **JH**

Checklist completed by Diane Shaw 17-Aug-17
eSignature Date

Reviewed by: Amanda Przybowski 17-Aug-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>1.7</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>8/16/17 10:45Ho</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input 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 - 2.4/2.4 c SR2**

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: