



11-Jul-2017

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

Re: **(USS-GARY) CAMU SPRAY 7.7.17**

Work Order: **1707231**

Dear John,

ALS Environmental received 4 samples on 07-Jul-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 15.

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

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Environmental 

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Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 7.7.17
Work Order: 1707231

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> |
|--------------------|----------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1707231-01 | CAMU Spray Influent - Grab | Aqueous | | 7/7/2017 08:32 | 7/7/2017 10:50 | <input type="checkbox"/> |
| 1707231-01 | CAMU Spray Influent - Grab | Aqueous | | 7/7/2017 08:32 | 7/7/2017 14:00 | <input type="checkbox"/> |
| 1707231-02 | CAMU Spray Middle - Grab | Aqueous | | 7/7/2017 08:30 | 7/7/2017 10:50 | <input type="checkbox"/> |
| 1707231-02 | CAMU Spray Middle - Grab | Aqueous | | 7/7/2017 08:30 | 7/7/2017 14:00 | <input type="checkbox"/> |
| 1707231-03 | CAMU Spray Effluent - Grab | Aqueous | | 7/7/2017 08:28 | 7/7/2017 10:50 | <input type="checkbox"/> |
| 1707231-03 | CAMU Spray Effluent - Grab | Aqueous | | 7/7/2017 08:28 | 7/7/2017 14:00 | <input type="checkbox"/> |
| 1707231-04 | CAMU Spray Trip Blank | Aqueous | | 7/7/2017 07:00 | 7/7/2017 14:00 | <input type="checkbox"/> |

ALS Group, USA

Date: 11-Jul-17

Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 7.7.17
Work Order: 1707231

Case Narrative

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: 11-Jul-17

Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 7.7.17
Sample ID: CAMU Spray Influent - Grab
Collection Date: 7/7/2017 08:32 AM

Work Order: 1707231
Lab ID: 1707231-01
Matrix: AQUEOUS

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|--------|------|---------------------|--------------|------------|-----------------|---------------------|
| AMMONIA AS NITROGEN | | | | | | | |
| | | | Method: E350.1 R2.0 | | | | Analyst: CD |
| Ammonia as Nitrogen | 11.7 | | 0.0400 | 0.320 | mg NH3-N/L | 10 | 7/7/2017 11:33 |
| VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| | | | Method: SW8260B | | | | Analyst: LSY |
| Benzene | 2,300 | | 30 | 100 | µg/L | 100 | 7/10/2017 15:17 |
| Ethylbenzene | 28 | | 8.1 | 20 | µg/L | 20 | 7/10/2017 12:15 |
| m,p-Xylene | 40 | | 20 | 40 | µg/L | 20 | 7/10/2017 12:15 |
| Naphthalene | 2,700 | | 18 | 500 | µg/L | 100 | 7/10/2017 15:17 |
| o-Xylene | 20 | | 7.1 | 20 | µg/L | 20 | 7/10/2017 12:15 |
| Toluene | 46 | | 7.3 | 20 | µg/L | 20 | 7/10/2017 12:15 |
| Xylenes, Total | 61 | | 27 | 60 | µg/L | 20 | 7/10/2017 12:15 |
| Surr: 1,2-Dichloroethane-d4 | 100 | | | 75-120 | %REC | 20 | 7/10/2017 12:15 |
| Surr: 1,2-Dichloroethane-d4 | 100 | | | 75-120 | %REC | 100 | 7/10/2017 15:17 |
| Surr: 4-Bromofluorobenzene | 95.5 | | | 80-110 | %REC | 20 | 7/10/2017 12:15 |
| Surr: 4-Bromofluorobenzene | 91.6 | | | 80-110 | %REC | 100 | 7/10/2017 15:17 |
| Surr: Dibromofluoromethane | 105 | | | 85-115 | %REC | 20 | 7/10/2017 12:15 |
| Surr: Dibromofluoromethane | 101 | | | 85-115 | %REC | 100 | 7/10/2017 15:17 |
| Surr: Toluene-d8 | 96.0 | | | 85-110 | %REC | 20 | 7/10/2017 12:15 |
| Surr: Toluene-d8 | 95.4 | | | 85-110 | %REC | 100 | 7/10/2017 15:17 |

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

ALS Group, USA

Date: 11-Jul-17

Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 7.7.17
Sample ID: CAMU Spray Middle - Grab
Collection Date: 7/7/2017 08:30 AM

Work Order: 1707231
Lab ID: 1707231-02
Matrix: AQUEOUS

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|--------|------|---------------------|--------------|------------|-----------------|---------------------|
| AMMONIA AS NITROGEN | | | | | | | |
| | | | Method: E350.1 R2.0 | | | | Analyst: CD |
| Ammonia as Nitrogen | 11.5 | | 0.0400 | 0.320 | mg NH3-N/L | 10 | 7/7/2017 11:34 |
| VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| | | | Method: SW8260B | | | | Analyst: LSY |
| Benzene | 0.41 | J | 0.30 | 1.0 | µg/L | 1 | 7/10/2017 14:25 |
| Ethylbenzene | < 1.0 | | 0.40 | 1.0 | µg/L | 1 | 7/10/2017 14:25 |
| m,p-Xylene | < 2.0 | | 0.98 | 2.0 | µg/L | 1 | 7/10/2017 14:25 |
| Naphthalene | < 5.0 | | 0.18 | 5.0 | µg/L | 1 | 7/10/2017 14:25 |
| o-Xylene | < 1.0 | | 0.35 | 1.0 | µg/L | 1 | 7/10/2017 14:25 |
| Toluene | < 1.0 | | 0.37 | 1.0 | µg/L | 1 | 7/10/2017 14:25 |
| Xylenes, Total | < 3.0 | | 1.3 | 3.0 | µg/L | 1 | 7/10/2017 14:25 |
| Surr: 1,2-Dichloroethane-d4 | 106 | | | 75-120 | %REC | 1 | 7/10/2017 14:25 |
| Surr: 4-Bromofluorobenzene | 93.8 | | | 80-110 | %REC | 1 | 7/10/2017 14:25 |
| Surr: Dibromofluoromethane | 103 | | | 85-115 | %REC | 1 | 7/10/2017 14:25 |
| Surr: Toluene-d8 | 94.3 | | | 85-110 | %REC | 1 | 7/10/2017 14:25 |

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

ALS Group, USA

Date: 11-Jul-17

Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 7.7.17
Sample ID: CAMU Spray Effluent - Grab
Collection Date: 7/7/2017 08:28 AM

Work Order: 1707231
Lab ID: 1707231-03
Matrix: AQUEOUS

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|--------|------|---------------------|--------------|------------|-----------------|---------------------|
| <hr/> | | | | | | | |
| AMMONIA AS NITROGEN | | | Method: E350.1 R2.0 | | | | Analyst: CD |
| Ammonia as Nitrogen | 11.4 | | 0.0400 | 0.320 | mg NH3-N/L | 10 | 7/7/2017 11:35 |
| VOLATILE ORGANIC COMPOUNDS | | | Method: SW8260B | | | | Analyst: LSY |
| Benzene | < 1.0 | | 0.30 | 1.0 | µg/L | 1 | 7/10/2017 14:51 |
| Ethylbenzene | < 1.0 | | 0.40 | 1.0 | µg/L | 1 | 7/10/2017 14:51 |
| m,p-Xylene | < 2.0 | | 0.98 | 2.0 | µg/L | 1 | 7/10/2017 14:51 |
| Naphthalene | < 5.0 | | 0.18 | 5.0 | µg/L | 1 | 7/10/2017 14:51 |
| o-Xylene | < 1.0 | | 0.35 | 1.0 | µg/L | 1 | 7/10/2017 14:51 |
| Toluene | < 1.0 | | 0.37 | 1.0 | µg/L | 1 | 7/10/2017 14:51 |
| Xylenes, Total | < 3.0 | | 1.3 | 3.0 | µg/L | 1 | 7/10/2017 14:51 |
| Surr: 1,2-Dichloroethane-d4 | 101 | | | 75-120 | %REC | 1 | 7/10/2017 14:51 |
| Surr: 4-Bromofluorobenzene | 90.6 | | | 80-110 | %REC | 1 | 7/10/2017 14:51 |
| Surr: Dibromofluoromethane | 108 | | | 85-115 | %REC | 1 | 7/10/2017 14:51 |
| Surr: Toluene-d8 | 105 | | | 85-110 | %REC | 1 | 7/10/2017 14:51 |

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

ALS Group, USA

Date: 11-Jul-17

Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 7.7.17
Sample ID: CAMU Spray Trip Blank
Collection Date: 7/7/2017 07:00 AM

Work Order: 1707231
Lab ID: 1707231-04
Matrix: AQUEOUS

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|--------|------|------------------------|-----------------|-------|--------------------|----------------|
| VOLATILE ORGANIC COMPOUNDS | | | Method: SW8260B | | | Analyst: WH | |
| Benzene | < 1.0 | | 0.30 | 1.0 | µg/L | 1 | 7/7/2017 18:42 |
| Ethylbenzene | < 1.0 | | 0.40 | 1.0 | µg/L | 1 | 7/7/2017 18:42 |
| m,p-Xylene | < 2.0 | | 0.98 | 2.0 | µg/L | 1 | 7/7/2017 18:42 |
| Naphthalene | < 5.0 | | 0.18 | 5.0 | µg/L | 1 | 7/7/2017 18:42 |
| o-Xylene | < 1.0 | | 0.35 | 1.0 | µg/L | 1 | 7/7/2017 18:42 |
| Toluene | < 1.0 | | 0.37 | 1.0 | µg/L | 1 | 7/7/2017 18:42 |
| Xylenes, Total | < 3.0 | | 1.3 | 3.0 | µg/L | 1 | 7/7/2017 18:42 |
| Surr: 1,2-Dichloroethane-d4 | 101 | | | 75-120 | %REC | 1 | 7/7/2017 18:42 |
| Surr: 4-Bromofluorobenzene | 92.6 | | | 80-110 | %REC | 1 | 7/7/2017 18:42 |
| Surr: Dibromofluoromethane | 97.2 | | | 85-115 | %REC | 1 | 7/7/2017 18:42 |
| Surr: Toluene-d8 | 101 | | | 85-110 | %REC | 1 | 7/7/2017 18:42 |

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

Client: U.S. Steel - Gary Works
Project: (USS-GARY) CAMU SPRAY 7.7.17
WorkOrder: 1707231

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: 1707231

Project: (USS-GARY) CAMU SPRAY 7.7.17

QC BATCH REPORT

Batch ID: **R215400** Instrument ID **VAL-LACHAT** Method: **E350.1 R2.0**

| | | | | | | | | | | |
|-------------|--------|-----------------------------------|---------|---------------|------|--------------------------|---------------|---|-----------|--------------|
| MBLK | | Sample ID: MBLK-R215400 | | | | Units: mg NH3-N/L | | Analysis Date: 7/7/2017 11:30 AM | | |
| Client ID: | | Run ID: VAL-LACHAT_170707A | | | | SeqNo: 4522205 | | 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

| | | | | | | | | | | |
|-------------|--------|-----------------------------------|---------|---------------|------|--------------------------|---------------|---|-----------|--------------|
| MBLK | | Sample ID: MBLK-R215400 | | | | Units: mg NH3-N/L | | Analysis Date: 7/7/2017 12:06 PM | | |
| Client ID: | | Run ID: VAL-LACHAT_170707A | | | | SeqNo: 4522235 | | 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-R215400 | | | | Units: mg NH3-N/L | | Analysis Date: 7/7/2017 11:31 AM | | |
| Client ID: | | Run ID: VAL-LACHAT_170707A | | | | SeqNo: 4522206 | | 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 0.1949 0.032 0.2 0 97.4 90-110 0

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|---------------|------|--------------------------|---------------|---|-----------|--------------|
| LCS | | Sample ID: LCS-R215400 | | | | Units: mg NH3-N/L | | Analysis Date: 7/7/2017 12:07 PM | | |
| Client ID: | | Run ID: VAL-LACHAT_170707A | | | | SeqNo: 4522236 | | 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 0.1979 0.032 0.2 0 99 90-110 0

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|---------------|------|--------------------------|---------------|---|-----------|--------------|
| MS | | Sample ID: 1707071-03A MS | | | | Units: mg NH3-N/L | | Analysis Date: 7/7/2017 11:46 AM | | |
| Client ID: | | Run ID: VAL-LACHAT_170707A | | | | SeqNo: 4522218 | | 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 0.2299 0.032 0.2 0.0531 88.4 90-110 0 S

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|---------------|------|--------------------------|---------------|---|-----------|--------------|
| MS | | Sample ID: 1707073-09B MS | | | | Units: mg NH3-N/L | | Analysis Date: 7/7/2017 11:52 AM | | |
| Client ID: | | Run ID: VAL-LACHAT_170707A | | | | SeqNo: 4522223 | | 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 0.2101 0.032 0.2 0.0347 87.7 90-110 0 S

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|---------------|------|--------------------------|---------------|---|-----------|--------------|
| MS | | Sample ID: 1707222-09B MS | | | | Units: mg NH3-N/L | | Analysis Date: 7/7/2017 12:18 PM | | |
| Client ID: | | Run ID: VAL-LACHAT_170707A | | | | SeqNo: 4522245 | | 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 0.2433 0.032 0.2 0.064 89.6 90-110 0 S

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

Client: U.S. Steel - Gary Works
Work Order: 1707231
Project: (USS-GARY) CAMU SPRAY 7.7.17

QC BATCH REPORT

Batch ID: **R215400** Instrument ID **VAL-LACHAT** Method: **E350.1 R2.0**

| | | | | | | | | | | | | | | |
|------------|--|--------|-----|----------------------------|---------------|------|---------------|-------------------|------|-----------|----------------------------------|--|-------|--|
| MSD | | | | Sample ID: 1707071-03A MSD | | | | Units: mg NH3-N/L | | | Analysis Date: 7/7/2017 11:47 AM | | | |
| Client ID: | | | | Run ID: VAL-LACHAT_170707A | | | | SeqNo: 4522219 | | | 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 | 0.2288 | 0.032 | 0.2 | 0.0531 | 87.8 | 90-110 | 0.2299 | 0.48 | 20 | S |
|---------------------|--------|-------|-----|--------|------|--------|--------|------|----|---|

| | | | | | | | | | | | |
|------------|--------|----------------------------|----------------------------|---------------|------|----------------|-------------------|------------|----------------------------------|-------|--|
| MSD | | Sample ID: 1707073-09B MSD | | | | | Units: mg NH3-N/L | | Analysis Date: 7/7/2017 11:53 AM | | |
| Client ID: | | | Run ID: VAL-LACHAT_170707A | | | SeqNo: 4522224 | | 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 | 0.2123 | 0.032 | 0.2 | 0.0347 | 88.8 | 90-110 | 0.2101 | 1.04 | 20 | S |
|---------------------|--------|-------|-----|--------|------|--------|--------|------|----|---|

| | | | | | | | | | | | |
|------------|--------|----------------------------|---------|---------------|----------------|---------------|-------------------|------|----------------------------------|------|--|
| MSD | | Sample ID: 1707222-09B MSD | | | | | Units: mg NH3-N/L | | Analysis Date: 7/7/2017 12:19 PM | | |
| Client ID: | | Run ID: VAL-LACHAT_170707A | | | SeqNo: 4522246 | | 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 | 0.2414 | 0.032 | 0.2 | 0.064 | 88.7 | 90-110 | 0.2433 | 0.784 | 20 | S |
|---------------------|--------|-------|-----|-------|------|--------|--------|-------|----|---|

The following samples were analyzed in this batch:

| | | |
|-------------|-------------|-------------|
| 1707231-01B | 1707231-02B | 1707231-03B |
|-------------|-------------|-------------|

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

Client: U.S. Steel - Gary Works
 Work Order: 1707231
 Project: (USS-GARY) CAMU SPRAY 7.7.17

QC BATCH REPORT

Batch ID: **R215360** Instrument ID **VMS9** Method: **SW8260B**

| MBLK | | | | Sample ID: VBLKW1-170707-R215360 | | | | Units: µg/L | | | Analysis Date: 7/7/2017 12:46 PM | | | |
|-----------------------------|--------|-----|---------|----------------------------------|------|---------------|---------------|----------------|-----------|------|----------------------------------|--|-------|--|
| Client ID: | | | | Run ID: VMS9_170707A | | | | SeqNo: 4522923 | | | 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 | 20.26 | 0 | 20 | 0 | 101 | 75-120 | | 0 | | | | | | |
| Surr: 4-Bromofluorobenzene | 18.94 | 0 | 20 | 0 | 94.7 | 80-110 | | 0 | | | | | | |
| Surr: Dibromofluoromethane | 19.17 | 0 | 20 | 0 | 95.8 | 85-115 | | 0 | | | | | | |
| Surr: Toluene-d8 | 20.19 | 0 | 20 | 0 | 101 | 85-110 | | 0 | | | | | | |

| LCS | | | | Sample ID: VLCSW1-170707-R215360 | | | | Units: µg/L | | Analysis Date: 7/7/2017 11:39 AM | |
|-----------------------------|--------|-----|----------------------|----------------------------------|------|----------------|---------------|-------------|-----------|----------------------------------|--|
| Client ID: | | | Run ID: VMS9_170707A | | | SeqNo: 4522922 | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Benzene | 19.54 | 1.0 | 20 | 0 | 97.7 | 85-125 | 0 | | | | |
| Ethylbenzene | 18.9 | 1.0 | 20 | 0 | 94.5 | 85-125 | 0 | | | | |
| m,p-Xylene | 38.36 | 2.0 | 40 | 0 | 95.9 | 75-130 | 0 | | | | |
| Naphthalene | 17.97 | 5.0 | 20 | 0 | 89.8 | 55-160 | 0 | | | | |
| o-Xylene | 19.29 | 1.0 | 20 | 0 | 96.4 | 80-125 | 0 | | | | |
| Toluene | 18.96 | 1.0 | 20 | 0 | 94.8 | 85-125 | 0 | | | | |
| Xylenes, Total | 57.65 | 3.0 | 60 | 0 | 96.1 | 80-126 | 0 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 20 | 0 | 20 | 0 | 100 | 75-120 | 0 | | | | |
| Surr: 4-Bromofluorobenzene | 20.36 | 0 | 20 | 0 | 102 | 80-110 | 0 | | | | |
| Surr: Dibromofluoromethane | 20.71 | 0 | 20 | 0 | 104 | 85-115 | 0 | | | | |
| Surr: Toluene-d8 | 20.05 | 0 | 20 | 0 | 100 | 85-110 | 0 | | | | |

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

Client: U.S. Steel - Gary Works
 Work Order: 1707231
 Project: (USS-GARY) CAMU SPRAY 7.7.17

QC BATCH REPORT

Batch ID: **R215360** Instrument ID **VMS9** Method: **SW8260B**

| MS | | | | Sample ID: 17061774-28A MS | | | Units: µg/L | | Analysis Date: 7/7/2017 09:17 PM | | |
|-----------------------------|--------|-------|----------------------|----------------------------|------|----------------|---------------|------------|----------------------------------|----------|--|
| Client ID: | | | Run ID: VMS9_170707A | | | SeqNo: 4522945 | | Prep Date: | | DF: 1000 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Benzene | 19080 | 1,000 | 20000 | 0 | 95.4 | 85-125 | 0 | | | | |
| Ethylbenzene | 18220 | 1,000 | 20000 | 0 | 91.1 | 85-125 | 0 | | | | |
| m,p-Xylene | 36840 | 2,000 | 40000 | 0 | 92.1 | 75-130 | 0 | | | | |
| Naphthalene | 20120 | 5,000 | 20000 | 0 | 101 | 55-160 | 0 | | | | |
| o-Xylene | 18600 | 1,000 | 20000 | 0 | 93 | 80-125 | 0 | | | | |
| Toluene | 18590 | 1,000 | 20000 | 0 | 93 | 85-125 | 0 | | | | |
| Xylenes, Total | 55440 | 3,000 | 60000 | 0 | 92.4 | 80-126 | 0 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 19380 | 0 | 20000 | 0 | 96.9 | 75-120 | 0 | | | | |
| Surr: 4-Bromofluorobenzene | 19730 | 0 | 20000 | 0 | 98.6 | 80-110 | 0 | | | | |
| Surr: Dibromofluoromethane | 20320 | 0 | 20000 | 0 | 102 | 85-115 | 0 | | | | |
| Surr: Toluene-d8 | 20390 | 0 | 20000 | 0 | 102 | 85-110 | 0 | | | | |

| MSD | | | | Sample ID: 17061774-28A MSD | | | | Units: µg/L | | Analysis Date: 7/7/2017 09:39 PM | |
|-----------------------------|--------|-------|----------------------|-----------------------------|------|----------------|---------------|-------------|-----------|----------------------------------|--|
| Client ID: | | | Run ID: VMS9_170707A | | | SeqNo: 4522946 | | Prep Date: | | DF: 1000 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Benzene | 18360 | 1,000 | 20000 | 0 | 91.8 | 85-125 | 19080 | 3.85 | 30 | | |
| Ethylbenzene | 17250 | 1,000 | 20000 | 0 | 86.2 | 85-125 | 18220 | 5.47 | 30 | | |
| m,p-Xylene | 35120 | 2,000 | 40000 | 0 | 87.8 | 75-130 | 36840 | 4.78 | 30 | | |
| Naphthalene | 20460 | 5,000 | 20000 | 0 | 102 | 55-160 | 20120 | 1.68 | 30 | | |
| o-Xylene | 17930 | 1,000 | 20000 | 0 | 89.6 | 80-125 | 18600 | 3.67 | 30 | | |
| Toluene | 17800 | 1,000 | 20000 | 0 | 89 | 85-125 | 18590 | 4.34 | 30 | | |
| Xylenes, Total | 53050 | 3,000 | 60000 | 0 | 88.4 | 80-126 | 55440 | 4.41 | 30 | | |
| Surr: 1,2-Dichloroethane-d4 | 19850 | 0 | 20000 | 0 | 99.2 | 75-120 | 19380 | 2.4 | 30 | | |
| Surr: 4-Bromofluorobenzene | 19760 | 0 | 20000 | 0 | 98.8 | 80-110 | 19730 | 0.152 | 30 | | |
| Surr: Dibromofluoromethane | 20700 | 0 | 20000 | 0 | 104 | 85-115 | 20320 | 1.85 | 30 | | |
| Surr: Toluene-d8 | 20380 | 0 | 20000 | 0 | 102 | 85-110 | 20390 | 0.0491 | 30 | | |

The following samples were analyzed in this batch:

| | | |
|-------------|-------------|-------------|
| 1707231-01A | 1707231-02A | 1707231-03A |
| 1707231-04A | | |

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

Client: U.S. Steel - Gary Works
 Work Order: 1707231
 Project: (USS-GARY) CAMU SPRAY 7.7.17

QC BATCH REPORT

Batch ID: **R215451B** Instrument ID **VMS5** Method: **SW8260B**

| MBLK | | Sample ID: VLKW2-170710-R215451B | | | | Units: µg/L | | Analysis Date: 7/10/2017 11:50 AM | | |
|------------------------------------|--------|---|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|
| Client ID: | | Run ID: VMS5_170710A | | | | SeqNo: 4523903 | | 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 | | | | | | | | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 19.37 | 0 | 20 | 0 | 96.8 | 75-120 | 0 | | | |
| <i>Surr: 4-Bromofluorobenzene</i> | 17.09 | 0 | 20 | 0 | 85.4 | 80-110 | 0 | | | |
| <i>Surr: Dibromofluoromethane</i> | 19.29 | 0 | 20 | 0 | 96.4 | 85-115 | 0 | | | |
| <i>Surr: Toluene-d8</i> | 17.39 | 0 | 20 | 0 | 87 | 85-110 | 0 | | | |

| LCS | | Sample ID: VLCSW1-170710-R215451B | | | | Units: µg/L | | Analysis Date: 7/10/2017 10:58 AM | | |
|------------------------------------|--------|--|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|
| Client ID: | | Run ID: VMS5_170710A | | | | SeqNo: 4523902 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Benzene | 19.37 | 1.0 | 20 | 0 | 96.8 | 85-125 | 0 | | | |
| Ethylbenzene | 19.56 | 1.0 | 20 | 0 | 97.8 | 85-125 | 0 | | | |
| m,p-Xylene | 39.68 | 2.0 | 40 | 0 | 99.2 | 75-130 | 0 | | | |
| Naphthalene | 17 | 5.0 | 20 | 0 | 85 | 55-160 | 0 | | | |
| o-Xylene | 20.28 | 1.0 | 20 | 0 | 101 | 80-125 | 0 | | | |
| Toluene | 18.84 | 1.0 | 20 | 0 | 94.2 | 85-125 | 0 | | | |
| Xylenes, Total | 59.96 | 3.0 | 60 | 0 | 99.9 | 80-126 | 0 | | | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 18.75 | 0 | 20 | 0 | 93.8 | 75-120 | 0 | | | |
| <i>Surr: 4-Bromofluorobenzene</i> | 20.34 | 0 | 20 | 0 | 102 | 80-110 | 0 | | | |
| <i>Surr: Dibromofluoromethane</i> | 18.68 | 0 | 20 | 0 | 93.4 | 85-115 | 0 | | | |
| <i>Surr: Toluene-d8</i> | 19.7 | 0 | 20 | 0 | 98.5 | 85-110 | 0 | | | |

The following samples were analyzed in this batch:

| | | |
|-------------|-------------|-------------|
| 1707231-01A | 1707231-02A | 1707231-03A |
|-------------|-------------|-------------|

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



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

Page 1 of 1

| ALS Project Manager: Amanda Grzybowski ALS Work Order #: 1707231 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------------|--|--------------|---|--------------------|---|------|------------------------|-------------------|--|---|--|--------------|------------|--------------|------------------|--------------|------------|--------------|------------------|--------------|------------|----------------------------|--------|------|----|---|---|---|--|--|--|--|--|--|--|--|--|--|---|----------------------------|--------|------|----|---|---|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--------------------------|--------|------|----|---|---|---|--|--|--|--|--|--|--|--|--|--|---|--------------------------|--------|------|----|---|---|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----------------------------|--------|------|----|---|---|---|--|--|--|--|--|--|--|--|--|--|---|----------------------------|--------|------|----|---|---|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----------------------|--------|------|----|---|---|---|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Project Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Customer Information | | Project Name: CAMU Sprays | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Purchase Order | Work Order | Project Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company Name: USS | Send Report To: John Prusiecki | Bill To Company: USS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address | | Invoice Attn. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City/State/Zip | Phone | Address | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fax | Fax | City/State/Zip | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| e-Mail Address | | Fax | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>No.</th> <th>Sample Description</th> <th>Date</th> <th>Time</th> <th>Matrix</th> <th>Pres. Key Numbers</th> <th># Bottles</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> <th>H</th> <th>I</th> <th>J</th> <th>Hold</th> </tr> <tr> <td>1</td> <td>CAMU Spray Influent [Grab]</td> <td>7/7/17</td> <td>0832</td> <td>AQ</td> <td>1</td> <td>3</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>CAMU Spray Influent [Grab]</td> <td>7/7/17</td> <td>0832</td> <td>AQ</td> <td>3</td> <td>1</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>CAMU Spray Middle [Grab]</td> <td>7/7/17</td> <td>0830</td> <td>AQ</td> <td>1</td> <td>3</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>CAMU Spray Middle [Grab]</td> <td>7/7/17</td> <td>0830</td> <td>AQ</td> <td>3</td> <td>1</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>CAMU Spray Effluent [Grab]</td> <td>7/7/17</td> <td>0828</td> <td>AQ</td> <td>1</td> <td>3</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td>CAMU Spray Effluent [Grab]</td> <td>7/7/17</td> <td>0828</td> <td>AQ</td> <td>3</td> <td>1</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>CAMU Spray Trip Blank</td> <td>7/7/17</td> <td>0700</td> <td>AQ</td> <td>1</td> <td>1</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>13</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>14</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | | | | 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] | 7/7/17 | 0832 | AQ | 1 | 3 | X | | | | | | | | | | | 2 | CAMU Spray Influent [Grab] | 7/7/17 | 0832 | AQ | 3 | 1 | | X | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | 4 | CAMU Spray Middle [Grab] | 7/7/17 | 0830 | AQ | 1 | 3 | X | | | | | | | | | | | 5 | CAMU Spray Middle [Grab] | 7/7/17 | 0830 | AQ | 3 | 1 | | X | | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | 7 | CAMU Spray Effluent [Grab] | 7/7/17 | 0828 | AQ | 1 | 3 | X | | | | | | | | | | | 8 | CAMU Spray Effluent [Grab] | 7/7/17 | 0828 | AQ | 3 | 1 | | X | | | | | | | | | | 9 | | | | | | | | | | | | | | | | | | 10 | CAMU Spray Trip Blank | 7/7/17 | 0700 | AQ | 1 | 1 | X | | | | | | | | | | | 11 | | | | | | | | | | | | | | | | | | 12 | | | | | | | | | | | | | | | | | | 13 | | | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | 15 | | | | | | | | | | | | | | | | | |
| No. | Sample Description | Date | Time | Matrix | Pres. Key Numbers | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 7 | CAMU Spray Effluent [Grab] | 7/7/17 | 0828 | AQ | 1 | 3 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2">Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other</td> </tr> <tr> <td colspan="2">84°C</td> </tr> </table> | | | | Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other | | 84°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 84°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Sample Receipt Checklist

Client Name: USS-GARY

Date/Time Received: 07-Jul-17 00:00

Work Order: 1707231

Received by: JH

Checklist completed by Diane Shaw
eSignature

07-Jul-17
Date

Reviewed by: Amanda Przybowski
eSignature

07-Jul-17
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>3.2</u> | | |
| Cooler(s)/Kit(s): | | | |
| Date/Time sample(s) sent to storage: | <u>7/7/17 10:50</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 - 3.0/3.0 c SR2

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: