

July 17, 2019

ADEC CSP Attn: Paul Horwath 43335 Kalifornsky Beach Rd., Ste. 11 Soldotna, AK 99669

Re: Kasilof Tesoro/Kasilof Riverview Lodge Monitoring Well Sampling; ADEC File Number 2319.26.002

Dear Mr. Horwath:

The purpose of this letter is to provide you with information you need to be informed to make regulatory decisions regarding the monitoring well sampling event that EHX performed at the Kasilof Riverview Lodge, which is also a Tesoro gas station, in July 5, 2019. The Kasilof Riverview Lodge gas station is located adjacent to the Kasilof River at 57440 Sterling Highway at approximately milepost 109.5.

Three monitoring wells remain at the site; however, only monitor well #1 was sampled during this sampling event. Only 5 gallons of water was bailed from the well prior to sampling. After bailing 5 gallons the water remained somewhat turbid. The sampling equipment we used was stainless steel 1 inch bailers. The well we were primarily concerned with was monitoring well #1 due to its history of benzene contamination.

As each monitoring well cap was removed we used a photoionization detector (PID) to determine if there were any hydrocarbon gasses retained in the well. The PID reading for every well was zero parts per million.

The primary contaminant of concern at this site is benzene. Analytical sampling was performed in monitoring well #1 for GRO and BTEX. The analytical processes undertaken by the laboratory were AK101 and EPA 8021B for both respectively.

One sample was collected for laboratory analysis along with a trip blank. The results of that analytical testing, performed by SGS laboratories in Anchorage, Alaska, is shown in the Table 1 below. All of the parameters tested for were not detected.



KASILOF TESORO - Monitoring Well Results

| | GRO | Benzene | Toluene | Ethylbenzene | Xylene |
|---------|-----|---------|---------|--------------|--------|
| KT-1 | ND | ND | ND | ND | ND |
| Table 1 | | | | | |

The static groundwater level was determined for as three wells. A Google Earth image is included in this report that provides the water depth of each well. There are two Google Earth images included showing the general location of the Kasilof Riverview Lodge and the locations of all three monitoring wells.

The sample results from this sampling event and the prior sampling event performed in August 2018 were both below the ADEC regulatory cleanup level. ADEC Regulations require a series of sampling events whose results fall below the regulatory cleanup level prior to regulatory closure being permitted. This site may meet that standard.

Please feel free to contact me if you have any questions regarding this or any other related matter. My contact information is included in the footer below.

Sincerely,

Eric Henry







Laboratory Report of Analysis

To: EHX Alaska 52785 Birch Tree Avenue Kenai, AK 99611 (907)350-9008

Report Number: **1193614**

Client Project: Kasilof Tesoro

Dear Eric Henry,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Jillian at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely, SGS North America Inc.

Jillian Janssen Project Manager Jillian.Janssen@sgs.com Date

Print Date: 07/11/2019 12:20:15PM

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200 West Potter Drive, Anchorage, AK 99518 t 907.562.2343 f 907.561.5301 www.us.sgs.com Results via Engage

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Case Narrative

SGS Client: EHX Alaska SGS Project: 1193614 Project Name/Site: Kasilof Tesoro Project Contact: Eric Henry

Refer to sample receipt form for information on sample condition.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry (DW Chemistry (Provisionally Certified as of 6/20/19 for Turbidity by SM 2130B, and Copper by EPA 200.8) & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

| * | The analyte has exceeded allowable regulatory or control limits. |
|--|--|
| ! | Surrogate out of control limits. |
| В | Indicates the analyte is found in a blank associated with the sample. |
| CCV/CVA/CVB | Continuing Calibration Verification |
| CCCV/CVC/CVCA/CVCB | Closing Continuing Calibration Verification |
| CL | Control Limit |
| DF | Analytical Dilution Factor |
| DL | Detection Limit (i.e., maximum method detection limit) |
| E | The analyte result is above the calibrated range. |
| GT | Greater Than |
| IB | Instrument Blank |
| ICV | Initial Calibration Verification |
| J | The quantitation is an estimation. |
| LCS(D) | Laboratory Control Spike (Duplicate) |
| LLQC/LLIQC | Low Level Quantitation Check |
| LOD | Limit of Detection (i.e., 1/2 of the LOQ) |
| LOQ | Limit of Quantitation (i.e., reporting or practical quantitation limit) |
| LT | Less Than |
| MB | Method Blank |
| MS(D) | Matrix Spike (Duplicate) |
| ND | Indicates the analyte is not detected. |
| RPD | Relative Percent Difference |
| U | Indicates the analyte was analyzed for but not detected. |
| Sample summaries which in All DRO/RRO analyses are | nclude a result for "Total Solids" have already been adjusted for moisture content. integrated per SOP. |
| | |

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Note:

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SW8021B

| Sample Summary | | | | | | | | | | |
|------------------|---------------|------------|------------|-------------------------------|--|--|--|--|--|--|
| Client Sample ID | Lab Sample ID | Collected | Received | Matrix | | | | | | |
| KT-1 | 1193614001 | 07/05/2019 | 07/08/2019 | Water (Surface, Eff., Ground) | | | | | | |
| Trip Blank | 1193614002 | 07/05/2019 | 07/08/2019 | Water (Surface, Eff., Ground) | | | | | | |
| Method | Method Des | | | | | | | | | |
| AK101 | AK101/8021 | I Combo. | | | | | | | | |

AK101/8021 Combo.

Print Date: 07/11/2019 12:20:17PM

| Client Sample ID: KT-1 Client Project ID: Kasilof Tesoro Lab Sample ID: 1193614001 Lab Project ID: 1193614 | h | | | | | | |
|---|--------------------|--------|--|---|---------------------|-----------------------------------|----------------|
| Results by Volatile Fuels | | | | | | | |
| Parameter Cosolino Rango Organico | Result Qual | LOQ/CL | <u>DL</u> 0.0310 | <u>Units</u> | DF 1 | <u>Allowable</u> <u>Limits</u> | Date Analyzed |
| Gasoline Range Organics | 0.100 0 | 0.100 | 0.0310 | mg/L | I | | 07/10/19 03:01 |
| Surrogates 4-Bromofluorobenzene (surr) | 86.8 | 50-150 | | % | 1 | | 07/10/19 03:01 |
| Batch Information | | | | | | | |
| Analytical Batch: VFC14810 Analytical Method: AK101 Analyst: ST Analytical Date/Time: 07/10/19 03:01 Container ID: 1193614001-A | | | Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract | | | | |
| Parameter | <u>Result Qual</u> | LOQ/CL | <u>DL</u> | <u>Units</u> | <u>DF</u> | Allowable Limits | Date Analyzed |
| Benzene | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 07/10/19 03:01 |
| Ethylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/10/19 03:01 |
| | 2.00.11 | 2.00 | 0.310 | ug/L | 1 | | 07/10/19 03:01 |
| | 1.00 U | 1.00 | 0.020 | ug/L | 1 | | 07/10/19 03:01 |
| Xylenes (total) | 3.00 U | 3.00 | 0.930 | ug/L | 1 | | 07/10/19 03:01 |
| urrogates | | | | | | | |
| 1,4-Difluorobenzene (surr) | 96.3 | 77-115 | | % | 1 | | 07/10/19 03:01 |
| Batch Information | | | | | | | |
| Analytical Batch: VFC14810 Analytical Method: SW8021B Analyst: ST Analytical Date/Time: 07/10/19 03:01 | | | Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract | VXX34394 : SW5030E me: 07/09/ /t./Vol.: 5 m Vol: 5 mL | 3 19 08:00 1L | | |

Print Date: 07/11/2019 12:20:19PM

| SGS | |
|-----|--|
| | |

| - Results of Trip Blank | | | | | | | |
|---|-------------------------------|---|--|---|---------------------|-----------------------------------|--|
| Client Sample ID: Trip Blank Client Project ID: Kasilof Tesoro Lab Sample ID: 1193614002 Lab Project ID: 1193614 | | Collection Date: 07/05/19 10:35 Received Date: 07/08/19 08:31 Matrix: Water (Surface, Eff., Ground) Solids (%): Location: | | | | | |
| - Results by Volatile Fuels | | | | | | | |
| Parameter Gasoline Range Organics | <u>Result Qual</u> 0.100 U | <u>LOQ/CL</u> 0.100 | <u>DL</u> 0.0310 | <u>Units</u> mg/L | <u>DF</u> 1 | <u>Allowable</u> <u>Limits</u> | <u>Date Analyzed</u> 07/10/19 01:32 |
| Surrogatos | | | | - | | | |
| 4-Bromofluorobenzene (surr) | 83.8 | 50-150 | | % | 1 | | 07/10/19 01:32 |
| Batch Information | | | | | | | |
| Analytical Batch: VFC14810 Analytical Method: AK101 Analyst: ST Analytical Date/Time: 07/10/19 01:32 Container ID: 1193614002-A | | | Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract | VXX34394 SW5030B ne: 07/09/1 t./Vol.: 5 m Vol: 5 mL | 8 19 08:00 IL | | |
| Parameter | Result Qual | LOQ/CL | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable</u> <u>Limits</u> | Date Analyzed |
| Benzene | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 07/10/19 01:32 |
| Ethylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/10/19 01:32 |
| o-Xylene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/10/19 01:32 |
| P & M -Xylene | 2.00 U | 2.00 | 0.620 | ug/L | 1 | | 07/10/19 01:32 |
| Toluene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/10/19 01:32 |
| Xylenes (total) | 3.00 U | 3.00 | 0.930 | ug/L | 1 | | 07/10/19 01:32 |
| Surrogates | | | | | | | |
| 1,4-Difluorobenzene (surr) | 97.1 | 77-115 | | % | 1 | | 07/10/19 01:32 |
| Batch Information | | | | | | | |
| Analytical Batch: VFC14810 Analytical Method: SW8021B Analyst: ST Analytical Date/Time: 07/10/19 01:32 Container ID: 1193614002-A | | | Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract | VXX34394 SW5030B ne: 07/09/1 t./Vol.: 5 m Vol: 5 mL | | | |
| Container ID: 1193614002-A | | | Prep Extract | voi: 5 mL | | | |

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| <u>Results</u> 0.0500U | <u>LOQ/CL</u> 0.100 | <u>DL</u> 0.0310 | <u>Units</u> mg/L | |
|---------------------------|--|---|---|--|
| 91.3 | 50-150 | | % | |
| | | | | |
| D/FID 9 2:24:00PM | Prep Bat Prep Me Prep Da Prep Init Prep Ext | ch: VXX34394 thod: SW5030B te/Time: 7/9/201 ial Wt./Vol.: 5 ml ract Vol: 5 mL | 9 8:00:00AM - | |
| | | | | |
| | | | | |
| | Results 0.0500U 91.3 D/FID 9 2:24:00PM | Results LOQ/CL 0.0500U 0.100 91.3 50-150 D/FID Prep Bat Prep Me Prep Dat Prep Init 9 2:24:00PM | ResultsLOQ/CLDL0.0500U0.1000.031091.350-150D/FIDPrep Batch: VXX34394 Prep Method: SW5030B Prep Date/Time: 7/9/2019 Prep Initial Wt./Vol.: 5 mL92:24:00PM | Results 0.0500ULOQ/CL 0.100DL units mg/L91.350-150%D/FIDPrep Batch: VXX34394 Prep Method: SW5030B Prep Date/Time: 7/9/2019 Prep Initial Wt./Vol.: 5 mL8:00:00AM Prep Extract Vol: 5 mL92:24:00PMPrep Extract Vol: 5 mL |

Print Date: 07/11/2019 12:20:20PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1193614 [VXX34394] Blank Spike Lab ID: 1517600 Date Analyzed: 07/09/2019 21:39 Spike Duplicate ID: LCSD for HBN 1193614 [VXX34394] Spike Duplicate Lab ID: 1517601 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1193614001, 1193614002

| Results by AK101 | | | _ | | | | | | | | |
|-------------------------------|--------------|----------------------|----------------|----------------------------------|---------------------------------|--------------------------------|---------------|----------------|---------|--|--|
| | E | Blank Spike | e (mg/L) | S | pike Dupli | cate (mg/L) | | | | | |
| Parameter | <u>Spike</u> | Result | <u>Rec (%)</u> | <u>Spike</u> | Result | <u>Rec (%)</u> | CL | <u>RPD (%)</u> | RPD CL | | |
| Gasoline Range Organics | 1.00 | 1.12 | 112 | 1.00 | 1.09 | 109 | (60-120) | 2.50 | (< 20) | | |
| Surrogates | | | | | | | | | | | |
| 4-Bromofluorobenzene (surr) | 0.0500 | 93.7 | 94 | 0.0500 | 87.8 | 88 | (50-150) | 6.50 | | | |
| Batch Information | | | | | | | | | | | |
| Analytical Batch: VFC14810 | | | | Prep | Batch: V | XX34394 | | | | | |
| Analytical Method: AK101 | Prep | Prep Method: SW5030B | | | | | | | | | |
| Instrument: Agilent 7890A Pli | D/FID | | | Prep Date/Time: 07/09/2019 08:00 | | | | | | | |
| Analyst: SI | | | | Бир | e Init Wt./\ e Init Wt /\ | /ol.: 1.00 mg /ol.: 1.00 mg | J/L Extract V | 01:5 mL | | | |
| | | | | Dup | • · · · · · · · · · · · · · · · | 0 1.00 mg | | OIL O INL | | | |

Print Date: 07/11/2019 12:20:21PM

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Method Blank

Blank ID: MB for HBN 1796050 [VXX/34394] Blank Lab ID: 1517597 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1193614001, 1193614002

Results by SW8021B

| Parameter | Results | LOQ/CL | <u>DL</u> | <u>Units</u> |
|----------------------------|---------|--------|-----------|--------------|
| Benzene | 0.250U | 0.500 | 0.150 | ug/L |
| Ethylbenzene | 0.500U | 1.00 | 0.310 | ug/L |
| o-Xylene | 0.500U | 1.00 | 0.310 | ug/L |
| P & M -Xylene | 1.00U | 2.00 | 0.620 | ug/L |
| Toluene | 0.500U | 1.00 | 0.310 | ug/L |
| Xylenes (total) | 1.50U | 3.00 | 0.930 | ug/L |
| Surrogates | | | | |
| 1,4-Difluorobenzene (surr) | 96.4 | 77-115 | | % |
| | | | | |

Batch Information

Analytical Batch: VFC14810 Analytical Method: SW8021B Instrument: Agilent 7890A PID/FID Analyst: ST Analytical Date/Time: 7/9/2019 2:24:00PM

Prep Batch: VXX34394 Prep Method: SW5030B Prep Date/Time: 7/9/2019 8:00:00AM Prep Initial Wt./Vol.: 5 mL Prep Extract Vol: 5 mL

Print Date: 07/11/2019 12:20:22PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1193614 [VXX34394] Blank Spike Lab ID: 1517598 Date Analyzed: 07/09/2019 21:21

Spike Duplicate ID: LCSD for HBN 1193614 [VXX34394] Spike Duplicate Lab ID: 1517599 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1193614001, 1193614002

Results by SW8021B

| | | Blank Spike | e (ug/L) | : | Spike Dupli | cate (ug/L) | | | |
|-----------------------------|--------------|-------------|----------------|--------------|-------------|----------------|-----------|----------------|--------|
| Parameter | <u>Spike</u> | Result | <u>Rec (%)</u> | <u>Spike</u> | Result | <u>Rec (%)</u> | <u>CL</u> | <u>RPD (%)</u> | RPD CL |
| Benzene | 100 | 102 | 102 | 100 | 109 | 109 | (80-120) | 7.30 | (< 20) |
| Ethylbenzene | 100 | 102 | 102 | 100 | 101 | 101 | (75-125) | 1.10 | (< 20) |
| o-Xylene | 100 | 99.6 | 100 | 100 | 97.5 | 98 | (80-120) | 2.20 | (< 20) |
| P & M -Xylene | 200 | 203 | 101 | 200 | 198 | 99 | (75-130) | 2.10 | (< 20) |
| Toluene | 100 | 103 | 103 | 100 | 106 | 106 | (75-120) | 2.60 | (< 20) |
| Xylenes (total) | 300 | 302 | 101 | 300 | 296 | 99 | (79-121) | 2.10 | (< 20) |
| urrogates | | | | | | | | | |
| 1,4-Difluorobenzene (surr) | 50 | 100 | 100 | 50 | 101 | 101 | (77-115) | 0.50 | |
| Batch Information | | | | | | | | | |
| Analytical Batch: VFC14810 | | | | Pre | p Batch: V | XX34394 | | | |
| Analytical Method: SW8021 | В | | | Pre | p Method: | SW5030B | | | |
| Instrument: Agilent 7890A F | PID/FID | | | Pre | p Date/Tim | e: 07/09/201 | 9 08:00 | | |

Analyst: ST

Prep Date/Time: 07/09/2019 08:00 Spike Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL Dupe Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL

Print Date: 07/11/2019 12:20:23PM



SG: CHAIN



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| | Relinquished By: (1) Date | Time | Received By | | L | | | Secti | on 4 | DOD | Projec | t? Yes | 5018 | Data | a Delive | able Requirement | nts: |
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| | | | 11 | | | | | (See | attache | ed Sam | ple Re | ceipt F | orm) | (See a | ttached | Sample Receipt | Form) |

] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

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| Consignee: SGS ENVIRONMENTAL 50012 200 W POTTER DR ANCHORAGE, AK 99518 562, 2343 Origin ENA Currery USD Destination ANC Ourse Code PP Paradiag Information ANC Ourse Code PP Perces Gross Nature Chargeable Weight 1 10 WATER SAMPLES 10 Preces Gross Nature Chargeable Weight 1 10 WATER SAMPLES 10 To WATER SAMPLES 10 To WATER SAMPLES 10 To WATER SAMPLES 10 To Be Preces Output Of Society 10 To Be Output Of Society 10 To Be Preces Output Of Society 10 To Be Output Of Society 10 The Considered and Society 10 To Be Output Of Society 10 To Be Output Of Society 10 To Be Output Of Society 10 The Considered and Society 10 Th | Shipper Name ar Addre | r's nd ERIC HENRY ess PO 209 KENAI, AK 9 907, 250900 | EXCAVATING 0 9611 8 | | Ray R A L A S K It is agreed that the good (except as noted) for car drawn to the "TERMS OF value of the goods and p \$5,000.00 declared value | ds described herein are riage SUBJECT TO THE CONTRACT LIMIT OF Paying a supplemental ca | RAVN A O OLD INTERNA ANCHORAGE, accepted in good order a "TERMS OF CONTRACT" "TERMS OF CONTRACT" harge of \$0.75 per \$100. | AIR ATIONAL ROAD AK. 99502 and undamaged condition . The Shippers attention is m liability by declaring a 00 up to a maximum of | | |
|--|-----------------------------|---|---------------------------------------|----------------------------|--|--|---|---|--|--|
| 562, 2343 Orein ENA Currency. USD Destination ANC Onarge Code PP Iterating Information THIS SIDE UP Destination of Goods O Pieces Gross Nature Chargeable Weight Rate/Charge Total Length Width Height Dim Weight 1 10 WATER SAMPLES 10 38.59 10 Tes Prepaid Vight Carge 38.59 10 Fee Prepaid Collect Other Charges Vight Carge 38.59 FSC Fee 0.00 Vight Carge 0.00 DOC Fees 0.00 Tax 2.41 OTH Fees 0.00 DG Fee 0.00 Total Other Charge Due Agent 0.00 The Consigner confile that the particular to the faileree control and that the billineers class. Total Other Charge Due Agent 0.00 The consigner confile that the altipunent is recerved in good coder encept where mind below. | Consigne | e: SGS ENVIRC 200 W POTT ANCHORAGE | NMENTAL 50012 ER DR E, AK 99518 | 2 | Accounting Info GEN - GENERA | ormation L FREIGHT | | | | |
| Origin ENA Ourserve USD Destination ANC Overge Code PP tanding information Becared Value for Carriage 0 THIS SIDE UP Becared Value for Carriage 0 Piecces Gross Weight Nature of Goods Chargeable Weight Rate/Charge Total Length Width Height Dim Weight 1 10 WATER SAMPLES 10 38.59 10 This Side of Goods Prevent of Sample Prevent of Sample Prevent of Sample Dim Weight Dim Weight 1 10 10 38.59 10 10 10 free Prevent Calent Other Charges 0.00 SSC Fee 0.00 Yeluation Charge 0.00 DOC Fees 0.00 DSC Fees 0.00 Total Other Charges Due Agent 0.00 DCE Fees 0.00 TSC Fees 0.00 Total Other Charges Due Carrier 0.00 DCE Fees 0.00 TSC Fees 0.00 <t< td=""><td>r</td><td>562, 2343</td><td></td><td>·</td><td></td><td></td><td></td><td></td></t<> | r | 562, 2343 | | · | | | | | | |
| Destination ANC Description PP Handing Information THIS SIDE UP Declared Value for Carriage 0 0 Pieces Gross Weight 1 Nature of Goods Chargeable Weight 10 Rate/Charge Weight 10 Total Length Width Height Weight 10 Dim Weight 38.59 Dim Weight 10 1 10 WATER SAMPLES 10 38.59 10 Total Length Width Height 10 Total Content Charge Vieight Charge Other Charges Weight Charge Other Charges Vieight Charge Other Charges Vieight Charge Other Charges Vieight Charge Other Charg | Origin | EN | Α | | Currency | USD | | | | |
| Handing information Deckered Value for Carriage 0 Piecces Gross Weight Nature of Goods Chargeable Weight Rate/Charge Total Length Width Height Dim Weight 1 10 WATER SAMPLES 10 38.59 10 1 10 10 38.59 10 1 10 10 38.59 10 1 10 10 38.59 10 1 10 10 38.59 10 | Destination | AN | IC | | Charge Code | PP | | | | |
| Pieces Gross Weight 1 Nature of Goods WATER SAMPLES Chargeable Weight 10 Rate/Charge Total Length Width Height Weight 10 1 10 38.59 10 1 10 10 38.59 10 1 10 10 38.59 10 1 10 10 38.59 10 1 10 10 38.59 10 1 10 10 38.59 10 1 10 10 38.59 10 1 10 10 38.59 10 1 10 10 38.59 10 1 10 10 38.59 10 1 10 10 38.59 10 1 10 10 38.59 10 1 10 10 10 10 1 10 10 10 10 1 10 10 10 10 10 1 10 10 10 10 | Handling Infor | rmation DE UP | | | Declared Value for Carria | Declared Value for Carriage 0 | | | | |
| 1 10 10 38.59 10 1 10 10 38.59 10 10 10 38.59 10 10 10 10 38.59 10 10 10 10 38.59 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 | Pieces 1 | Gross Weight 10 W | Nature of Goods /ATER SAMPLES | Chargeable Weight 10 | Rate/Charge | Total Leng 38.59 | gth Width H | leight Dim Weight 10 | | |
| 1 10 38.59 10 Fee Prepaid Collect Other Charges Weight Charge 38.59 FSC Fee 0.00 SSC Fee 0.00 Valuation Charge 0.00 DOC Fees 0.00 DG Fee 0.00 Tax 2.41 OTH Fees 0.00 P/U Fee 0.00 Total Other Charges Due Agent 0.00 DEL Fees 0.00 P/U Fee 0.00 Total Other Charges Due Carrier 0.00 The shipper certifies that the particulars on the face hereof are correct, and that the shipment does not contain dangerous goods, and that all ITEMS ARE ACCEPTED AT SHIPPERS RISK. Total 41.00 | | | | | | 1193 | 3614 | | | |
| Fee Prepaid Collect Other Charges Weight Charge 38.59 FSC Fee 0.00 SSC Fee 0.00 Valuation Charge 0.00 DOC Fees 0.00 DG Fee 0.00 Tax 2.41 OTH Fees 0.00 P/U Fee 0.00 Total Other Charges Due Agent 0.00 DEL Fees 0.00 TSC Fees 0.00 Total Other Charges Due Carrier 0.00 The shipper certifies that the particulars on the face hereof are correct, and that the shipment does not contain dangerous goods, and that all ITEMS ARE ACCEPTED AT SHIPPER'S RISK. Total 41.00 Eric henry dl # 6559695 Signature of Issuing Carrier or its Agent WB Date WB Time (Shipper's printed name and signature) MICHAEL HICKS 05-JUL-19 1329 (Consignee's printed name and signature) | 1 | 10 | | 10 | | 38.59 | | 10 | | |
| Weight Charge 38.59 FSC Fee 0.00 SSC Fee 0.00 Valuation Charge 0.00 DOC Fees 0.00 DG Fee 0.00 Tax 2.41 OTH Fees 0.00 P/U Fee 0.00 Total Other Charges Due Agent 0.00 DEL Fees 0.00 TSC Fees 0.00 Total Other Charges Due Carrier 0.00 The shipper certifies that the particulars on the face hereof are correct, and that the shipment does not contain dangerous goods, and that all ITEMS ARE ACCEPTED AT SHIPPERS RISK. Total 41.00 Eric henry dl# 6559695 Signature of Issuing Carrier or its Agent WB Date WB Time The consignee certifies that the shipment is received in good order except where noted below. MICHAEL HICKS 05-JUL-19 1329 (Consignee's printed name and signature) | | Fee | Prepaid | Collect | | Othe | r Charges | | | |
| Valuation Charge 0.00 DOC Fees 0.00 DG Fee 0.00 Tax 2.41 OTH Fees 0.00 P/U Fee 0.00 Total Other Charges Due Agent 0.00 DEL Fees 0.00 TSC Fees 0.00 Total Other Charges Due Carrier 0.00 The shipper certifies that the particulars on the face hereof are correct, and that the shipment does not contain dangerous goods, and that all ITEMS ARE ACCEPTED AT SHIPPER'S RISK. Total 41.00 | w | /eight Charge | 38.59 | | FSC Fee | 0.0 | 0 SSC Fee | 0.00 | | |
| Tax 2.41 OTH Fees 0.00 P/U Fee 0.00 Total Other Charges Due Agent 0.00 DEL Fees 0.00 TSC Fees 0.00 Total Other Charges Due Carrier 0.00 The shipper certifies that the particulars on the face hereof are correct, and that the shipment does not contain dangerous goods, and that all ITEMS ARE ACCEPTED AT SHIPPER'S RISK. Total 41.00 Eric henry dl# 6559695 Signature of Issuing Carrier or its Agent WB Date WB Time The consignee certifies that the shipment is received in good order except where noted below. MICHAEL HICKS 05-JUL-19 1329 (Consignee's printed name and signature) | Val | luation Charge | 0.00 | | DOC Fees | 0.0 | 0 DG Fee | 0.00 | | |
| Total Other Charges Due Agent 0.00 DEL Fees 0.00 TSC Fees 0.00 Total Other Charges Due Carrier 0.00 The shipper certifies that the particulars on the face hereof are correct, and that the shipment does not contain dangerous goods, and that all ITEMS ARE ACCEPTED AT SHIPPER'S RISK. Total 41.00 eric henry dl# 6559695 Signature of Issuing Carrier or its Agent WB Date WB Time MICHAEL HICKS 05-JUL-19 1329 (Consignee's printed name and signature) (Consignee's printed name and signature) | | Tax | 2.41 | | OTH Fees | 0.0 | 0 P/U Fee | 0.00 | | |
| Total Other Charges Due Carrier 0.00 Ine snipper certifies that the particulars on the face hereor are correct, and that the shipment does not contain dangerous goods, and that all ITEMS ARE ACCEPTED AT SHIPPER'S RISK. Total 41.00 eric henry dl# 6559695 Signature of Issuing Carrier or its Agent WB Date WB Time MICHAEL HICKS 05-JUL-19 1329 (Consignee's printed name and signature) (Consignee's printed name and signature) (Consignee's printed name and signature) | Total Othe | er Charges Due Agent | 0.00 | | DEL Fees | 0.0 | 0 TSC Fees | 0.00 | | |
| Total 41.00 Image: Signature of Issuing Carrier or its Agent WB Date WB Time MICHAEL HICKS 05-JUL-19 1329 | Total Othe | r Charges Due Carrier | 0.00 | | not contain dangerous go | the particulars on the f pods, and that all ITEMS | ace hereof are correct, a S ARE ACCEPTED AT SHI | nd that the shipment does PPER'S RISK. | | |
| MICHAEL HICKS 05-JUL-19 1329 Consignee Consignee's printed name and signature) | | Total | 41.00 | | | | | | | |
| Signature of Issuing Carrier or its Agent WB Date WB Time (Shipper's printed name and signature) MICHAEL HICKS 05-JUL-19 1329 (Consignee's printed name and signature) | | | | · | | eric henry | dl# 6559695 | | | |
| Signature of Issuing Carrier or its Agent WB Date WB Time MICHAEL HICKS 05-JUL-19 1329 (Consignee's printed name and signature) | | | | | | (Shipper's printed | I name and signature) | | | |
| MICHAEL HICKS 05-JUL-19 1329 (Consignee's printed name and signature) | Signature of Is | ssuing Carrier or its Agent | WB Date | WB Time | The consignee certifies th | nat the shipment is rece | ived in good order excep | t where noted below. | | |
| Consignee's printed name and signature) | MICL | | 05-100-10 | 1220 | | | | | | |
| | | | 02-205-13 | 1323 | | (Consignee's printe | ed name and signature) | | | |

CARRIAGE SUBJECT TO "TERMS OF CONTRACT" found at https://www.flyravn.com/cargo-services/cargo-contract-carriage

Alert Expeditors Inc.

#395623

Citywide Delivery • 440-3351 8421 Flamingo Drive • Anchorage, Alaska 99502

Date Er. Mear From Advance Charges Prepay 🗖 Account 🗖 Collect 🗆 PO# 📿 Job # GUM 103 CA mo 1193614 e. Shipped Signature Total Charge 13 of 15 Received By:

| 000 | e-Samj | ple Re | ceipt | eipt Form | | | | | |
|---|--|----------------------|-----------|------------|---------------------|------------------|---------------|---------------------------|--------|
| SGS | SGS Workorder #: | | 1 | 1936 | 614 | | 93 | 6 1 | 4 4 |
| | Review Criteria | Conditio | on (Yes, | No, N/A | Exc | eptions Not | ted belo | w | |
| <u>Ch</u> | ain of Custody / Temperature Requi | remen | <u>ts</u> | ١ | I/A Exemption pe | ermitted if samp | oler hand | carries/deliv | vers. |
| | Were Custody Seals intact? Note # & | location | N/A | | | | | | |
| | COC accompanied sa | amples? | Yes | | | | | | |
| DOD: \ | Nere samples received in COC corresponding c | coolers? | N/A | | | | | | |
| | N/A **Exemption permitted if | chilled & | k colle | cted <8 ho | urs ago, or for san | nples where ch | illing is no | t required | - |
| Tem | perature blank compliant* (i.e., 0-6 °C afte | er CF)? | Yes | Cooler ID: | 1 | @ | 2.4 °C | Therm. ID: | D52 |
| | | | | Cooler ID: | : | @ | °C | Therm. ID: | : |
| If samples received wi documented instead & "COO | thout a temperature blank, the "cooler temperature" will OLER TEMP" will be noted to the right "ambient" or "ch | l be hilled" will | | Cooler ID: | | @ | °C | Therm. ID: | : |
| | be noted if neither is available. | iniou inii | | Cooler ID: | | @ | °C | Therm. ID: | : |
| | | | | | | | | | |
| | *If >6°C, were samples collected <8 hours | s ago? | N/A | | | | | | |
| | If <0°C, were sample containers ice | e free? | N/A | | | | | | |
| Note: Identify co | ntainers received at non-compliant temper Use form FS-0029 if more space is n | rature . eeded. | | | | | | | |
| <u>Holding Tir</u> | ne / Documentation / Sample Condition Re | equirem | nents | Note: Refe | r to form F-083 "S | Sample Guide" | for specifi | <mark>c holding ti</mark> | imes. |
| | Were samples received within holding | g time? | Yes | | | | | | |
| Do samples matc | h COC** (i.e.,sample IDs,dates/times colle | ected)? | Yes | | | | | | |
| **Note: If tim | es differ <1hr, record details & login per C | OC. | | | | | | | |

| **Note: If times differ <1hr, record details & login per COC. | |
|---|---|
| ***Note: If sample information on containers differs from COC, SGS will default to COC information | |
| Were analytical requests clear? (i.e., method is specified for analyses Nowwith multiple option for analysis (Ex: BTEX, Metals) | BTEX method unspecified, Logging in as GRO/BTEX combo per PM |
| | N/A ***Exemption permitted for metals (e.g.200.8/6020A). |
| Were proper containers (type/mass/volume/preservative***)used? Yes | |
| Volatile / LL-Hg Requirements | |
| Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples? Yes | |
| Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)? Yes | |
| Were all soil VOAs field extracted with MeOH+BFB? N/A | |
| Note to Client: Any "No", answer above indicates non-compliance | with standard procedures and may impact data quality. |
| Additional notes (if a | pplicable): |
| | |



Sample Containers and Preservatives

| <u>Container Id</u> | Preservative | <u>Container</u> <u>Condition</u> | <u>Container Id</u> | <u>Preservative</u> | <u>Container</u> <u>Condition</u> |
|---------------------|-----------------|--------------------------------------|---------------------|---------------------|--------------------------------------|
| 1193614001-A | HCL to $pH < 2$ | OK | | | |
| 1193614001-B | HCL to $pH < 2$ | OK | | | |
| 1193614001-C | HCL to $pH < 2$ | OK | | | |
| 1193614001-D | HCL to $pH < 2$ | OK | | | |
| 1193614001-E | HCL to $pH < 2$ | OK | | | |
| 1193614001-F | HCL to $pH < 2$ | OK | | | |
| 1193614002-A | HCL to $pH < 2$ | OK | | | |
| 1193614002-B | HCL to $pH < 2$ | OK | | | |
| 1193614002-C | HCL to $pH < 2$ | ОК | | | |

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM - The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

Laboratory Data Review Checklist

Completed By:

EHX. Eric Henry

Title:

Qualified Sampler

Date:

7.17.2019

CS Report Name:

Kasilof Tesoro/Kasilof Riverview Lodge Monitor Well Sampling; ADEC File Number: 2319.26.002

Report Date:

7.17.2019

Consultant Firm:

EHX

Laboratory Name:

SGS

Laboratory Report Number:

1193614

ADEC File Number:

2319.26.002

Hazard Identification Number:

22950

1193614

1. <u>Laboratory</u>

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

| | • | Yes | O No | Comments: | |
|--------------------------|---|---|--|--|---|
| | | | | | |
| | b. If alt | the sat ternate | mples were tra laboratory, w | nsferred to another "network" laboratory or sub as the laboratory performing the analyses ADEC | o-contracted to an C CS approved? |
| | 0 | Yes | • No | Comments: | |
| N/. | А | | | | |
| Chair | n of Cu | istody | (<u>CoC)</u> | | |
| a. | CoC i | inform | ation complete | ed, signed, and dated (including released/receive | ed by)? |
| | \odot | Yes | O No | Comments: | |
| Но | owever | the ch | ain of custody | seal was not attached to the cooler. | |
| b. | Corre | ct Ana | lyses requeste | d? | |
| | | | | | |
| | ۲ | Yes | © No | Comments: | |
| | ٥ | Yes | O No | Comments: | |
| Labor | • ratory S | Yes | © No e Receipt Docu | Comments: imentation | |
| Labor a. | • ratory S Samp | Yes Sample | © No e Receipt Docu | Comments: <u>imentation</u> e documented and within range at receipt (0° to | 6° C)? |
| Labor a. | • ratory <u>S</u> Samp | Yes Sample le/cool | © No e Receipt Docu ler temperature © No | Comments: <u>umentation</u> e documented and within range at receipt (0° to Comments: | 6° C)? |
| Labor a. | ratory S Samp | Yes Sample le/cool Yes ees Cels | © No e Receipt Docu er temperature © No sius | Comments: <u>umentation</u> e documented and within range at receipt (0° to Comments: | 6° C)? |
| Labor a. 2.4 b. | ratory S Sampi degree Sampi Volati | Yes Sample le/cool Yes es Cels le pres ile Chl | © No e Receipt Docu ler temperature © No sius ervation acceptorinated Solve | Comments: <u>umentation</u> e documented and within range at receipt (0° to Comments: vtable – acidified waters, Methanol preserved Vo ents, etc.)? | 6° C)? OC soil (GRO, BTEX, |
| Labor a. 2.4 b. | interior of the second | Yes Sample de/cool Yes es Cels de pres ile Chl Yes | © No e Receipt Docu er temperature © No sius ervation accep orinated Solve © No | Comments: <u>umentation</u> e documented and within range at receipt (0° to Comments: utable – acidified waters, Methanol preserved Vo ents, etc.)? Comments: | 6° C)? OC soil (GRO, BTEX, |
| Labor a. 2.4 b. | Tatory S Tatory S Sampi Tatory S Sa | Yes Sample de/cool Yes ees Cels de pres ile Chl Yes le cond | © No e Receipt Docu er temperature © No sius ervation accep orinated Solve © No | Comments: <u>umentation</u> e documented and within range at receipt (0° to Comments: otable – acidified waters, Methanol preserved Vo ents, etc.)? Comments: nted – broken, leaking (Methanol), zero headspa | 6° C)? OC soil (GRO, BTEX, ace (VOC vials)? |

1193614

| d. | If there were any discrepancies, were they documented? For example, incorrect sample |
|----|--|
| | containers/preservation, sample temperature outside of acceptable range, insufficient or missing |
| | samples, etc.? |

| | | Yes | © No | Comments: |
|----|-----|--------------|----------------------------|---|
| | | | | |
| | e. | Data quality | or usability affected? | |
| | | | | Comments: |
| ſ | Una | affected | | |
| 4. | Ca | se Narrative | | |
| | a. | Present and | understandable? | |
| | | Yes | © No | Comments: |
| | | | | |
| | b. | Discrepanci | es, errors, or QC failures | identified by the lab? |
| | | Yes | O No | Comments: |
| | No | one | | |
| | c. | Were all con | rrective actions document | red? |
| | | • Yes | O No | Comments: |
| | No | one | | |
| | d. | What is the | effect on data quality/usa | bility according to the case narrative? |
| | | | | Comments: |
| | No | effect. | | |
| Sa | mpl | es Results | | |
| | a. | Correct ana | lyses performed/reported | as requested on COC? |
| | | • Yes | C No | Comments: |
| | | | | |
| | b. | All applicat | ble holding times met? | |
| | | • Yes | © No | Comments: |
| | | | | |

5.

c. All soils reported on a dry weight basis?

| 🔿 Yes | O No | Comments: |
|---------------------------------|-------------------------|---|
| N/A. Water sau | nples | |
| d. Are the repo the project? | orted LOQs less than th | e Cleanup Level or the minimum required detection level for |
| • Yes | © No | Comments: |
| | | |

e. Data quality or usability affected?

| | O Yes | No | Comments: |
|--|-------|----|-----------|
|--|-------|----|-----------|

Not affected

6. <u>QC Samples</u>

- a. Method Blank
 - i. One method blank reported per matrix, analysis and 20 samples?

| • Yes O No | Comments: | |
|------------|-----------|--|
| | | |

AK101 & SW8021B

- ii. All method blank results less than limit of quantitation (LOQ)?
- Yes No Comments:

iii. If above LOQ, what samples are affected?

Comments:

None

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

○ Yes ○ No Comments:

N/A

v. Data quality or usability affected?

Comments:

Unaffected

- b. Laboratory Control Sample/Duplicate (LCS/LCSD)
 - i. Organics One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

| | • Yes | O No | Comments: |
|-----|---------------------------------|--|---|
| | | | |
| | ii. Meta 20 sa | als/Inorganics – one LCS a amples? | and one sample duplicate reported per matrix, analysis and |
| | O Yes | © No | Comments: |
| N/A | | | |
| | iii. Accu And AK1 | uracy – All percent recove project specified DQOs, i 02 75%-125%, AK103 60 | ries (%R) reported and within method or laboratory limits? f applicable. (AK Petroleum methods: AK101 60%-120%, 0%-120%; all other analyses see the laboratory QC pages) |
| | Yes | C No | Comments: |
| | | | |
| | iv. Prec labo LCS othe | ision – All relative percentratory limits? And project /LCSD, MS/MSD, and or r analyses see the laborato | t differences (RPD) reported and less than method or specified DQOs, if applicable. RPD reported from sample/sample duplicate. (AK Petroleum methods 20%; all ry QC pages) |
| | • Yes | C No | Comments: |
| | | | |
| | v. If % | R or RPD is outside of acc | ceptable limits, what samples are affected? |
| | | | Comments: |
| N/A | | | |
| | vi. Do t | he affected sample(s) have | e data flags? If so, are the data flags clearly defined? |
| | O Yes | C No | Comments: |
| N/A | | | |
| | vii.Data | quality or usability affect | ed? (Use comment box to explain.) |
| | | | Comments: |
| r | | | |

Unaffected

- c. Surrogates Organics Only
 - i. Are surrogate recoveries reported for organic analyses field, QC and laboratory samples?

• Yes • No Comments:

- ii. Accuracy All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
- Yes No Comments:
 - iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
- O Yes O No Comments:

N/A

iv. Data quality or usability affected?

Comments:

Unaffected

- d. Trip blank Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): <u>Water and</u> <u>Soil</u>
 - i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?(If not, enter explanation below.)
 - Yes No Comments:
 - ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

| O Yes O No | Comments: | |
|------------------------------|-----------|--|
| | | |
| iii. All results less than L | OQ? | |

• Yes • No Comments:

1193614

| iv. If above LOQ, what samples are affected? | f above LOQ, what | samples are | affected? |
|--|-------------------|-------------|-----------|
|--|-------------------|-------------|-----------|

Comments:

| None | |
|---|--|
| v. Data quality or usabi | ility affected? |
| | Comments: |
| Unaffected | |
| e. Field Duplicate | |
| i. One field duplicate s | ubmitted per matrix, analysis and 10 project samples? |
| • Yes O No | Comments: |
| No field duplicate collected | |
| ii. Submitted blind to la | ab? |
| O Yes 💿 No | Comments: |
| | |
| iii. Precision – All relati (Recommended: 309 RPD (%) = | ve percent differences (RPD) less than specified DQOs? % water, 50% soil) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \ge 100$ |
| | Where R_1 = Sample Concentration R_2 = Field Duplicate Concentration |
| • Yes O No | Comments: |
| iv. Data quality or usabi | ility affected? (Use the comment box to explain why or why not.) Comments: |
| Not affected | |
| | |

f. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below).

○ Yes ○ No ④ Not Applicable

No decon or equipment blank QC sampling performed

1193614

i. All results less than LOQ?

• Yes O No

Comments:

ii. If above LOQ, what samples are affected?

Comments:

None

iii. Data quality or usability affected?

Comments:

Unaffected

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

• Yes O No

Comments: