

SEPTEMBER 10, 2015

SOUTHWEST RESEARCH INSTITUTE®

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Chemistry and Chemical Engineering Division
Department of Analytical and Environmental Chemistry

September 10, 2015

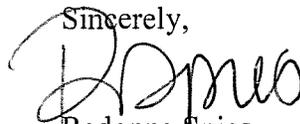
CH2M Hill Plateau Remediation Company
2420 Stevens Center Place
Mail Stop H8-41
Richland, WA 99352

Attn: David Todak

Subject: SAF No: F15-048
SDG Number: 579621
SwRI Project Number: 20859.01.00X
SwRI Task Order Number: 150807-12
SwRI Sample Receipt Number: 55929
Samples Received: 08.07.15
Fraction: Wetchem Analysis by Method 9056

Dear Mr. Todak:

Please find the enclosed results for the twenty (20) samples received on the above referenced date. If you should have any questions, please do not hesitate to call me at (210) 522-3242 or radonna.spies@swri.org.

Sincerely,

Radonna Spies
Group Leader

APPROVED:


for Michael J. Dammann
Director

RS: aa
Encl



DETROIT, MICHIGAN (248) 353-2550 • HOUSTON, TEXAS (713) 977-1377 • WASHINGTON, DC (301) 881-0226

SOUTHWEST RESEARCH INSTITUTE
CLIENT: CH2M Hill Plateau Remediation
Company
TASK ORDER(s): 150807-12
SRR: 55929
SDG: 579621
CASE: F15-048
VTSR: 08.07.15
PROJECT#: 20859.01.00X

NARRATIVE

CLIENT: CH2M Hill Plateau Remediation Company

SDG: 579621

SwRI Project Number: 20859.01.00X

SwRI Sample Receipt Number: 55929

Page#: 1

SwRI CASE NARRATIVE

1. Twenty (20) samples were received for Wetchem analysis:

| SwRI ID | Customer ID | Matrix |
|---------|-------------|--------|
| 579621 | B32D16 | Soil |
| 579622 | B32D19 | Soil |
| 579623 | B32D22 | Soil |
| 579624 | B32D25 | Soil |
| 579625 | B32D28 | Soil |
| 579626 | B32D31 | Soil |
| 579627 | B32D34 | Soil |
| 579628 | B32D37 | Soil |
| 579629 | B32D40 | Soil |
| 579630 | B32D43 | Soil |
| 579631 | B32D46 | Soil |
| 579632 | B32D49 | Soil |
| 579633 | B32D52 | Soil |
| 579634 | B32D55 | Soil |
| 579635 | B32D58 | Soil |
| 579636 | B32D61 | Soil |
| 579637 | B32D64 | Soil |
| 579638 | B32D67 | Soil |
| 579639 | B32D70 | Soil |
| 579640 | B32D73 | Soil |

Client: CH2M Hill Plateau Remediation Company
 SDG: 579621
 SwRI Project Number: 20933.01.006
 SwRI Task Order Number: 150807-12

Formic Acid

Soil samples were extracted at a 1:10 ratio using deionized water and were analyzed using a modified EPA 9056 within 24 hours of extraction. The standards were prepared and analyzed as formate. Sample results were converted to formic acid by applying the gravimetric factor of (FW formic acid / FW formate = 46/45 = 1.02). Instrument QC (ICV/CCVs and ICB/CCBs) are reported in the data package as formate. Results are reported on a dry-weight basis.

All samples were analyzed within the 28-day holding time and within 48 hours of extraction.

All ICV/CCVs were within 90-110% of the true values. The ICV/CCBs were below the instrument reporting limit of 0.1 mg/L formate. The procedure blank was less than the MDL and the laboratory control limits were within 20% of the true value. The sample and sample duplicate were non-detects; therefore, the RPD was 0%. The matrix spike was within 75-125% recovery.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature. This report shall not be reproduced except in full without the written approval of SwRI."



 Group Leader

09/04/15

 Date

**SOUTHWEST RESEARCH INSTITUTE
CLIENT: CH2M Hill Plateau Remediation
Company
TASK ORDER(s): 150807-12
SRR: 55929
SDG: 579621
CASE: F15-048
VTSR: 08.07.15
PROJECT#: 20859.01.00X**

**SAMPLE RECEIPT, TASK ORDER
&
CHAIN OF CUSTODY**

000005

Sample Receipt

Southwest Research Institute

VTSR: 08/07/15

Time: 08:30:00

Project: 20859.01.00X

Sample Receipt Number: 55929

Revision: 1

Manager: SPIES, RADONNA

Case #: 303757

This Receipt was Revised 09/09/2015

Logged in by: SDOUGLAS

Client: CH2M Hill Plateau Remediation Company

Creation Date: 08/07/15

Notes

Samples were received intact. (wet ice)

Fed Ex Tracking #:

774217453831 - 1.2 °C

774226406510 - 1.5 °C

774225375842 - 1.5 °C

Parameters: Analysis/located on Task Order.

See chain-of-custody as part of the SRR system for more information.

Phases:

001 - admin

006 - wetchem

REVISION 1, DRmz 09/09/15: SRR revised to change the project number to 20859.01.00X from 20933.01.006. At the time project 20859 was provided to the labs, all work associated with the samples under Sample Receipt 55929 was all complete. Majority of the data will still reference 20933.

Background CPM: <100 cpm
 Container Wipe CPM: <100 cpm
 Total CPM: <100

| System ID | Customer ID | CED | Matrix | Containers | Special Reqs. |
|-----------|-------------|----------|--------|------------|---------------|
| 579621 | B32D16 | 08/06/15 | Soil | 1 | |
| 579622 | B32D19 | 08/06/15 | Soil | 1 | |
| 579623 | B32D22 | 08/06/15 | Soil | 1 | |
| 579624 | B32D25 | 08/06/15 | Soil | 1 | |
| 579625 | B32D28 | 08/06/15 | Soil | 1 | |
| 579626 | B32D31 | 08/06/15 | Soil | 1 | |
| 579627 | B32D34 | 08/06/15 | Soil | 1 | |
| 579628 | B32D37 | 08/06/15 | Soil | 1 | |
| 579629 | B32D40 | 08/06/15 | Soil | 1 | |
| 579630 | B32D43 | 08/06/15 | Soil | 1 | |
| 579631 | B32D46 | 08/06/15 | Soil | 1 | |
| 579632 | B32D49 | 08/06/15 | Soil | 1 | |
| 579633 | B32D52 | 08/06/15 | Soil | 1 | |
| 579634 | B32D55 | 08/06/15 | Soil | 1 | |
| 579635 | B32D58 | 08/06/15 | Soil | 1 | |
| 579636 | B32D61 | 08/06/15 | Soil | 1 | |
| 579637 | B32D64 | 08/06/15 | Soil | 1 | |
| 579638 | B32D67 | 08/06/15 | Soil | 1 | |
| 579639 | B32D70 | 08/06/15 | Soil | 1 | |
| 579640 | B32D73 | 08/06/15 | Soil | 1 | |
| 579641 | B32D76 | 08/06/15 | Soil | 1 | |
| 579642 | B32DK9 | 08/06/15 | Soil | 1 | |
| 579643 | B32DLO | 08/06/15 | Soil | 1 | |
| 579644 | B32F19 | 08/06/15 | Soil | 1 | |
| 579645 | B32F22 | 08/06/15 | Soil | 1 | |

55929 CH2M Hill Plateau Remediation

Sample Receipt

Southwest Research Institute

VTSR: 08/07/15

Time: 08:30:00

Project: 20859.01.00X

Sample Receipt Number: 55929

Revision: 1

Manager: SPIES, RADONNA

Case #: 303757

This Receipt was Revised 09/09/2015

Logged in by: SDOUGLAS

Client: CH2M Hill Plateau Remediation Company

Creation Date: 08/07/15

| System ID | Customer ID | CED | Matrix | Containers | Special Reqs. |
|-----------|-------------|----------|--------|------------|---------------|
| 579646 | B32F25 | 08/06/15 | Soil | 1 | |
| 579647 | B32F28 | 08/06/15 | Soil | 1 | |
| 579648 | B32F31 | 08/06/15 | Soil | 1 | |

Containers: 28

Samples: 28

These documents are associated with this receipt: 184038[COC for SRR 55929], 184039[SRR Paperwork for SRR 55929]

Thermometer: 021056
Temperature: 1.2

55929 CH2M Hill Plateau Remediation

Southwest Research Institute

Laboratory Task Order

TO #: 150807-12 Revision: 1

Project(s): 20859.01.00X
 Manager(s): SPIES, RADONNA
 To Client: 09/03/15

SDG: 579621
 VTSR: 08/07/15
 CASE: F15-048

SRR #s: 55929
 Client(s): CH2M Hill Plateau Remediation Company

Instructions

CH2M Hill Plateau Remediation Company (CHPRC) SAF No.: F15-048. COA 303757

SDG is 579621. SDG IS CLOSED.

30-day TAT. Using 27-day TAT for Report/EDD
 FINAL DATA/HARDCOPY IS DUE TO THE CLIENT ON 09/06/15.

28 overall SOIL samples (28 containers) were received on 08/07/15.
 OUT of the 28 samples, ONLY 20 are listed on this Task Order.

MS/MSD _ Select a sample with sufficient volume.

9056 _ Anions _ Formate

- See Section 4.3.3 Detection Limits
- See Section 4.3.4 Reporting Limits
- See Section 6.3.3 Quality Control (QC)
- See Section 7.2.3 Final Data Package Requirements

Qualifier flags shall be based on those defined in the most current version of CP-15383, Common Requirements of the Format for Electronic Analytical Data (FEAD), (available at: <http://www.hanford.gov/docs/epp/library/programdocs/CP-15383.pdf>) (FEAD). Additional flags may also be applied as long as their use has been approved by both the Contractor and POC.
 See Section 7.3 Electronic Data Deliverables

Contact:
 David Todak, David_Todak@rl.gov
 Office: 509-376-6427, Cell: 509 947-1305
 CHPRC Sample Management Office

REVISION 1, DRmz 09/09/15: SRR revised to change the project number to 20859.01.00X from 20933.01.006. At the time project 20859 was provided to the labs, all work associated with the samples under Sample Receipt 55929 was all complete. Majority of the data will still reference 20933.

Documents Related to this task order: 184038[COC for SRR 55929], 184039[SRR Paperwork for SRR 55929]

Deliverables --> Hard Copy: no EDD: -YES- PDF: -YES-

Test: IC-9056

Holding: 28 days from CED

Section: WETCHEM

IC Method 9056 - Formate

Cnt: 20

| System ID | Type | Cont | Matrix | Customer ID | CED | Method Date |
|-----------|------|------|--------|-------------|-----------|-------------|
| 579621 | | 1 | Soil | B32D16 | 06 Aug 15 | 03 Sep 15 |
| 579622 | | 1 | Soil | B32D19 | 06 Aug 15 | 03 Sep 15 |
| 579623 | | 1 | Soil | B32D22 | 06 Aug 15 | 03 Sep 15 |
| 579624 | | 1 | Soil | B32D25 | 06 Aug 15 | 03 Sep 15 |
| 579625 | | 1 | Soil | B32D28 | 06 Aug 15 | 03 Sep 15 |
| 579626 | | 1 | Soil | B32D31 | 06 Aug 15 | 03 Sep 15 |
| 579627 | | 1 | Soil | B32D34 | 06 Aug 15 | 03 Sep 15 |
| 579628 | | 1 | Soil | B32D37 | 06 Aug 15 | 03 Sep 15 |
| 579629 | | 1 | Soil | B32D40 | 06 Aug 15 | 03 Sep 15 |
| 579630 | | 1 | Soil | B32D43 | 06 Aug 15 | 03 Sep 15 |
| 579631 | | 1 | Soil | B32D46 | 06 Aug 15 | 03 Sep 15 |
| 579632 | | 1 | Soil | B32D49 | 06 Aug 15 | 03 Sep 15 |
| 579633 | | 1 | Soil | B32D52 | 06 Aug 15 | 03 Sep 15 |
| 579634 | | 1 | Soil | B32D55 | 06 Aug 15 | 03 Sep 15 |
| 579635 | | 1 | Soil | B32D58 | 06 Aug 15 | 03 Sep 15 |
| 579636 | | 1 | Soil | B32D61 | 06 Aug 15 | 03 Sep 15 |

Southwest Research Institute

Laboratory Task Order

TO #: 150807-12 Revision: 1

SDG: 579621
 VTSR: 08/07/15
 CASE: F15-048

SRR #'s: 55929
 Client(s): CH2M Hill Plateau Remediation Company

Project(s): 20859.01.00X
 Manager(s): SPIES, RADONNA
 To Client: 09/03/15

| System ID | Type | Cont | Matrix | Customer ID | GED | Method Date |
|-----------|------|------|--------|-------------|-----------|-------------|
| 579637 | | 1 | Soil | B32D64 | 06 Aug 15 | 03 Sep 15 |
| 579638 | | 1 | Soil | B32D67 | 06 Aug 15 | 03 Sep 15 |
| 579639 | | 1 | Soil | B32D70 | 06 Aug 15 | 03 Sep 15 |
| 579640 | | 1 | Soil | B32D73 | 06 Aug 15 | 03 Sep 15 |

| | | | | | |
|---|--|--|--|--|---|
| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-001 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-1 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | DATA TURNAROUND 30 Days / 30 Days |
| ICE CHEST NO. GWS-426 | | FIELD LOGBOOK NO. HNF-N-507-21-71 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | AIR QUALITY <input type="checkbox"/> |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 5869 | | BILL OF LADING/AIR BILL NO. 7742 2640 6510 | |
| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | | METHOD OF SHIPMENT FEDERAL EXPRESS | |
| SPECIAL HANDLING AND/OR STORAGE N/A | | PRESERVATION Cool <=6C | HOLDING TIME 28 Days/48 Hours | ORIGINAL | |
| | | TYPE OF CONTAINER G/P | NO. OF CONTAINER(S) 1 | | |
| | | VOLUME 250mL | SAMPLE ANALYSIS 9056_ANIONS_IC: COMMON (Add-on) (Formate); | | |

| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME | |
|------------|---------|-------------|-------------|---|
| B32D16 | SOIL | AUG 06 2015 | 0954 | ✓ |

| CHAIN OF POSSESSION | SIGN/ PRINT NAMES | SPECIAL INSTRUCTIONS |
|---|-------------------------------|---|
| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | DATE/TIME AUG 06 2015 1110 | RECEIVED BY/STORED IN E.L. Kauer |
| RELINQUISHED BY/REMOVED FROM E.L. Kauer | DATE/TIME AUG 06 2015 1400 | RECEIVED BY/STORED IN CHPRC |
| RELINQUISHED BY/REMOVED FROM FedEx | DATE/TIME 8/7/15 0830 | RECEIVED BY/STORED IN Steven Douglas |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |

Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929
 SwRI Project # 20933.01.006 Case: 303757
 VTSR: 08/07/15 08:30 Sample(s) Received: Intact
 Battery Check: Y Background Check: <100 cpm (Lab 103)
 Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056
 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3
 (see Radioactive Material Receiving Form for more information)

| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
|--------------------------|-----------------|-------------|-----------|
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

600009

| | | | | | |
|--|--|--|--|---|--|
| CH2M Hill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-004 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-2 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | DATA TURNAROUND 30 Days / 30 Days |
| ICE CHEST NO. <i>GWS-426</i> | | FIELD LOGBOOK NO. <i>HNF-N507-31-71</i> | ACTUAL SAMPLE DEPTH <i>0-12"</i> | COA 303757 | METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. <i>5869</i> | | BILL OF LADING/AIR BILL NO. <i>7742 2640 6510</i> | |

| | | | | |
|---|--|--|--------------------|---|
| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION | Cool <=6C | |
| | HOLDING TIME | 28 Days/48 Hours | | |
| | TYPE OF CONTAINER | G/P | | |
| | NO. OF CONTAINER(S) | 1 | | |
| | VOLUME | 250mL | | |
| SPECIAL HANDLING AND/OR STORAGE N/A | SAMPLE ANALYSIS | 9056_ANIONS_IC: COMMON (Add-on) (Formate); | | |
| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME | ✓ |
| B32D19 | SOIL | AUG 06 2015 | 1022 | |

| CHAIN OF POSSESSION | SIGN/ PRINT NAMES | SPECIAL INSTRUCTIONS |
|---|--|---|
| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | DATE/TIME AUG 06 2015 ¹¹¹⁰ | RECEIVED BY/STORED IN E.L. Kauer |
| RELINQUISHED BY/REMOVED FROM E.L. Kauer | DATE/TIME AUG 06 2015 ¹²⁰⁰ | RECEIVED BY/STORED IN CHPRC |
| RELINQUISHED BY/REMOVED FROM FEDEX | DATE/TIME 8/7/15 0830 | RECEIVED BY/STORED IN <i>[Signature]</i> |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |

Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929
 SwRI Project # 20933.01.006 Case: 303757
 VTSR: 08/07/15 08:30 Sample(s) Received: Intact
 Battery Check: Y Background Check: <100 cpm (Lab 103)
 Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056
 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3
 (see Radioactive Material Receiving Form for more information)

| | | | |
|---------------------------------|-----------------|-------------|-----------|
| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

000010

SEPTEMBER 10, 2015

| | | | | | | |
|---|--|---|-------------------------------------|--|---|---|
| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | F15-048-007 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H | DATA TURNAROUND 30 Days / 30 Days |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-3 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | AIR QUALITY <input type="checkbox"/> | |
| ICE CHEST NO. GWS-426 | | FIELD LOGBOOK NO. HNF-N-507- <u>31-71</u> | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL | |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 5869 | | BILL OF LADING/AIR BILL NO. 7742 2640 6510 | | |

| | | | |
|--|--|---------------------------------|--|
| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION | Cool <=6C |
| | | HOLDING TIME | 28 Days/48 Hours |
| | | TYPE OF CONTAINER | G/P |
| | | NO. OF CONTAINER(S) | 1 |
| | | VOLUME | 250mL |
| | | SPECIAL HANDLING AND/OR STORAGE | N/A |
| | | SAMPLE ANALYSIS | 9056_ANIONS_IC: COMMON (Add-on) (Formate); |
| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME |
| B32D22 | SOIL | AUG 06 2015 | 0940 ✓ |

| CHAIN OF POSSESSION | SIGN/ PRINT NAMES | SPECIAL INSTRUCTIONS |
|---|-------------------------------|--|
| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | DATE/TIME AUG 06 2015 110 | RECEIVED BY/STORED IN E.L. Kauer CHPRC |
| RELINQUISHED BY/REMOVED FROM E.L. Kauer CHPRC | DATE/TIME AUG 06 2015 1400 | RECEIVED BY/STORED IN FEDEX |
| RELINQUISHED BY/REMOVED FROM FedEx | DATE/TIME 8/11/15 0830 | RECEIVED BY/STORED IN [Signature] |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |

Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929
 SwRI Project # 20933.01.006 Case: 303757
 VTSR: 08/07/15 08:30 Sample(s) Received: Intact
 Battery Check: Y Background Check: <100 cpm (Lab 103)
 Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056
 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3
 (see Radioactive Material Receiving Form for more information)

| | | | |
|--------------------------|-----------------|-------------|-----------|
| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

000011

SEPTEMBER 10, 2015

| | | | | | |
|---|--|---|------------------------------|---|---|
| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-010 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H DATA TURNAROUND 30 Days / 30 Days |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-4 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | AIR QUALITY <input type="checkbox"/> |
| ICE CHEST NO. 625-320 | | FIELD LOGBOOK NO. HNF-N-507-31-87 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 5868 | | BILL OF LADING/AIR BILL NO. 7742 2537 5842 | |

| | | | | |
|--|--|--|--------------------|---|
| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION | Cool <=6C | |
| | | HOLDING TIME | 28 Days/48 Hours | |
| | | TYPE OF CONTAINER | G/P | |
| | | NO. OF CONTAINER(S) | 1 | |
| | | VOLUME | 250mL | |
| | | SPECIAL HANDLING AND/OR STORAGE | N/A | |
| SAMPLE ANALYSIS | 9056_ANIONS_IC: COMMON (Add-on) (Formate); | | | |
| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME | |
| B32D25 | SOIL | AUG 05 2015 | 1148 | ✓ |

| | | | | |
|------------------------------|------------------|--------------------------|------------------|---|
| CHAIN OF POSSESSION | | SIGN/ PRINT NAMES | | SPECIAL INSTRUCTIONS |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | TRVL-15-136 Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929 SwRI Project # 20933.01.006 Case: 303757 VTSR: 08/07/15 08:30 Sample(s) Received: Intact Battery Check: Y Background Check: <100 cpm (Lab 103) Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3 (see Radioactive Material Receiving Form for more information) |
| F.M. Hall/CHPRC | AUG 05 2015 1412 | SSU-1 | AUG 05 2015 1412 | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |
| SSU-1 | AUG 06 2015 0805 | E.L. Kauer | AUG 06 2015 0805 | |
| E.L. Kauer | AUG 06 2015 1400 | CHPRC | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |
| CHPRC | AUG 06 2015 1400 | FEDEX | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |
| FEDEX | 8/17/15 0830 | | 8/17/15 0830 | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |

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| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

000012

SEPTEMBER 10, 2015

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| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | F15-048-013 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | | PRICE CODE 8H | DATA TURNAROUND 30 Days / 30 Days |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-5 | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | | AIR QUALITY <input type="checkbox"/> | |
| ICE CHEST NO. 605-324 | FIELD LOGBOOK NO. HNF-N-507-31.71 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | | METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL | |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 58608 | | BILL OF LADING/AIR BILL NO. 7742 25375842 | | |

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| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION | Cool <=6C |
| | | HOLDING TIME | 28 Days/48 Hours |
| | | TYPE OF CONTAINER | G/P |
| | | NO. OF CONTAINER(S) | 1 |
| | | VOLUME | 250mL |
| SPECIAL HANDLING AND/OR STORAGE N/A | | SAMPLE ANALYSIS 9056_ANIONS_IC: COMMON (Add-on) (Formate); | |
| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME |
| B32D28 | SOIL | AUG 06 2015 | 0858 ✓ |

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| CHAIN OF POSSESSION | | SIGN/ PRINT NAMES | | SPECIAL INSTRUCTIONS | |
| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | DATE/TIME AUG 06 2015 0830 | RECEIVED BY/STORED IN E.L. Kauer/CHPRC | DATE/TIME AUG 06 2015 0830 | TRVL-15-136 | |
| RELINQUISHED BY/REMOVED FROM E.L. Kauer/CHPRC | DATE/TIME AUG 06 2015 1400 | RECEIVED BY/STORED IN FEDEX | DATE/TIME | Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929 SwRI Project # 20933.01.006 Case: 303757 VTSR: 08/07/15 08:30 Sample(s) Received: Intact Battery Check: Y Background Check: <100 cpm (Lab 103) Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3 (see Radioactive Material Receiving Form for more information) | |
| RELINQUISHED BY/REMOVED FROM FEDEX | DATE/TIME 8/7/15 0830 | RECEIVED BY/STORED IN | DATE/TIME 8/7/15 0830 | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |

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| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

000013

SEPTEMBER 10 2015

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| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | F15-048-016 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H | DATA TURNAROUND 30 Days / 30 Days |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-6 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | AIR QUALITY <input type="checkbox"/> | |
| ICE CHEST NO. GWS-320 | | FIELD LOGBOOK NO. HNF-N-507-31-71 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | METHOD OF SHIPMENT FEDERAL EXPRESS | ORIGINAL |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 5868 | | BILL OF LADING/AIR BILL NO. 7742 2537 5842 | | |
| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION Cool <=6C | HOLDING TIME 28 Days/48 Hours | TYPE OF CONTAINER G/P | NO. OF CONTAINER(S) 1 | VOLUME 250mL |
| | SPECIAL HANDLING AND/OR STORAGE N/A | SAMPLE ANALYSIS 9056_ANIONS_ IC: COMMON (Add-on) {Formate}; | | | | |
| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME | | | |
| B32D31 | SOIL | AUG 06 2015 | 0905 | ✓ | | |

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| CHAIN OF POSSESSION | | SIGN/ PRINT NAMES | | SPECIAL INSTRUCTIONS | |
| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | DATE/TIME AUG 06 2015 0830 | RECEIVED BY/STORED IN E.L. Kauer | DATE/TIME AUG 06 2015 0930 | TRVL-15-136 | |
| RELINQUISHED BY/REMOVED FROM E.L. Kauer | DATE/TIME AUG 06 2015 1400 | RECEIVED BY/STORED IN CHPRC | DATE/TIME | Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929 SwRI Project # 20933.01.006 Case: 303757 VTSR: 08/07/15 08:30 Sample(s) Received: Intact Battery Check: Y Background Check: <100 cpm (Lab 103) Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3 (see Radioactive Material Receiving Form for more information) | |
| RELINQUISHED BY/REMOVED FROM FEDEX | DATE/TIME 8/7/15 0830 | RECEIVED BY/STORED IN FEDEX | DATE/TIME 8/7/15 0830 | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |
| LABORATORY SECTION | RECEIVED BY | TITLE | | DATE/TIME | |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | | DATE/TIME | |

000014

SEPTEMBER 10, 2015

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| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-019 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H DATA TURNAROUND 30 Days / 30 Days |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-7 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | AIR QUALITY <input type="checkbox"/> |
| ICE CHEST NO. 605-320 | | FIELD LOGBOOK NO. HNF-N-507-31-71 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 5868 | | BILL OF LADING/AIR BILL NO. 7742 25375842 | |

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| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION | Cool <=6C |
| | | HOLDING TIME | 28 Days/48 Hours |
| | | TYPE OF CONTAINER | G/P |
| | | NO. OF CONTAINER(S) | 1 |
| | | VOLUME | 250mL |
| SPECIAL HANDLING AND/OR STORAGE N/A | | SAMPLE ANALYSIS | 9056_ANIONS_IC: COMMON (Add-on) (Formate); |
| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME |
| B32D34 | SOIL | AUG 06 2015 | 0822 ✓ |

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| CHAIN OF POSSESSION | | SIGN/ PRINT NAMES | | SPECIAL INSTRUCTIONS |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | TRVL-15-136 Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929 SwRI Project # 20933.01.006 Case: 303757 VTSR: 08/07/15 08:30 Sample(s) Received: Intact Battery Check: Y Background Check: <100 cpm (Lab 103) Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3 (see Radioactive Material Receiving Form for more information) |
| F.M. Hall/CHPRC | AUG 06 2015 0917 | E.L. Kauer CHPRC | AUG 06 2015 0917 | |
| E.L. Kauer | AUG 06 2015 1400 | FEDEX | | |
| FEDEX | 8/17/15 0830 | FEDEX | 8/17/15 0830 | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |

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| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

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SEPTEMBER 10, 2015

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| CH2M Hill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-022 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H | DATA TURNAROUND 30 Days / 30 Days |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-8 | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | SAF NO. F15-048 | AIR QUALITY <input type="checkbox"/> | METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL | |
| ICE CHEST NO. GWS-320 | FIELD LOGBOOK NO. HNF-N507-31-71 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | BILL OF LADING/AIR BILL NO. 7742 2537 5842 | |
| SHIPPED TO Southwest Research Institute | OFFSITE PROPERTY NO. 5868 | | | | |

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| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION Cool <=6C | | |
| | | HOLDING TIME 28 Days/48 Hours | | |
| | | TYPE OF CONTAINER G/P | | |
| | | NO. OF CONTAINER(S) 1 | | |
| | | VOLUME 250mL | | |
| | SPECIAL HANDLING AND/OR STORAGE N/A | SAMPLE ANALYSIS 9056 ANIONS-IC: COMMON (Add-on) (Formate); | | |
| SAMPLE NO. B32D37 | MATRIX* SOIL | SAMPLE DATE AUG 06 2015 | SAMPLE TIME 0838 | <input checked="" type="checkbox"/> |

| CHAIN OF POSSESSION | SIGN/ PRINT NAMES |
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| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | RECEIVED BY/STORED IN E.L. Kauer |
| DATE/TIME AUG 06 2015 0930 | DATE/TIME AUG 06 2015 0930 |
| RELINQUISHED BY/REMOVED FROM E.L. Kauer | RECEIVED BY/STORED IN CHPRC |
| DATE/TIME AUG 06 2015 1400 | DATE/TIME AUG 06 2015 1400 |
| RELINQUISHED BY/REMOVED FROM FEDEX | RECEIVED BY/STORED IN FEDEX |
| DATE/TIME 8/7/15 0830 | DATE/TIME 8/7/15 0830 |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |

SPECIAL INSTRUCTIONS
TRVL-15-136

Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929
 SwRI Project # 20933.01.006 Case: 303757
 VTSR: 08/07/15 08:30 Sample(s) Received: Intact
 Battery Check: Y Background Check: <100 cpm (Lab 103)
 Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056
 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3
 (see Radioactive Material Receiving Form for more information)

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| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

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SEPTEMBER 10 2015

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| CH2M Hill Plateau Remediation Company | | CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST | | F15-048-025 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H AIR QUALITY <input type="checkbox"/> |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-9 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | DATA TURNAROUND 30 Days / 30 Days |
| ICE CHEST NO. 665-320 | | FIELD LOGBOOK NO. HNF-N-507-31-71 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 5868 | | BILL OF LADING/AIR BILL NO. 7742 2537 5842 | |

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| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION | Cool <=6C |
| | HOLDING TIME | 28 Days/48 Hours | |
| | TYPE OF CONTAINER | G/P | |
| | NO. OF CONTAINER(S) | 1 | |
| | VOLUME | 250mL | |
| | SPECIAL HANDLING AND/OR STORAGE | N/A | SAMPLE ANALYSIS |
| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME |
| B32D40 | SOIL | AUG 06 2015 | 0733 ✓ |

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| CHAIN OF POSSESSION | SIGN/ PRINT NAMES | SPECIAL INSTRUCTIONS |
| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | DATE/TIME AUG 06 2015 0930 | RECEIVED BY/STORED IN E.L. Kauer |
| RELINQUISHED BY/REMOVED FROM E.L. Kauer | DATE/TIME AUG 06 2015 1400 | RECEIVED BY/STORED IN FEDEX |
| RELINQUISHED BY/REMOVED FROM FedEx | DATE/TIME 8/7/15 0830 | RECEIVED BY/STORED IN [Signature] |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |

Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929
 SwRI Project # 20933.01.006 Case: 303757
 VTSR: 08/07/15 08:30 Sample(s) Received: Intact
 Battery Check: Y Background Check: <100 cpm (Lab 103)
 Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056
 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3
 (see Radioactive Material Receiving Form for more information)

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| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

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SEPTEMBER 10, 2015

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| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-028 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H | DATA TURNAROUND 30 Days / 30 Days |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-10 | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | SAF NO. F15-048 | AIR QUALITY <input type="checkbox"/> | METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL | |
| ICE CHEST NO. <i>GWS-320</i> | FIELD LOGBOOK NO. HNF-N-507- <i>31.71</i> | ACTUAL SAMPLE DEPTH <i>0-12"</i> | COA 303757 | BILL OF LADING/AIR BILL NO. <i>7742 25375842</i> | |
| SHIPPED TO Southwest Research Institute | OFFSITE PROPERTY NO. <i>5868</i> | PRESERVATION Cool <=6C | | | |

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| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION | Cool <=6C |
| | | HOLDING TIME | 28 Days/48 Hours |
| | | TYPE OF CONTAINER | G/P |
| | | NO. OF CONTAINER(S) | 1 |
| | | VOLUME | 250mL |
| SPECIAL HANDLING AND/OR STORAGE N/A | | SAMPLE ANALYSIS | 9056_ANIONS_IC: COMMON (Add-on) (Formate); |
| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME |
| B32D43 | SOIL | AUG 06 2015 | <i>0810</i> ✓ |

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| CHAIN OF POSSESSION | | SIGN/ PRINT NAMES | | SPECIAL INSTRUCTIONS |
| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | DATE/TIME AUG 06 2015 0917 | RECEIVED BY/STORED IN E.L. Kauer | DATE/TIME AUG 06 2015 0930 | TRVL-15-136 Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929 SwRI Project # 20933.01.006 Case: 303757 VTSR: 08/07/15 08:30 Sample(s) Received: Intact Battery Check: Y Background Check: <100 cpm (Lab 103) Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3 (see Radioactive Material Receiving Form for more information) |
| RELINQUISHED BY/REMOVED FROM E.L. Kauer | DATE/TIME AUG 06 2015 1400 | RECEIVED BY/STORED IN CHPRC | DATE/TIME | |
| RELINQUISHED BY/REMOVED FROM FEDEX | DATE/TIME 8/17/15 0830 | RECEIVED BY/STORED IN FEDEX | DATE/TIME 8/17/15 0830 | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |

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| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

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SEPTEMBER 10, 2015

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| CH2M Hill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-031 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H AIR QUALITY <input type="checkbox"/> |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-11 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | DATA TURNAROUND 30 Days / 30 Days |
| ICE CHEST NO. GWS-320 | | FIELD LOGBOOK NO. HNF-N-507-31-71 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 5868 | | BILL OF LADING/AIR BILL NO. 7742 2537 5842 | |

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| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION | Cool <=6C |
| | | HOLDING TIME | 28 Days/48 Hours |
| | | TYPE OF CONTAINER | G/P |
| | | NO. OF CONTAINER(S) | 1 |
| | | VOLUME | 250mL |
| | | SAMPLE ANALYSIS | 9056_ANIONS_IC: COMMON (Add-on) {Formate}; |
| SPECIAL HANDLING AND/OR STORAGE N/A | | | |

| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME | |
|------------|---------|-------------|-------------|---|
| B32D46 | SOIL | AUG 06 2015 | 0715 | ✓ |

| CHAIN OF POSSESSION | SIGN/ PRINT NAMES |
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| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC E.L. Kauer CHPRC | RECEIVED BY/STORED IN E.L. Kauer CHPRC |
| RELINQUISHED BY/REMOVED FROM FEDEX | RECEIVED BY/STORED IN FEDEX |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |

SPECIAL INSTRUCTIONS
TRVL-15-136

Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929
 SwRI Project # 20933.01.006 Case: 303757
 VTSR: 08/07/15 08:30 Sample(s) Received: Intact
 Battery Check: Y Background Check: <100 cpm (Lab 103)
 Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056
 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3
 (see Radioactive Material Receiving Form for more information)

| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
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| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |
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SEPTEMBER 10 2015

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| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-034 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H AIR QUALITY <input type="checkbox"/> |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-12 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | DATA TURNAROUND 30 Days / 30 Days |
| ICE CHEST NO. GWS-320 | | FIELD LOGBOOK NO. HNF-N-507-31-67 | ACTUAL SAMPLE DEPTH D-12" | COA 303757 | METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 5868 | | BILL OF LADING/AIR BILL NO. 7742 2537 5842 | |

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| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION | Cool <=6C |
| | HOLDING TIME | 28 Days/48 Hours | |
| | TYPE OF CONTAINER | G/P | |
| | NO. OF CONTAINER(S) | 1 | |
| | VOLUME | 250mL | |
| | SPECIAL HANDLING AND/OR STORAGE | N/A | SAMPLE ANALYSIS |
| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME |
| B32D49 | SOIL | AUG 05 2015 | 1347 ✓ |

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| CHAIN OF POSSESSION | SIGN/ PRINT NAMES | SPECIAL INSTRUCTIONS |
| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | DATE/TIME AUG 05 2015 1412 | RECEIVED BY/STORED IN SSU-1 |
| RELINQUISHED BY/REMOVED FROM SSU-1 | DATE/TIME AUG 06 2015 0830 | RECEIVED BY/STORED IN E.L. Kauer |
| RELINQUISHED BY/REMOVED FROM CHPRC | DATE/TIME AUG 06 2015 1400 | RECEIVED BY/STORED IN FEDEX |
| RELINQUISHED BY/REMOVED FROM FEDEX | DATE/TIME 8/7/15 0830 | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN |

Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929
 SwRI Project # 20933.01.006 Case: 303757
 VTSR: 08/07/15 08:30 Sample(s) Received: Intact
 Battery Check: Y Background Check: <100 cpm (Lab 103)
 Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056
 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3
 (see Radioactive Material Receiving Form for more information)

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| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

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SEPTEMBER 10, 2015

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| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-037 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H | DATA TURNAROUND 30 Days / 30 Days |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-13 | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | SAF NO. F15-048 | AIR QUALITY <input type="checkbox"/> | | |
| ICE CHEST NO. GWS-320 | FIELD LOGBOOK NO. HNF-N-507-31-67 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | METHOD OF SHIPMENT FEDERAL EXPRESS | ORIGINAL |
| SHIPPED TO Southwest Research Institute | OFFSITE PROPERTY NO. 5868 | BILL OF LADING/AIR BILL NO. 7742 2537 5842 | | | |

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|--|--|---|----------------------------|-------------------------------------|
| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION Cool <=6C | | |
| | | HOLDING TIME 28 Days/48 Hours | | |
| | | TYPE OF CONTAINER G/P | | |
| | | NO. OF CONTAINER(S) 1 | | |
| | | VOLUME 250mL | | |
| | SPECIAL HANDLING AND/OR STORAGE N/A | SAMPLE ANALYSIS 9056_ANIONS IC: COMMON (Add-on) {Formate}; | | |
| SAMPLE NO. B32D52 | MATRIX* SOIL | SAMPLE DATE AUG 05 2015 | SAMPLE TIME 1322 | <input checked="" type="checkbox"/> |

| CHAIN OF POSSESSION | SIGN/ PRINT NAMES |
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| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | RECEIVED BY/STORED IN SSU-1 |
| DATE/TIME AUG 05 2015 1412 | DATE/TIME AUG 05 2015 1412 |
| RELINQUISHED BY/REMOVED FROM SSU-1 | RECEIVED BY/STORED IN E.L. Kauer |
| DATE/TIME AUG 06 2015 0830 | DATE/TIME AUG 06 2015 0830 |
| RELINQUISHED BY/REMOVED FROM E.L. Kauer | RECEIVED BY/STORED IN CHPRC |
| DATE/TIME AUG 06 2015 1400 | DATE/TIME AUG 06 2015 0830 |
| RELINQUISHED BY/REMOVED FROM CHPRC | RECEIVED BY/STORED IN FEDEX |
| DATE/TIME 8/7/15 0830 | DATE/TIME 8/7/15 0830 |
| RELINQUISHED BY/REMOVED FROM FEDEX | RECEIVED BY/STORED IN |
| DATE/TIME | DATE/TIME |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |
| DATE/TIME | DATE/TIME |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |
| DATE/TIME | DATE/TIME |

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| SPECIAL INSTRUCTIONS TRVL-15-136 Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929 SwRI Project # 20933.01.006 Case: 303757 VTSR: 08/07/15 08:30 Sample(s) Received: Intact Battery Check: Y Background Check: <100 cpm (Lab 103) Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3 (see Radioactive Material Receiving Form for more information) |
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| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

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SEPTEMBER 10 2015

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| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-040 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H DATA TURNAROUND 30 Days / 30 Days |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-13 Duplicate | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | AIR QUALITY <input type="checkbox"/> |
| ICE CHEST NO. 6WS-320 | | FIELD LOGBOOK NO. HNF-N-507-31-67 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 5868 | | BILL OF LADING/AIR BILL NO. 7742 2537 5842 | |

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|--|--|---|----------------------------|-------------------------------------|
| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION Cool <=6C | | |
| | SPECIAL HANDLING AND/OR STORAGE N/A | HOLDING TIME 28 Days/48 Hours | | |
| | | TYPE OF CONTAINER G/P | | |
| | | NO. OF CONTAINER(S) 1 | | |
| | | VOLUME 250mL | | |
| SAMPLE ANALYSIS 9056_ANIONS_ IC: COMMON (Add-on) {Formate}; | | | | |
| SAMPLE NO. B32D55 | MATRIX* SOIL | SAMPLE DATE AUG 0 5 2015 | SAMPLE TIME 1322 | <input checked="" type="checkbox"/> |

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| CHAIN OF POSSESSION | | SIGN/ PRINT NAMES | | SPECIAL INSTRUCTIONS |
| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | DATE/TIME AUG 0 5 2015 1412 | RECEIVED BY/STORED IN SSU-1 | DATE/TIME AUG 0 5 2015 1412 | TRVL-15-136 Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929 SwRI Project # 20933.01.006 Case: 303757 VTSR: 08/07/15 08:30 Sample(s) Received: Intact Battery Check: Y Background Check: <100 cpm (Lab 103) Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3 (see Radioactive Material Receiving Form for more information) |
| RELINQUISHED BY/REMOVED FROM SSU-1 | DATE/TIME AUG 0 6 2015 0830 | RECEIVED BY/STORED IN CHPRC | DATE/TIME AUG 0 6 2015 0830 | |
| RELINQUISHED BY/REMOVED FROM E.L. Kauer | DATE/TIME AUG 0 6 2015 1400 | RECEIVED BY/STORED IN FEDEX | DATE/TIME 8/7/15 | |
| RELINQUISHED BY/REMOVED FROM CHPRC | DATE/TIME 8/7/15 0830 | RECEIVED BY/STORED IN [Signature] | DATE/TIME 8/7/15 830 | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |

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| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

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| CH2M Hill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-043 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-14 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | DATA TURNAROUND 30 Days / 30 Days |
| ICE CHEST NO. 645-320 | | FIELD LOGBOOK NO. HNF -N-507-31-67 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | AIR QUALITY <input type="checkbox"/> |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 5868 | BILL OF LADING/AIR BILL NO. 7742 2537 5842 | | |
| METHOD OF SHIPMENT FEDERAL EXPRESS | | ORIGINAL | | | |

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| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION Cool <=6C | | |
| | SPECIAL HANDLING AND/OR STORAGE N/A | HOLDING TIME 28 Days/48 Hours | | |
| | | TYPE OF CONTAINER G/P | | |
| | | NO. OF CONTAINER(S) 1 | | |
| | | VOLUME 250mL | | |
| SAMPLE ANALYSIS 9056_ANIONS_IC: COMMON (Add-on) (Formate); | | | | |
| SAMPLE NO. B32D58 | MATRIX* SOIL | SAMPLE DATE AUG 05 2015 | SAMPLE TIME 1251 | <input checked="" type="checkbox"/> |

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| CHAIN OF POSSESSION | | SIGN/ PRINT NAMES | | SPECIAL INSTRUCTIONS | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | TRVL-15-136 | |
| F.M. Hall/CHPRC | AUG 05 2015 1412 | SSU-1 | AUG 05 2015 1412 | Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929 SwRI Project # 20933.01.006 Case: 303757 VTSR: 08/07/15 08:30 Sample(s) Received: Intact Battery Check: Y Background Check: <100 cpm (Lab 103) Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3 (see Radioactive Material Receiving Form for more information) | |
| SSU-1 | AUG 06 2015 0805 | E.L. Kauer | AUG 06 2015 0805 | | |
| E.L. Kauer | AUG 06 2015 1400 | CHPRC | | | |
| CHPRC | | FEDEX | | | |
| FEDEX | 8/7/15 0830 | | 8/7/15 0830 | | |
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| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |
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| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |
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| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

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SEPTEMBER 10 2015

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| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-046 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-15 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | DATA TURNAROUND 30 Days / 30 Days |
| ICE CHEST NO. GWS-320 | | FIELD LOGBOOK NO. HNF-N-507-31.67 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | AIR QUALITY <input type="checkbox"/> |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 5868 | BILL OF LADING/AIR BILL NO. 7742 2537 5842 | | |
| METHOD OF SHIPMENT FEDERAL EXPRESS | | ORIGINAL | | | |

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| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION Cool <=6C |
| | SPECIAL HANDLING AND/OR STORAGE N/A | HOLDING TIME 28 Days/48 Hours |
| | | TYPE OF CONTAINER G/P |
| | | NO. OF CONTAINER(S) 1 |
| | | VOLUME 250mL |
| SAMPLE ANALYSIS 9056_ANIONS_IC: COMMON (Add-on) (Formate); | | |

| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME | |
|------------|---------|-------------|-------------|---|
| B32D61 | SOIL | AUG 05 2015 | 1235 | ✓ |

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| CHAIN OF POSSESSION | | SIGN/ PRINT NAMES | | SPECIAL INSTRUCTIONS | |
| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | DATE/TIME AUG 03 2015 1412 | RECEIVED BY/STORED IN SSU-1 | DATE/TIME AUG 03 2015 1412 | TRVL-15-136 Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929 SwRI Project # 20933.01.006 Case: 303757 VTSR: 08/07/15 08:30 Sample(s) Received: Intact Battery Check: Y Background Check: <100 cpm (Lab 103) Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3 (see Radioactive Material Receiving Form for more information) | |
| RELINQUISHED BY/REMOVED FROM SSU-1 | DATE/TIME AUG 06 2015 0805 | RECEIVED BY/STORED IN E.L. Kauer | DATE/TIME AUG 06 2015 0805 | | |
| RELINQUISHED BY/REMOVED FROM E.L. Kauer | DATE/TIME AUG 06 2015 1400 | RECEIVED BY/STORED IN CHPRC | DATE/TIME | | |
| RELINQUISHED BY/REMOVED FROM FedEx | DATE/TIME 8/7/15 0830 | RECEIVED BY/STORED IN FEDEX | DATE/TIME 8/7/15 0830 | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |

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| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

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SEPTEMBER 10, 2015

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| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-049 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H DATA TURNAROUND 30 Days / 30 Days |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-16 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | AIR QUALITY <input type="checkbox"/> |
| ICE CHEST NO. 6655-320 | | FIELD LOGBOOK NO. HNF -N-507-31-67 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 5868 | | BILL OF LADING/AIR BILL NO. 7742 2537 5842 | |

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| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION | Cool <=6C |
| | | HOLDING TIME | 28 Days/48 Hours |
| | | TYPE OF CONTAINER | G/P |
| | | NO. OF CONTAINER(S) | 1 |
| | | VOLUME | 250mL |
| | | SPECIAL HANDLING AND/OR STORAGE | N/A |
| SAMPLE ANALYSIS 9056_ANIONS_IC: COMMON (Add-on) {Formate}; | | | |
| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME |
| B32D64 | SOIL | AUG 05 2015 | 1223 ✓ |

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| CHAIN OF POSSESSION | | SIGN/ PRINT NAMES | | SPECIAL INSTRUCTIONS |
| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | DATE/TIME AUG 05 2015 1412 | RECEIVED BY/STORED IN SSU-1 | DATE/TIME AUG 05 2015 1412 | TRVL-15-136 Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929 SwRI Project # 20933.01.006 Case: 303757 VTSR: 08/07/15 08:30 Sample(s) Received: Intact Battery Check: Y Background Check: <100 cpm (Lab 103) Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3 (see Radioactive Material Receiving Form for more information) |
| RELINQUISHED BY/REMOVED FROM SSU-1 | DATE/TIME AUG 06 2015 0805 | RECEIVED BY/STORED IN E.L. Kauer | DATE/TIME AUG 06 2015 0805 | |
| RELINQUISHED BY/REMOVED FROM CHPRC | DATE/TIME AUG 06 2015 1400 | RECEIVED BY/STORED IN FEDEX | DATE/TIME | |
| RELINQUISHED BY/REMOVED FROM FedEx | DATE/TIME 8/7/15 0830 | RECEIVED BY/STORED IN | DATE/TIME 8/7/15 0830 | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | |

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| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

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SEPTEMBER 10, 2015

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| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-052 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H DATA TURNAROUND 30 Days / 30 Days |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-17 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | AIR QUALITY <input type="checkbox"/> |
| ICE CHEST NO. 605-440 | | FIELD LOGBOOK NO. HNF-N-507-21-67 | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 5859 | | BILL OF LADING/AIR BILL NO. 77421745383 | |

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| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION | Cool <=6C | |
| | | HOLDING TIME | 28 Days/48 Hours | |
| | | TYPE OF CONTAINER | G/P | |
| | | NO. OF CONTAINER(S) | 1 | |
| | | VOLUME | 250mL | |
| | SPECIAL HANDLING AND/OR STORAGE N/A | SAMPLE ANALYSIS 9056_ANIONS_IC: COMMON (Add-on) (Formate); | | |
| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME | |
| B32D67 | SOIL | AUG 05 2015 | 1129 | ✓ |

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| CHAIN OF POSSESSION | | SIGN/ PRINT NAMES | | SPECIAL INSTRUCTIONS | |
| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | DATE/TIME AUG 05 2015 1140 | RECEIVED BY/STORED IN E.L. Kauer CHPRC | DATE/TIME AUG 05 2015 1140 | TRVL-15-136 Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929 SwRI Project # 20933.01.006 Case: 303757 VTSR: 08/07/15 08:30 Sample(s) Received: Intact Battery Check: Y Background Check: <100 cpm (Lab 103) Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3 (see Radioactive Material Receiving Form for more information) | |
| RELINQUISHED BY/REMOVED FROM E.L. Kauer | DATE/TIME AUG 05 2015 1400 | RECEIVED BY/STORED IN FEDEX | DATE/TIME | | |
| RELINQUISHED BY/REMOVED FROM CHPRC | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |
| RELINQUISHED BY/REMOVED FROM FEDEX | DATE/TIME 8/7/15 0830 | RECEIVED BY/STORED IN | DATE/TIME 8/7/15 0830 | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |
| LABORATORY SECTION | RECEIVED BY Art Arguello / ART ARGUELLO | TITLE SENIOR TECHNICIAN | DATE/TIME 8.7.15 / 0845 | | |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME | | |

000026

SEPTEMBER 10 2015

| | | | | | | |
|--|--|---|-------------------------------------|--|---------------------------------------|--------------------------------------|
| CH2M Hill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | F15-048-055 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H | DATA TURNAROUND 30 Days / 30 Days |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-18 | | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | | SAF NO. F15-048 | AIR QUALITY <input type="checkbox"/> | |
| ICE CHEST NO. 6W05-440 | | FIELD LOGBOOK NO. HNF -N-507- <u>3i-67</u> | ACTUAL SAMPLE DEPTH 0-12" | COA 303757 | METHOD OF SHIPMENT FEDERAL EXPRESS | ORIGINAL |
| SHIPPED TO Southwest Research Institute | | OFFSITE PROPERTY NO. 58591 | | BILL OF LADING/AIR BILL NO. 7742 1745 3831 | | |

| | | | |
|--|--|--|------------------|
| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION | Cool <=6C |
| | | HOLDING TIME | 28 Days/48 Hours |
| | | TYPE OF CONTAINER | G/P |
| | | NO. OF CONTAINER(S) | 1 |
| | | VOLUME | 250mL |
| SPECIAL HANDLING AND/OR STORAGE N/A | | SAMPLE ANALYSIS 9056_ANIONS_IC: COMMON (Add-on) (Formate); | |
| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME |
| B32D70 | SOIL | AUG 05 2015 | 1043 ✓ |

| | | | | | |
|------------------------------|-------------------------|--------------------------|-------------------------|--|--|
| CHAIN OF POSSESSION | | SIGN/ PRINT NAMES | | SPECIAL INSTRUCTIONS | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | TRVL-15-136 | |
| F.M. Hall/CHPRC | AUG 05 2015 1140 | E.L. Kauer | AUG 05 2015 1140 | Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929 SwRI Project # 20933.01.006 Case: 303757 VTSR: 08/07/15 08:30 Sample(s) Received: Intact Battery Check: Y Background Check: <100 cpm (Lab 103) Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056 Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3 (see Radioactive Material Receiving Form for more information) | |
| E.L. Kauer | AUG 05 2015 1400 | CHPRC | | | |
| CHPRC | | FEDEX | | | |
| FEDEX | 8/7/15 0830 | FEDEX | 8/7/15 0830 | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |
| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | | |

| | | | |
|--------------------------|-----------------|-------------------|-----------------------|
| LABORATORY SECTION | RECEIVED BY | TITLE | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |
| | <i>Arguello</i> | SENIOR TECHNICIAN | 08.7.15 / 0845 |

000027

SEPTEMBER 10, 2015

19103

| | | | | | |
|--|---|--|---|--------------------------------------|---|
| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F15-048-058 | PAGE 1 OF 1 |
| COLLECTOR F.M. Hall/CHPRC | COMPANY CONTACT TODAK, D | TELEPHONE NO. 376-6427 | PROJECT COORDINATOR TODAK, D | PRICE CODE 8H | DATA TURNAROUND 30 Days / 30 Days |
| SAMPLING LOCATION FS-1 Closure Confirmation: 1-19 | PROJECT DESIGNATION FS-1 Outdoor Container Storage Area - Soil Samples | SAF NO. F15-048 | COA 303757 | AIR QUALITY <input type="checkbox"/> | METHOD OF SHIPMENT FEDERAL EXPRESS |
| ICE CHEST NO. 6005-440 | FIELD LOGBOOK NO. HNF-N-507-31-67 | ACTUAL SAMPLE DEPTH 0-12" | BILL OF LADING/AIR BILL NO. 7742 1745 3831 | ORIGINAL | |
| SHIPPED TO Southwest Research Institute | OFFSITE PROPERTY NO. 5859 | | | | |

| | | | |
|--|---|--|---|
| MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other | POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. | PRESERVATION | Cool <=6C |
| | | HOLDING TIME | 28 Days/48 Hours |
| | | TYPE OF CONTAINER | G/P |
| | | NO. OF CONTAINER(S) | 1 |
| | | VOLUME | 250mL |
| | | SPECIAL HANDLING AND/OR STORAGE N/A | SAMPLE ANALYSIS 9056_ANIONS_IC: COMMON (Add-on) (Formate); |

| SAMPLE NO. | MATRIX* | SAMPLE DATE | SAMPLE TIME | |
|------------|---------|--------------|-------------|---|
| B32D73 | SOIL | AUG 0 5 2015 | 0955 | ✓ |

0957 26.815/15

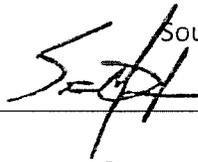
| CHAIN OF POSSESSION | SIGN/ PRINT NAMES |
|--|-------------------------------------|
| RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC | RECEIVED BY/STORED IN E.L. Kauer |
| RELINQUISHED BY/REMOVED FROM E.L. Kauer/CHPRC | RECEIVED BY/STORED IN CHPRC |
| RELINQUISHED BY/REMOVED FROM FEDEX | RECEIVED BY/STORED IN FEDEX |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |
| RELINQUISHED BY/REMOVED FROM | RECEIVED BY/STORED IN |

SPECIAL INSTRUCTIONS
TRVL-15-136

Client: CH2M Hill Plateau Remediation Company SwRI SRR #55929
SwRI Project # 20933.01.006 Case: 303757
VTSR: 08/07/15 08:30 Sample(s) Received: Intact
Battery Check: Y Background Check: <100 cpm (Lab 103)
Cooler/Container Wipe: <100 cpm Temp.: 1.2 °C (wet ice) / SN # 021056
Total cpm-mR/h (samples): <100 cpm; <0.5 mR/hr Wipe Frisk Description: Cooler(s) - 3
(see Radioactive Material Receiving Form for more information)

| | | | |
|--------------------------|-----------------------------|----------------------------|--------------------------|
| LABORATORY SECTION | RECEIVED BY Art Arguenco | TITLE Senior Technician | DATE/TIME 8.7.15/0845 |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |

000028



Southwest Research Institute

Traffic Report

Sample Custodian Signature: _____



- 1. Custody Seal Present
- 2. Chain of Custody Present
- 3. Sample Tags Not Present
Sample Tag Numbers Not on COC
- 4. SMO Forms Not Present

Client: CH2M Hill Plateau Remediation Company
 Project: 20933.01.006
 Case: 303757 / SDG: _____
 Sample Receipt: 55929
 Airbill: 774217453831, 774226406510, 774225375842

Custody Seal #(s): N/A

| Date Received | Time Received | COC Record | SMO Sample # | Corresponding | | Traffic Rpt, Tags, COC Agree | Sample Condition |
|---------------|---------------|-------------|--------------|---------------|--------|------------------------------|------------------|
| | | | | Sample Tag # | SwRI # | | |
| 08/07/15 | 08:30:00 | F15-048-001 | B32D16 | N/A | 579621 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-004 | B32D19 | N/A | 579622 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-007 | B32D22 | N/A | 579623 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-010 | B32D25 | N/A | 579624 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-013 | B32D28 | N/A | 579625 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-016 | B32D31 | N/A | 579626 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-019 | B32D34 | N/A | 579627 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-022 | B32D37 | N/A | 579628 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-025 | B32D40 | N/A | 579629 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-028 | B32D43 | N/A | 579630 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-031 | B32D46 | N/A | 579631 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-034 | B32D49 | N/A | 579632 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-037 | B32D52 | N/A | 579633 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-040 | B32D55 | N/A | 579634 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-043 | B32D58 | N/A | 579635 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-046 | B32D61 | N/A | 579636 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-049 | B32D64 | N/A | 579637 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-052 | B32D67 | N/A | 579638 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-055 | B32D70 | N/A | 579639 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-058 | B32D73 | N/A | 579640 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-061 | B32D76 | N/A | 579641 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-064 | B32DK9 | N/A | 579642 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-065 | B32DL0 | N/A | 579643 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-070 | B32F19 | N/A | 579644 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-073 | B32F22 | N/A | 579645 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-076 | B32F25 | N/A | 579646 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-079 | B32F28 | N/A | 579647 | YES | Intact |
| 08/07/15 | 08:30:00 | F15-048-082 | B32F31 | N/A | 579648 | YES | Intact |

| | | | | | |
|--|--|---------------------------------|---------------------------|------------------|--|
| Lab Name Southwest Research Institute | | | Page 1 of 2 | | |
| Received By (Print Name) STEVEN DOUGLAS | | | Log-in Date 08/07/2015 | | |
| Received By (Signature) <i>[Signature]</i> | | | | | |
| Case Number 303757 | | Sample Delivery Group No. NA | | SAS Number NA | |
| Remarks: 20933.01.006 | | | | | |
| | | EPA Sample # | Corresponding | | Remarks: Condition of Sample Shipment, etc |
| | | | Sample Tag # | Assigned Lab # | |
| 1. Custody Seal(s) | <input checked="" type="radio"/> Present / Absent* <input checked="" type="radio"/> Intact / Broken | B32D16 | N/A | 579621 | Intact |
| 2. Custody Seal Nos. | N/A | B32D19 | N/A | 579622 | Intact |
| | | B32D22 | N/A | 579623 | Intact |
| 3. Chain-of Custody Records | <input checked="" type="radio"/> Present / Absent* | B32D25 | N/A | 579624 | Intact |
| 4. Traffic Reports or Packing Lists | Present <input checked="" type="radio"/> Absent | B32D28 | N/A | 579625 | Intact |
| 5. Airbill | Airbill/Sticker <input checked="" type="radio"/> Present / Absent* | B32D31 | N/A | 579626 | Intact |
| | | B32D34 | N/A | 579627 | Intact |
| 6. Airbill No. | 774217453831, 774226406510, 774225375842 | B32D37 | N/A | 579628 | Intact |
| 7. Sample Tags | Present <input checked="" type="radio"/> Absent | B32D40 | N/A | 579629 | Intact |
| Sample Tag Numbers | Listed / <input checked="" type="radio"/> Not listed on Chain of Custody | B32D43 | N/A | 579630 | Intact |
| | | B32D46 | N/A | 579631 | Intact |
| 8. Sample Condition | <input checked="" type="radio"/> Intact / Broken* / Leaking | B32D49 | N/A | 579632 | Intact |
| 9. Cooler Temperature | 1.2C | B32D52 | N/A | 579633 | Intact |
| 10. Does Information on custody records, traffic reports, and sample tags agree? | <input checked="" type="radio"/> Yes / No* | B32D55 | N/A | 579634 | Intact |
| | | B32D58 | N/A | 579635 | Intact |
| 11. Date Received at Lab | 08/07/2015 | B32D61 | N/A | 579636 | Intact |
| | | B32D64 | N/A | 579637 | Intact |
| 12. Time Received | 08:30:00 | B32D67 | N/A | 579638 | Intact |
| Sample Transfer | | B32D70 | N/A | 579639 | Intact |
| Fraction INORG | / | B32D73 | N/A | 579640 | Intact |
| Area # R.13 | | B32D76 | N/A | 579641 | Intact |
| By STEVEN | | B32DK9 | N/A | 579642 | Intact |
| On DOUGLAS | | B32DL0 | N/A | 579643 | Intact |
| On 08/07/2015 | | | | | |

* Contact SMO and attach record of resolution

| | |
|-----------------------------------|--------------------------------------|
| Reviewed By <i>[Signature]</i> | Logbook No. Sample Receipt (55929) |
| Date 8.11.15 | Logbook Page No. 9174 SOC 3, 4 of 12 |

| | | | |
|--|--|--|----------------|
| Lab Name Southwest Research Institute | | Page 2 of 2 | |
| Received By (Print Name) STEVEN DOUGLAS | | Log-in Date 08/07/2015 | |
| Received By (Signature) <i>[Signature]</i> | | | |
| Case Number 303757 | Sample Delivery Group No. NA | SAS Number NA | |
| Remarks: 20933.01.006 | | Remarks: Condition of Sample Shipment, etc | |
| | EPA Sample # | Corresponding Sample Tag # | Assigned Lab # |
| 1. Custody Seal(s) | <input checked="" type="radio"/> Present / <input type="radio"/> Absent* <input checked="" type="radio"/> Intact / <input type="radio"/> Broken | B32F19 | N/A / 579644 |
| 2. Custody Seal Nos. | N/A | B32F22 | N/A / 579645 |
| | | B32F25 | N/A / 579646 |
| 3. Chain-of-Custody Records | <input checked="" type="radio"/> Present / <input type="radio"/> Absent* | B32F28 | N/A / 579647 |
| 4. Traffic Reports or Packing Lists | <input type="radio"/> Present / <input checked="" type="radio"/> Absent | B32F31 | N/A / 579648 |
| 5. Airbill | Airbill/Sticker <input checked="" type="radio"/> Present / <input type="radio"/> Absent* | | |
| 6. Airbill No. | 774217453831, 774226406510, 774225375842 | | |
| 7. Sample Tags | <input type="radio"/> Present / <input checked="" type="radio"/> Absent | | |
| Sample Tag Numbers | Listed / <input checked="" type="radio"/> Not listed on Chain of Custody | | |
| 8. Sample Condition | <input checked="" type="radio"/> Intact / <input type="radio"/> Broken* / <input type="radio"/> Leaking | | |
| 9. Cooler Temperature | 1.2C | | |
| 10. Does Information on custody records, traffic reports, and sample tags agree? | <input checked="" type="radio"/> Yes / <input type="radio"/> No* | | |
| 11. Date Received at Lab | 08/07/2015 | | |
| 12. Time Received | 08:30:00 | | |
| Sample Transfer | | | |
| Fraction | Fraction | | |
| Area # | Area # | | |
| By | By | | |
| On | On | | |

* Contact SMO and attach record of resolution

| | |
|-----------------------------------|--------------------------------------|
| Reviewed By <i>[Signature]</i> | Logbook No. Sample Receipt (55929) |
| Date 8.11.15 | Logbook Page No. 9174 SEC 3, 4 of 12 |

SOUTHWEST RESEARCH INSTITUTE
CLIENT: CH2M Hill Plateau Remediation
Company
TASK ORDER(s): 150807-12
SRR: 55929
SDG: 579621
CASE: F15-048
VTSR: 08.07.15
PROJECT#: 20859.01.00X

WETCHEM ANALYSIS

SOUTHWEST RESEARCH INSTITUTE
CLIENT: CH2M Hill Plateau Remediation
Company
TASK ORDER(s): 150807-12
SRR: 55929
SDG: 579621
CASE: F15-048
VTSR: 08.07.15
PROJECT#: 20859.01.00X

SAMPLE DATA

SOUTHWEST RESEARCH INSTITUTE
WetChem Report
Cover Page

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12

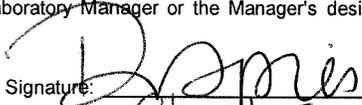
SDG: 579621
SRR: 55929

Case: 303757
Project: 20933.01.006

| Client Sample ID | Lab Sample ID |
|------------------|---------------|
| B32D16 | 579621 |
| B32D16D | 579621D |
| B32D16MS | 579621S |
| B32D19 | 579622 |
| B32D22 | 579623 |
| B32D25 | 579624 |
| B32D28 | 579625 |
| B32D31 | 579626 |
| B32D34 | 579627 |
| B32D37 | 579628 |
| B32D40 | 579629 |
| B32D43 | 579630 |
| B32D46 | 579631 |
| B32D49 | 579632 |
| B32D52 | 579633 |
| B32D55 | 579634 |
| B32D58 | 579635 |
| B32D61 | 579636 |
| B32D64 | 579637 |
| B32D67 | 579638 |
| B32D70 | 579639 |
| B32D73 | 579640 |

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 
Date: 9/10/15

Name: Radonna Spies
Title: Group Leader

Cover Page

SEPTEMBER 10, 2015
SOUTHWEST RESEARCH INSTITUTE
WetChem Report - Form I
Inorganic Analyses Data Sheet

010004

Client Sample ID

B32D16

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579621
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 96.70

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|-------|-------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.942 | U | IC1 | 0.942 | 0.942 | 1 | 20150903-A018 | 08/21/2015 17:28 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

Form I-IN

SEPTEMBER 10, 2015
SOUTHWEST RESEARCH INSTITUTE
WetChem Report - Form I
Inorganic Analyses Data Sheet

010005

Client Sample ID

B32D19

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579622
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 96.03

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|-------|-------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.905 | U | IC1 | 0.905 | 0.905 | 1 | 20150903-A018 | 08/21/2015 18:25 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

Form I-IN

SEPTEMBER 10, 2015
SOUTHWEST RESEARCH INSTITUTE
WetChem Report - Form I
Inorganic Analyses Data Sheet

010006

Client Sample ID

B32D22

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579623
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 96.89

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|-------|-------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.930 | U | IC1 | 0.930 | 0.930 | 1 | 20150903-A018 | 08/21/2015 18:44 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

Form I-IN

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WetChem Report - Form I
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010007

Client Sample ID

B32D25

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579624
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 96.35

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|-------|-------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.970 | U | IC1 | 0.970 | 0.970 | 1 | 20150903-A018 | 08/21/2015 19:02 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

Form I-IN

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010008

Client Sample ID

B32D28

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579625
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 96.04

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|-------|-------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.966 | U | IC1 | 0.966 | 0.966 | 1 | 20150903-A018 | 08/21/2015 19:21 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010009

Client Sample ID

B32D31

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579626
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 96.13

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|------|------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 1.01 | U | IC1 | 1.01 | 1.01 | 1 | 20150903-A018 | 08/21/2015 19:40 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010010

Client Sample ID

B32D34

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
 Task Order: 150807-12
 Lab ID: 579627
 Result Units: mg/kg

SDG: 579621
 SRR: 55929
 Matrix: Soil
 % Solids: 98.64

Case: 303757
 Project: 20933.01.006
 Receipt Date: 08/07/2015
 Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|-------|-------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.989 | U | IC1 | 0.989 | 0.989 | 1 | 20150903-A018 | 08/21/2015 19:59 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010011

Client Sample ID

B32D37

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
 Task Order: 150807-12
 Lab ID: 579628
 Result Units: mg/kg

SDG: 579621
 SRR: 55929
 Matrix: Soil
 % Solids: 96.32

Case: 303757
 Project: 20933.01.006
 Receipt Date: 08/07/2015
 Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|-------|-------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.942 | U | IC1 | 0.942 | 0.942 | 1 | 20150903-A018 | 08/21/2015 20:18 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010012

Client Sample ID

B32D40

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579629
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 96.43

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|------|------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 1.05 | U | IC1 | 1.05 | 1.05 | 1 | 20150903-A018 | 08/21/2015 20:37 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010013

Client Sample ID

B32D43

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579630
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 99.23

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|-------|-------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.883 | U | IC1 | 0.883 | 0.883 | 1 | 20150903-A018 | 08/21/2015 20:55 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010014

Client Sample ID

B32D46

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
 Task Order: 150807-12
 Lab ID: 579631
 Result Units: mg/kg

SDG: 579621
 SRR: 55929
 Matrix: Soil
 % Solids: 97.25

Case: 303757
 Project: 20933.01.006
 Receipt Date: 08/07/2015
 Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|-------|-------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.951 | U | IC1 | 0.951 | 0.951 | 1 | 20150903-A018 | 08/21/2015 21:14 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010015

Client Sample ID

B32D49

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579632
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 96.01

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|-------|-------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.977 | U | IC1 | 0.977 | 0.977 | 1 | 20150903-A018 | 08/21/2015 22:11 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010016

Client Sample ID

B32D52

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579633
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 93.76

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|-------|-------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.925 | U | IC1 | 0.925 | 0.925 | 1 | 20150903-A018 | 08/21/2015 22:29 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010017

Client Sample ID

B32D55

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579634
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 94.46

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|-------|-------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.978 | U | IC1 | 0.978 | 0.978 | 1 | 20150903-A018 | 08/21/2015 22:48 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010018

Client Sample ID

B32D58

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579635
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 96.58

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|------|------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 1.02 | U | IC1 | 1.02 | 1.02 | 1 | 20150903-A018 | 08/21/2015 23:07 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010019

Client Sample ID

B32D61

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
 Task Order: 150807-12
 Lab ID: 579636
 Result Units: mg/kg

SDG: 579621
 SRR: 55929
 Matrix: Soil
 % Solids: 77.78

Case: 303757
 Project: 20933.01.006
 Receipt Date: 08/07/2015
 Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|------|------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 1.17 | U | IC1 | 1.17 | 1.17 | 1 | 20150903-A018 | 08/21/2015 23:26 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010020

Client Sample ID

B32D64

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579637
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 91.01

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|------|------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 1.09 | U | IC1 | 1.09 | 1.09 | 1 | 20150903-A018 | 08/21/2015 23:45 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010021

Client Sample ID

B32D67

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579638
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 90.99

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|-------|-------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.957 | U | IC1 | 0.957 | 0.957 | 1 | 20150903-A018 | 08/22/2015 00:03 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010022

Client Sample ID

B32D70

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579639
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 88.73

Case: 303757
Project: 20933.01.006
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|--------|------|-----|------|------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 1.08 | U | IC1 | 1.08 | 1.08 | 1 | 20150903-A018 | 08/22/2015 00:22 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

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010023

Client Sample ID

B32D73

Type: Unknown

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579640
Result Units: mg/kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 97.72

Case: 303757
Project: 20859.01.00X
Receipt Date: 08/07/2015
Collection Date: 08/06/2015

| CAS No. | Analyte | Result | Qual | M | RL | CRDL | DF | Prep Batch | Analysis Date/Time |
|---------|-------------|---------|------|-----|---------|---------|----|---------------|--------------------|
| 64-18-6 | Formic acid | 0.00931 | U | IC1 | 0.00931 | 0.00931 | 1 | 20150903-A019 | 08/25/2015 22:45 |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|---|---------------------------------|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | RL - SwRI Reporting Limit | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | CRDL - Contract Req. Det. Limit | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | DF - Dilution Factor | |
| X - Analytical spike criteria was not met | M - Instrument | |
| E - Result is estimated due to interferences | | |
| D - Result is reported from a dilution | | |
| * - Duplicate criteria was not met | | |

Form I-IN

Initial and Continuing Calibration Verification

Client: CH2M Hill Plateau Remediation Company
 Task Order: 150807-12
 Result Units: mg/L
 Associated Analytical Batches: 20150903-A021

SDG: 579621
 SRR: 55929
 Initial Calibration Source: See Raw Data
 Continuing Calibration Source: See Raw Data

Case: 303757
 Project: 20933.01.006

| Analyte | Initial Calibration Verification | | | | Continuing Calibration Verification | | | | | | |
|----------------|----------------------------------|-------|-------|----------|-------------------------------------|--------|-------|--------|-------|----------|-----|
| | True | Found | %Rec | Limit | True | Found1 | %Rec | Found2 | %Rec | Limit | M |
| Formate | 10.0 | 9.74 | 97.4% | 90%-110% | 10.0 | 9.34 | 93.4% | 9.41 | 94.1% | 90%-110% | IC1 |

| Instruments/Methods (M) |
|--|
| IC1 - Ion Chromatography DX 500/IC by 9056 |
| NA - Not Applicable |

Initial and Continuing Calibration Verification

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Result Units: mg/L
Associated Analytical Batches: 20150903-A021

SDG: 579621
SRR: 55929
Initial Calibration Source: See Raw Data
Continuing Calibration Source: See Raw Data

Case: 303757
Project: 20933.01.006

| Continuing Calibration Verification | | | | | |
|-------------------------------------|------|--------|-------|----------|-----|
| Analyte | True | Found3 | %Rec | Limit | M |
| Formate | 10.0 | 9.44 | 94.4% | 90%-110% | IC1 |

| Instruments/Methods (M) |
|--|
| IC1 - Ion Chromatography DX 500/IC by 9056 |
| NA - Not Applicable |

Initial and Continuing Calibration Verification

Client: CH2M Hill Plateau Remediation Company
 Task Order: 150807-12
 Result Units: mg/L
 Associated Analytical Batches: 20150904-A004

SDG: 579621
 SRR: 55929
 Initial Calibration Source: See Raw Data
 Continuing Calibration Source: See Raw Data

Case: 303757
 Project: 20933.01.006

| Analyte | Initial Calibration Verification | | | | Continuing Calibration Verification | | | | | | |
|----------------|----------------------------------|-------|-------|----------|-------------------------------------|--------|-------|--------|-------|----------|-----|
| | True | Found | %Rec | Limit | True | Found1 | %Rec | Found2 | %Rec | Limit | M |
| Formate | 10.0 | 9.21 | 92.1% | 90%-110% | 10.0 | 9.27 | 92.7% | 9.18 | 91.8% | 90%-110% | IC1 |

| Instruments/Methods (M) |
|--|
| IC1 - Ion Chromatography DX 500/IC by 9056 |
| NA - Not Applicable |

Client: CH2M Hill Plateau Remediation Company
 Task Order: 150807-12
 Result Units: mg/L
 Associated Analytical Batch: 20150903-A021

SDG: 579621
 SRR: 55929

Case: 303757
 Project: 20933.01.006

| LLC Standards | | | | | |
|---------------|-------|--------|--------|----------|-----|
| Analyte | True | Found1 | %Rec | Limit | M |
| Formate | 0.100 | 0.143 | 143.0% | 50%-150% | IC1 |

| <i>Instruments/Methods (M)</i> |
|--|
| IC1 - Ion Chromatography DX 500/IC by 9056 NA - Not Applicable |

Form IIB-IN

Client: CH2M Hill Plateau Remediation Company
 Task Order: 150807-12
 Result Units: mg/L
 Associated Analytical Batch: 20150904-A004

SDG: 579621
 SRR: 55929

Case: 303757
 Project: 20933.01.006

| LLC Standards | | | | | |
|---------------|-------|--------|--------|----------|-----|
| Analyte | True | Found1 | %Rec | Limit | M |
| Formate | 0.100 | 0.118 | 118.0% | 50%-150% | IC1 |

| <i>Instruments/Methods (M)</i> |
|--|
| IC1 - Ion Chromatography DX 500/IC by 9056 |
| NA - Not Applicable |

Blanks

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Preparation Blank Result Units: mg/Kg
Initial/Continuing Blank Result Units: mg/L

SDG: 579621
SRR: 55929
Preparation Blank Matrix: Soil
Associated Prep Batches: 20150903-A018
20150903-A019

Case: 303757
Project: 20933.01.006
Associated Analytical Batches: 20150903-A005
20150903-A021
20150904-A004

| Analyte | Preparation Blank | | Initial Calibration Blank | | Continuing Calibration Blank | | | | | | |
|---------|-------------------|------|---------------------------|------|------------------------------|------|--------|------|--------|------|-----|
| | Result | Qual | Found | Qual | Found1 | Qual | Found2 | Qual | Found3 | Qual | M |
| Formate | 0.852 | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 | U | IC1 |

| Data Reporting Qualifiers (Qual) | Instruments/Methods (M) |
|---|--|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) | IC1 - Ion Chromatography DX 500/IC by 9056 |
| U - Result is less than the SwRI Reporting Limit (RL) | NA - Not Applicable |
| N - Matrix spike and/or matrix spike duplicate criteria was not met | |
| X - Analytical spike criteria was not met | |
| E - Result is estimated due to interferences | |
| D - Result is reported from a dilution | |
| * - Duplicate criteria was not met | |

Form III-IN

Blanks

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Preparation Blank Result Units: mg/Kg
Initial/Continuing Blank Result Units: mg/L

SDG: 579621
SRR: 55929
Preparation Blank Matrix: Soil
Associated Prep Batches: 20150903-A018
20150903-A019

Case: 303757
Project: 20933.01.006
Associated Analytical Batches: 20150903-A005
20150903-A021
20150904-A004

| Analyte | Preparation Blank | | Initial Calibration Blank | | Continuing Calibration Blank | | | | M |
|---------|-------------------|------|---------------------------|------|------------------------------|------|--------|------|-----|
| | Result | Qual | Found | Qual | Found1 | Qual | Found2 | Qual | |
| Formate | 0.852 | U | 0.100 | U | 0.100 | U | 0.100 | U | IC1 |

| Data Reporting Qualifiers (Qual) | Instruments/Methods (M) |
|--|---|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) U - Result is less than the SwRI Reporting Limit (RL) N - Matrix spike and/or matrix spike duplicate criteria was not met X - Analytical spike criteria was not met E - Result is estimated due to interferences D - Result is reported from a dilution * - Duplicate criteria was not met | IC1 - Ion Chromatography DX 500/IC by 9056 NA - Not Applicable |

Form III-IN

Matrix Spike/Matrix Spike Duplicate Sample Recovery

Client: CH2M Hill Plateau Remediation Company
 Task Order: 150807-12
 Lab ID: 579621S
 Result Units: mg/Kg

SDG: 579621
 SRR: 55929
 Matrix: Soil
 % Solids: 96.70

Case: 303757
 Project: 20933.01.006

| Analyte | Parent Sample Result | Qual | MS Result | MS Spike Added | MS %Rec | MSD Result | MSD Spike Added | MSD %Rec | %RPD | Control Limit %Rec | Control Limit %RPD | M | Note |
|-------------|----------------------|------|-----------|----------------|---------|------------|-----------------|----------|------|--------------------|--------------------|-----|------|
| Formic acid | 0.942 | U | 85.3 | 92.4 | 92.3% | - | - | - | - | 75%-125% | - | IC1 | |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Methods (M) |
|--|---|---|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) U - Result is less than the SwRI Reporting Limit (RL) N - Matrix spike and/or matrix spike duplicate criteria was not met X - Analytical spike criteria was not met E - Result is estimated due to interferences D - Result is reported from a dilution * - Duplicate criteria was not met | M - Instrument MS - Matrix Spike MSD - Matrix Spike Duplicate Q - Qualifier RPD - Relative Percent Difference | IC1 - Ion Chromatography DX 500/IC by 9056 NA - Not Applicable |

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: 579621D
Result Units: mg/Kg

SDG: 579621
SRR: 55929
Matrix: Soil
% Solids: 96.70

Case: 303757
Project: 20933.01.006

| Analyte | Parent Sample Result | Qual | Duplicate Result | Qual | RPD | RPD Limit | Control Limit | M | Note |
|-------------|----------------------|------|------------------|------|-------|-----------|---------------|-----|------|
| Formic acid | 0.942 | U | 1.05 | U | 0.00% | 20% | - | IC1 | |

| Data Reporting Qualifiers (Qual) | Columns | Instruments/Method (M) |
|--|---|---|
| J - Result is greater than or equal to the SwRI Reporting Limit (RL) and less than the Contract Required Detection Limit (CRDL) U - Result is less than the SwRI Reporting Limit (RL) N - Matrix spike and/or matrix spike duplicate criteria was not met X - Analytical spike criteria was not met E - Result is estimated due to interferences D - Result is reported from a dilution * - Duplicate criteria was not met | M - Instrument RPD - Relative Percent Difference | IC1 - Ion Chromatography DX 500/IC by 9056 NA - Not Applicable |

Form VI-IN

SEPTEMBER 10, 2015
SOUTHWEST RESEARCH INSTITUTE
WetChem Report - Form VII
Laboratory Control Sample

010033

SwRI ID

LCS15J03JH1

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: LCS15J03JH1
Result Units: mg/Kg

SDG: 579621
SRR: 55929
Matrix: Soil
Associated Prep Batches: 20150903-A018

Case: 303757
Project: 20933.01.006
LCS Source:

| Analyte | True | Found | Qual | %Rec. | Limit | M | Analysis Date/Time |
|-------------|------|-------|------|-------|----------|-----|--------------------|
| Formic acid | 1020 | 916 | | 89.8% | 90%-110% | IC1 | 08/21/2015 17:10 |

| Instruments/Methods (M) |
|--|
| IC1 - Ion Chromatography DX 500/IC by 9056 |
| NA - Not Applicable |

Form VII-IN

SEPTEMBER 10, 2015
SOUTHWEST RESEARCH INSTITUTE
WetChem Report - Form VII
Laboratory Control Sample

010034

SwRI ID

LCS15J03JH2

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Lab ID: LCS15J03JH2
Result Units: mg/Kg

SDG: 579621
SRR: 55929
Matrix: Soil
Associated Prep Batches: 20150903-A019

Case: 303757
Project: 20933.01.006
LCS Source:

| Analyte | True | Found | Qual | %Rec. | Limit | M | Analysis Date/Time |
|-------------|------|-------|------|-------|----------|-----|--------------------|
| Formic acid | 1020 | 946 | | 92.7% | 90%-110% | IC1 | 08/25/2015 18:41 |

| Instruments/Methods (M) |
|--|
| IC1 - Ion Chromatography DX 500/IC by 9056 |
| NA - Not Applicable |

Form VII-IN

Detection Limits

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Result Units: mg/L

SDG: 579621
SRR: 55929
Instrument: Ion Chromatography DX 500

Case: 303757
Project: 20933.01.006

| Analyte | RL | CRDL |
|---------------------|-------|-------|
| Formate/Formic acid | 0.100 | 0.100 |

| Columns | |
|----------------|----------------------------|
| RL | - SwRI Reporting Limit |
| CRDL | - Contract Req. Det. Limit |

SEPTEMBER 10, 2015
SOUTHWEST RESEARCH INSTITUTE 010036
WetChem Report - Form XII
Analysis Run Log

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12
Analytical Batch: 20150903-A021
Analysis Method: IC by 9056

SDG: 579621
SRR: 55929
Instrument: Ion Chromatography DX 500

Case: 303757
Project: 20933.01.006
Start Date: 08/21/2015
End Date: 08/22/2015

| Lab Sample ID | Client Sample ID | Time | DF | F O |
|---------------|------------------|-------|----|--------|
| ICV | ICV | 13:49 | 1 | X |
| ICB | ICB | 14:08 | 1 | X |
| LLC | NA | 14:26 | 1 | X |
| PB15J03JH5 | NA | 16:51 | 1 | X |
| LCS15J03JH1 | NA | 17:10 | 1 | X |
| 579621 | B32D16 | 17:28 | 1 | X |
| CCV | CCV | 17:47 | 1 | X |
| CCB | CCB | 18:06 | 1 | X |
| 579622 | B32D19 | 18:25 | 1 | X |
| 579623 | B32D22 | 18:44 | 1 | X |
| 579624 | B32D25 | 19:02 | 1 | X |
| 579625 | B32D28 | 19:21 | 1 | X |
| 579626 | B32D31 | 19:40 | 1 | X |
| 579627 | B32D34 | 19:59 | 1 | X |
| 579628 | B32D37 | 20:18 | 1 | X |
| 579629 | B32D40 | 20:37 | 1 | X |
| 579630 | B32D43 | 20:55 | 1 | X |
| 579631 | B32D46 | 21:14 | 1 | X |
| CCV2 | CCV2 | 21:33 | 1 | X |
| CCB2 | CCB2 | 21:52 | 1 | X |
| 579632 | B32D49 | 22:11 | 1 | X |
| 579633 | B32D52 | 22:29 | 1 | X |
| 579634 | B32D55 | 22:48 | 1 | X |
| 579635 | B32D58 | 23:07 | 1 | X |
| 579636 | B32D61 | 23:26 | 1 | X |
| 579637 | B32D64 | 23:45 | 1 | X |
| 579638 | B32D67 | 00:03 | 1 | X |
| 579639 | B32D70 | 00:22 | 1 | X |
| 579640 | B32D73 | 00:41 | 1 | X |
| 579621D | B32D16D | 01:00 | 1 | X |
| CCV3 | CCV3 | 01:19 | 1 | X |
| CCB3 | CCB3 | 01:38 | 1 | X |

SEPTEMBER 10, 2015
SOUTHWEST RESEARCH INSTITUTE 010037
 WetChem Report - Form XII
Analysis Run Log

Client: CH2M Hill Plateau Remediation Company
 Task Order: 150807-12
 Analytical Batch: 20150904-A004
 Analysis Method: IC by 9056

SDG: 579621
 SRR: 55929
 Instrument: Ion Chromatography DX 500

Case: 303757
 Project: 20933.01.006
 Start Date: 08/25/2015
 End Date: 08/25/2015

| Lab Sample ID | Client Sample ID | Time | DF | FO |
|---------------|------------------|-------|----|----|
| ICV | ICV | 16:10 | 1 | X |
| ICB | ICB | 16:29 | 1 | X |
| LLC | NA | 16:48 | 1 | X |
| PB15J03JH6 | NA | 18:22 | 1 | X |
| LCS15J03JH2 | NA | 18:41 | 1 | X |
| CCV | CCV | 19:56 | 1 | X |
| CCB | CCB | 20:15 | 1 | X |
| 579640 | B32D73 | 22:45 | 1 | X |
| 579621S | B32D16MS | 23:04 | 1 | X |
| CCV2 | CCV2 | 23:23 | 1 | X |
| CCB2 | CCB2 | 23:42 | 1 | X |

SEPTEMBER 10, 2015
SOUTHWEST RESEARCH INSTITUTE 010038
 WetChem Report - Form XII
Analysis Run Log

Client: CH2M Hill Plateau Remediation Company
 Task Order: 150807-12
 Analytical Batch: 20150903-A005
 Analysis Method: %Solids

SDG: 579621
 SRR: 55929
 Instrument:

Case: 303757
 Project: 20933.01.006
 Start Date: 09/03/2015
 End Date: 09/03/2015

| Lab Sample ID | Client Sample ID | Time | DF | FO |
|---------------|------------------|-------|----|----|
| PB15J03JH1 | NA | 11:15 | 1 | |
| 579621 | B32D16 | 11:15 | 1 | |
| 579621D | B32D16D | 11:15 | 1 | |
| 579622 | B32D19 | 11:15 | 1 | |
| 579623 | B32D22 | 11:15 | 1 | |
| 579624 | B32D25 | 11:15 | 1 | |
| 579625 | B32D28 | 11:15 | 1 | |
| 579626 | B32D31 | 11:15 | 1 | |
| 579627 | B32D34 | 11:15 | 1 | |
| 579628 | B32D37 | 11:15 | 1 | |
| 579629 | B32D40 | 11:15 | 1 | |
| 579630 | B32D43 | 11:15 | 1 | |
| 579631 | B32D46 | 11:15 | 1 | |
| 579632 | B32D49 | 11:15 | 1 | |
| 579633 | B32D52 | 11:15 | 1 | |
| 579634 | B32D55 | 11:15 | 1 | |
| 579635 | B32D58 | 11:15 | 1 | |
| 579636 | B32D61 | 11:15 | 1 | |
| 579637 | B32D64 | 11:15 | 1 | |
| 579638 | B32D67 | 11:15 | 1 | |
| 579639 | B32D70 | 11:15 | 1 | |
| 579640 | B32D73 | 11:15 | 1 | |

SEPTEMBER 10, 2015
SOUTHWEST RESEARCH INSTITUTE 010039
WetChem Report - Form XVIII
Preparation/Digestion Summary

Client: CH2M Hill Plateau Remediation Company
Task Order: 150807-12

SDG: 579621
SRR: 55929

Case: 303757
Project: 20933.01.006

| Prep Batch | Method | Preparation Date |
|---------------|------------|------------------|
| 20150903-A016 | %Solids | 09/03/2015 |
| 20150903-A018 | IC by 9056 | 09/03/2015 |
| 20150903-A019 | IC by 9056 | 09/03/2015 |

SEPTEMBER 10, 2015
Digestion Log

010040

Southwest Research Institute
San Antonio, Texas 78228

Batch: 20150903-A016 (Ver. 1)
Status: APPROVED

Client(s): CH2M Hill Plateau Remediation Company
Task Order(s): 150807-12
SDG(s): 579621
Project(s): 20933.01.00X
Matrix(s): Soil
Balance(s): 135
Heating Device: Oven #31 Temperature (C): NA
Time In: NA Time Out: NA

| <u>Sample Identification</u> | <u>Client Identification</u> | <u>Tare Wt (g)</u> | <u>WetSample+TareWt (g)</u> | <u>DriedSample+TareWt (g)</u> | <u>%Solids (%)</u> |
|------------------------------|------------------------------|--------------------|-----------------------------|-------------------------------|--------------------|
| PB15J03JH3 | NA | 1.0101 | 1.0101 | 1.0100 | |
| 579621 | B32D16 | 1.0230 | 11.1378 | 10.8042 | 96.70 |
| 579621D | B32D16 | 1.0727 | 11.2197 | 10.8859 | 96.71 |
| 579622 | B32D19 | 0.9869 | 11.0267 | 10.6282 | 96.03 |
| 579623 | B32D22 | 1.0115 | 11.0565 | 10.7446 | 96.89 |
| 579624 | B32D25 | 1.0104 | 11.1609 | 10.7903 | 96.35 |
| 579625 | B32D28 | 1.0489 | 11.1377 | 10.7384 | 96.04 |
| 579626 | B32D31 | 0.0348 | 11.2394 | 10.8062 | 96.13 |
| 579627 | B32D34 | 1.0536 | 11.0916 | 10.9546 | 98.64 |
| 579628 | B32D37 | 1.0341 | 11.2191 | 10.8440 | 96.32 |
| 579629 | B32D40 | 0.9735 | 11.0688 | 10.7086 | 96.43 |
| 579630 | B32D43 | 1.0074 | 11.0522 | 10.9749 | 99.23 |
| 579631 | B32D46 | 1.0038 | 11.0570 | 10.7807 | 97.25 |
| 579632 | B32D49 | 1.0263 | 11.2251 | 10.8183 | 96.01 |
| 579633 | B32D52 | 1.0278 | 11.2895 | 10.6495 | 93.76 |
| 579634 | B32D55 | 1.0099 | 11.3109 | 10.7398 | 94.46 |
| 579635 | B32D58 | 1.0071 | 11.1197 | 10.7741 | 96.58 |
| 579636 | B32D61 | 1.0092 | 11.2101 | 8.9433 | 77.78 |
| 579637 | B32D64 | 1.0048 | 11.2596 | 10.3374 | 91.01 |
| 579638 | B32D67 | 0.9839 | 11.0954 | 10.1845 | 90.99 |
| 579639 | B32D70 | 0.9894 | 11.3743 | 10.2038 | 88.73 |
| 579640 | B32D73 | 0.9961 | 11.2351 | 11.0021 | 97.72 |

Comments: NA

Prepared by: HERRERA, JUDY

Date: 09/03/2015

Reviewed by: MOKEN, JAMES

Date: 09/04/2015

Disposal Int/Date/Loc: _____

SEPTEMBER 10, 2015
Digestion Log

010041

Southwest Research Institute
San Antonio, Texas 78228

Batch: 20150903-A018 (Ver. 1)
Status: APPROVED

Client(s): CH2M Hill Plateau Remediation Company
Task Order(s): 150807-12
SDG(s): 579621
Project(s): 20933.01.00X
Method(s): IC by 9056 (TAP: TAP-01-0406-042)
Matrix(s): Soil
Pipette(s): 5000-3, 1000-1, 200-H
Time In: NA Time Out: NA

| <u>Sample Identification</u> | <u>Client Identification</u> | <u>Initial Weight (g)</u> | <u>Final Volume (mL)</u> |
|------------------------------|------------------------------|---------------------------|--------------------------|
| PB15J03JH5 | NA | 1.2 | 10 |
| LCS15J03JH1 * | NA | .1 | 10 |
| 579621 | B32D16 | 1.1223 | 10 |
| 579621D | B32D16 | 1.01 | 10 |
| 579621MS * | B32D16 | 1.1427 | 10 |
| 579622 | B32D19 | 1.1767 | 10 |
| 579623 | B32D22 | 1.1340 | 10 |
| 579624 | B32D25 | 1.0938 | 10 |
| 579625 | B32D28 | 1.1019 | 10 |
| 579626 | B32D31 | 1.0493 | 10 |
| 579627 | B32D34 | 1.0482 | 10 |
| 579628 | B32D37 | 1.1263 | 10 |
| 579629 | B32D40 | 1.0106 | 10 |
| 579630 | B32D43 | 1.1668 | 10 |
| 579631 | B32D46 | 1.1054 | 10 |
| 579632 | B32D49 | 1.0901 | 10 |
| 579633 | B32D52 | 1.1788 | 10 |
| 579634 | B32D55 | 1.1068 | 10 |
| 579635 | B32D58 | 1.0386 | 10 |
| 579636 | B32D61 | 1.1215 | 10 |
| 579637 | B32D64 | 1.0331 | 10 |
| 579638 | B32D67 | 1.1738 | 10 |
| 579639 | B32D70 | 1.0624 | 10 |

* spiked .1 mL of 27-04-WCS11 (ChemInv# , Source: , Exp: 09/04/2016)

Comments: NA



Prepared by: HERRERA, JUDY

Date: 09/03/2015

Reviewed by: MOKEN, JAMES

Date: 09/04/2015

Disposal Int/Date/Loc: _____

SEPTEMBER 10, 2015
Digestion Log

010042

Southwest Research Institute
San Antonio, Texas 78228

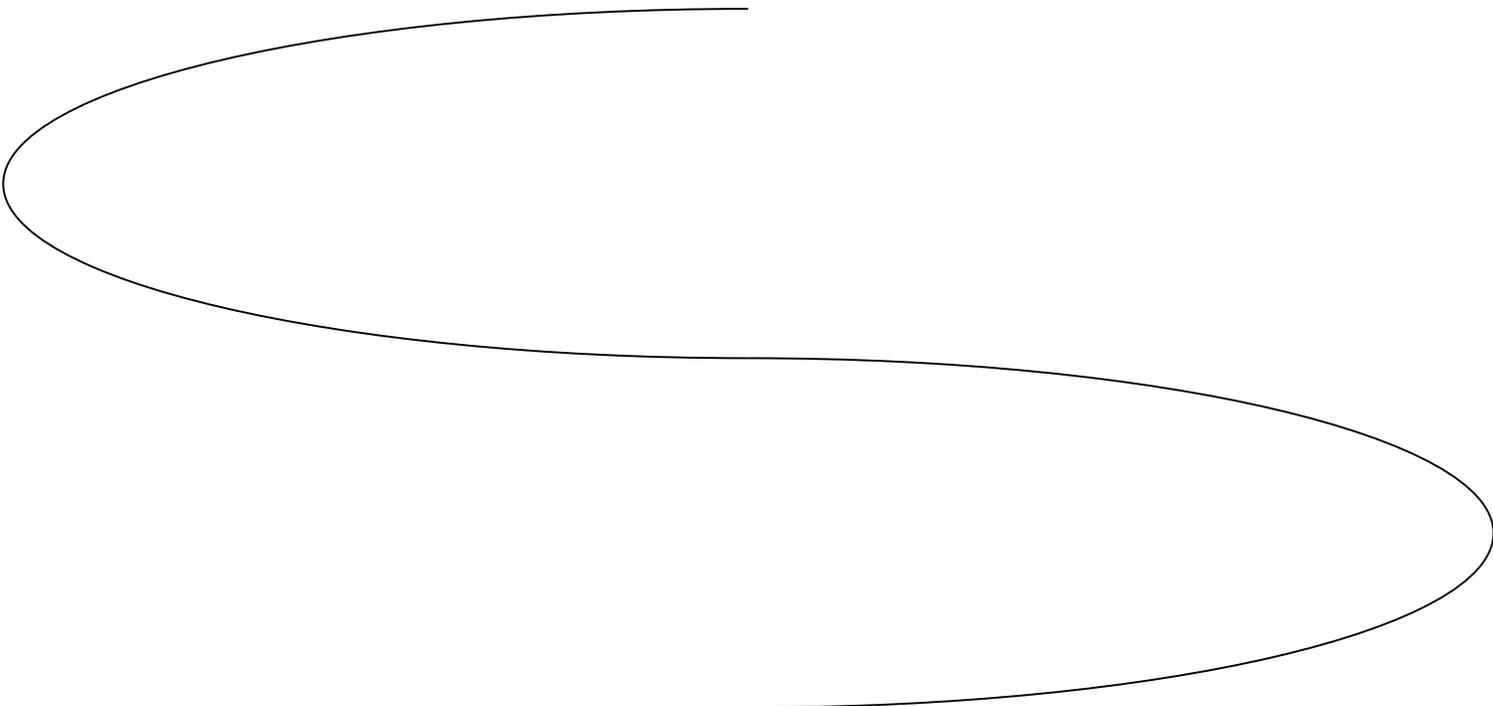
Batch: 20150903-A019 (Ver. 1)
Status: APPROVED

Client(s): CH2M Hill Plateau Remediation Company
Task Order(s): 150807-13, 150807-12
SDG(s): 579641, 579621
Project(s): 20933.01.00X
Method(s): IC by 9056 (TAP: TAP-01-0406-042)
Matrix(s): Soil
Pipette(s): 5000-3, 1000-1, 200-H
Time In: NA Time Out: NA

| <u>Sample Identification</u> | <u>Client Identification</u> | <u>Initial Weight (g)</u> | <u>Final Volume (mL)</u> |
|------------------------------|------------------------------|---------------------------|--------------------------|
| PB15J03JH6 | NA | 1.2 | 10 |
| LCS15J03JH2 * | NA | 0.1 | 10 |
| 579641 | B32D76 | 1.15 | 10 |
| 579641D | B32D76 | 1.03 | 10 |
| 579641MS * | B32D76 | 1.190 | 10 |
| 579642 | B32DK9 | 1.1102 | 10 |
| 579643 | B32DL0 | 1.0764 | 10 |
| 579644 | B32F19 | 1.1399 | 10 |
| 579645 | B32F22 | 1.1917 | 10 |
| 579646 | B32F25 | 1.0522 | 10 |
| 579647 | B32F28 | 1.1185 | 10 |
| 579648 | B32F31 | 1.0483 | 10 |
| 579621MS * | B32D16 | 1.1437 | 10 |
| 579640 | B32D73 | 1.0583 | 10 |

* spiked .1 mL of 27-04-WCS11 (ChemInv# , Source: , Exp: 09/04/2016)

Comments: NA



Prepared by: HERRERA, JUDY

Date: 09/03/2015

Reviewed by: MOKEN, JAMES

Date: 09/04/2015

Disposal Int/Date/Loc: _____

**SOUTHWEST RESEARCH INSTITUTE
CLIENT: CH2M Hill Plateau Remediation
Company
TASK ORDER(s): 150807-12
SRR: 55929
SDG: 579621
CASE: F15-048
VTSR: 08.07.15
PROJECT#: 20859.01.00X**

RAW DATA

Client: CH2M Hill Plateau Remediation Company
 SDG: 579621
 SwRI Project Number: 20933.01.006
 SwRI Task Order Number(s): 150807-12

Sample Calculation Sheet

IC, SW 846 9056A

A = Analyte Result (ug/L)

Final Result (mg/kg) = A X (1 mg/1000 ug) X (46 g/mol / 45 g/mol) X (Final Volume (mL) / Initial Weight) X

%Solids

Conversion Factor of Formate to Formic Acid = 46/45

579621S

$$9230 \frac{\mu\text{g}}{\text{L}} \times \frac{1 \text{ mg}}{1000 \mu\text{g}} \times \frac{46 \text{ g/mol}}{45 \text{ g/mol}} \times \frac{10 \text{ mL}}{1.1437 \text{ g}} \times \frac{100\%}{96.7\%} = 85.3 \frac{\text{mg}}{\text{kg}}$$

formic Acid

% Solids

A = Tare Weight (g)

B = Dried Sample + Tare Weight (g)

C = Wet Sample + Tare Weight (g)

B 10.8042g
 C 11.1378g

% Solids = [(B-A) / (C-A)] x 100%

579621

$$\left[\frac{(10.8042 \text{ g} - 1.0230 \text{ g})}{(11.1378 \text{ g} - 1.0230 \text{ g})} \right] \times 100 = 96.7\%$$

Southwest Research Institute
 San Antonio, Texas 78228

Batch: 20150903-A021 (Ver. 3)
 Status: DISPOSED

Limit: IC 9056A
 Analysis Method: IC 9056A (TAP: TAP-01-0406-042)
 Instrument: IC DX500
 Data File Name: 150821.csv
 Analyte Test: IC 9056A
 Start Time: 08/21/2015 13:49:16
 Stop Time: 08/22/2015 01:38:03
 Qualifier Set: Default
 Task Order: 150807-12
 SDG: 579621
 Project: 20933.01.00X
 Customer: CH2M Hill Plateau Remediation Company

| Sample Identification | Client Identification | Formate/Formic acid | | |
|-----------------------|-----------------------|-----------------------|----------------------|--------------|
| | | Analyte Result (ug/L) | Final Result (mg/Kg) | RL (mg/Kg) |
| ICV ^ | NA | 9740 | 9.96 (mg/L) | 0.102 (mg/L) |
| ICB | NA | 88.3 U | 0.100 U (mg/L) | 0.102 (mg/L) |
| LLC ^^ | NA | 143 | 0.146 (mg/L) | 0.102 (mg/L) |
| PB15J03JH5 + | NA | 0.00 U | 0.852 U | 0.852 |
| LCS15J03JH1 + | NA | 8960 | 916 | 10.2 |
| 579621 ++ | B32D16 | 91.9 U | 0.942 U | 0.942 |
| CCV ^ | NA | 9340 | 9.55 (mg/L) | 0.102 (mg/L) |
| CCB | NA | 83.3 U | 0.100 U (mg/L) | 0.102 (mg/L) |
| 579622 ++ | B32D19 | 0.00 U | 0.905 U | 0.905 |
| 579623 ++ | B32D22 | 0.00 U | 0.930 U | 0.930 |
| 579624 ++ | B32D25 | 0.00 U | 0.970 U | 0.970 |
| 579625 ++ | B32D28 | 0.00 U | 0.966 U | 0.966 |
| 579626 ++ | B32D31 | 0.00 U | 1.01 U | 1.01 |
| 579627 ++ | B32D34 | 0.00 U | 0.989 U | 0.989 |
| 579628 ++ | B32D37 | 0.00 U | 0.942 U | 0.942 |
| 579629 ++ | B32D40 | 0.00 U | 1.05 U | 1.05 |
| 579630 ++ | B32D43 | 0.00 U | 0.883 U | 0.883 |
| 579631 ++ | B32D46 | 0.00 U | 0.951 U | 0.951 |
| CCV2 ^ | NA | 9410 | 9.62 (mg/L) | 0.102 (mg/L) |
| CCB2 | NA | 0.00 U | 0.100 U (mg/L) | 0.102 (mg/L) |
| 579632 ++ | B32D49 | 0.00 U | 0.977 U | 0.977 |
| 579633 ++ | B32D52 | 0.00 U | 0.925 U | 0.925 |
| 579634 ++ | B32D55 | 0.00 U | 0.978 U | 0.978 |
| 579635 ++ | B32D58 | 0.00 U | 1.02 U | 1.02 |
| 579636 ++ | B32D61 | 0.00 U | 1.17 U | 1.17 |
| 579637 ++ | B32D64 | 0.00 U | 1.09 U | 1.09 |
| 579638 ++ | B32D67 | 78.9 U | 0.957 U | 0.957 |
| 579639 ++ | B32D70 | 0.00 U | 1.08 U | 1.08 |
| 579640 ++ | B32D73 | 0.00 U | 0.963 U | 0.963 |
| 579621D ++ | B32D16 | 0.00 U | 1.05 U | 1.05 |
| CCV3 ^ | NA | 9440 | 9.65 (mg/L) | 0.102 (mg/L) |
| CCB3 | NA | 0.00 U | 0.100 U (mg/L) | 0.102 (mg/L) |

U - Result is less than the SwRI Reporting Limit (RL)

Prepared by: HERRERA, JUDY

Date: 08/21/2015

Reviewed by: MOKEN, JAMES

Date: 09/04/2015

Southwest Research Institute
San Antonio, Texas 78228

Batch: 20150903-A021 (Ver. 3)
Status: DISPOSED

Limit: IC 9056A
Analysis Method: IC 9056A (TAP: TAP-01-0406-042)
Instrument: IC DX500
Data File Name: 150821.csv
Analyte Test: IC 9056A
Start Time: 08/21/2015 13:49:16
Stop Time: 08/22/2015 01:38:03
Qualifier Set: Default
Task Order: 150807-12
SDG: 579621
Project: 20933.01.00X
Customer: CH2M Hill Plateau Remediation Company

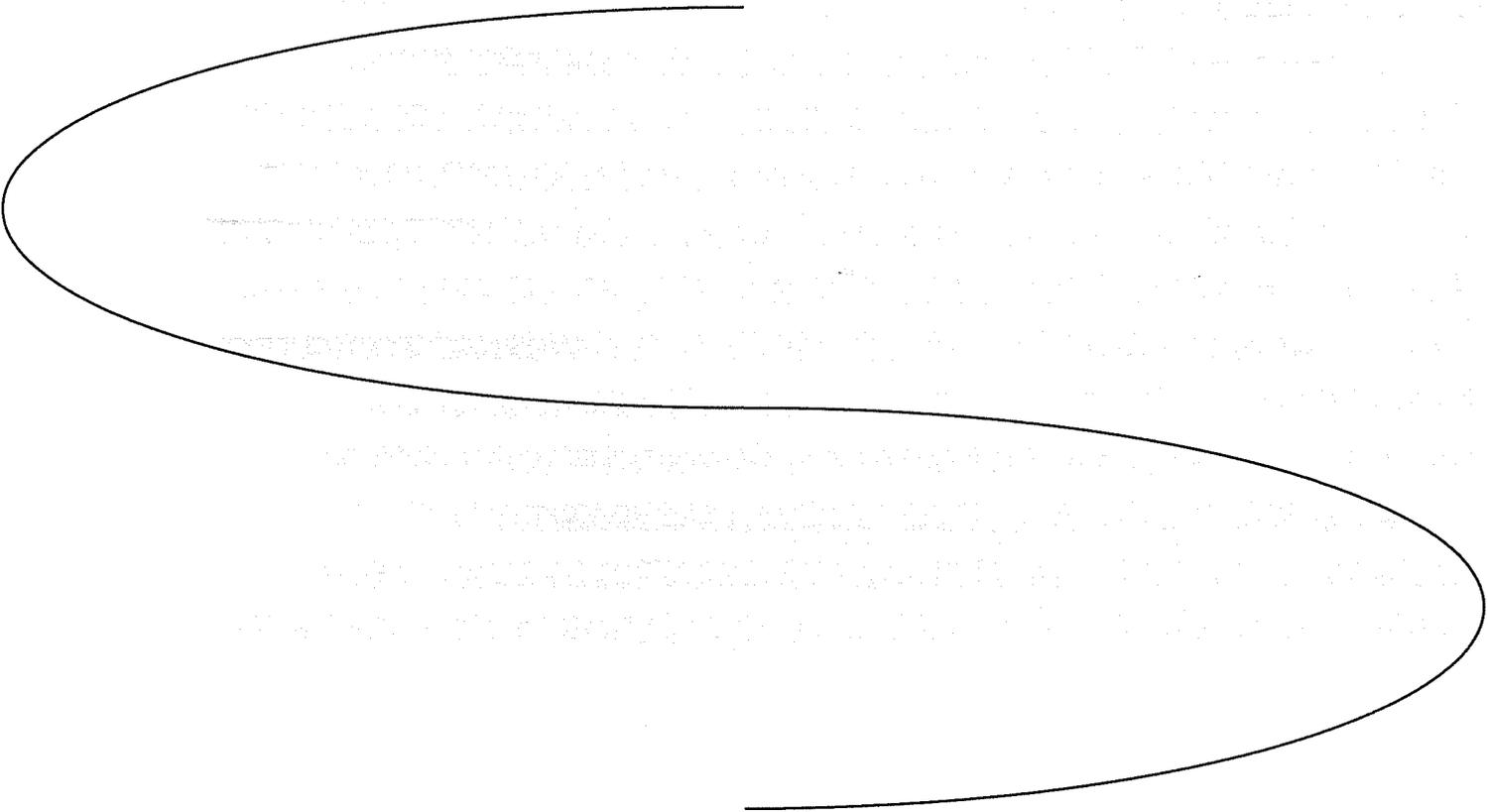
Formate/Formic acid

| <u>Sample Identification</u> | <u>Client Identification</u> | <u>Analyte Result (ug/L)</u> | <u>Final Result (mg/Kg)</u> | <u>RL (mg/Kg)</u> |
|------------------------------|------------------------------|------------------------------|-----------------------------|-------------------|
|------------------------------|------------------------------|------------------------------|-----------------------------|-------------------|

^ spiked 0.05 mL of 27-04-WCS11 (ChemInv# UNDEFINED, Source: UNDEFINED, Exp:) at 1000
^^ spiked .0005 mL of 27-04-WCS11 (ChemInv# UNDEFINED, Source: UNDEFINED, Exp:) at 1000

+ prepared in batch 20150903-A018
++ prepared in batch 20150903-A016

Comments: NA



U - Result is less than the SwRI Reporting Limit (RL)

Prepared by: HERRERA, JUDY

Date: 08/21/2015

Reviewed by: MOKEN, JAMES

Date: 09/04/2015

| Line | Sample | Sample Type | Level | Method | Data File | Dilution |
|------|--------------|-------------|-------|----------------------------|----------------|----------|
| 1 | ICV | Sample | | ice-as1_formate_150810.met | 150821_001.dxd | 1 |
| 2 | ICB | Sample | | ice-as1_formate_150810.met | 150821_002.dxd | 1 |
| 3 | LLC | Sample | | ice-as1_formate_150810.met | 150821_003.dxd | 1 |
| 4 | LOD | Sample | | ice-as1_formate_150810.met | 150821_004.dxd | 1 |
| 5 | LOQ1 | Sample | | ice-as1_formate_150810.met | 150821_005.dxd | 1 |
| 6 | LOQ2 | Sample | | ice-as1_formate_150810.met | 150821_006.dxd | 1 |
| 7 | LOQ3 | Sample | | ice-as1_formate_150810.met | 150821_007.dxd | 1 |
| 8 | LOQ1-R | Sample | | ice-as1_formate_150810.met | 150821_008.dxd | 1 |
| 9 | LOQ2-R | Sample | | ice-as1_formate_150810.met | 150821_009.dxd | 1 |
| 10 | PB 22-0013* | Sample | | ice-as1_formate_150810.met | 150821_010.dxd | 1 |
| 11 | LCS 22-0013* | Sample | | ice-as1_formate_150810.met | 150821_011.dxd | 1 |
| 12 | 579621 | Sample | | ice-as1_formate_150810.met | 150821_012.dxd | 1 |
| 13 | CCV | Sample | | ice-as1_formate_150810.met | 150821_013.dxd | 1 |
| 14 | CCB | Sample | | ice-as1_formate_150810.met | 150821_014.dxd | 1 |
| 15 | 579622 | Sample | | ice-as1_formate_150810.met | 150821_015.dxd | 1 |
| 16 | 579623 | Sample | | ice-as1_formate_150810.met | 150821_016.dxd | 1 |
| 17 | 579624 | Sample | | ice-as1_formate_150810.met | 150821_017.dxd | 1 |
| 18 | 579625 | Sample | | ice-as1_formate_150810.met | 150821_018.dxd | 1 |
| 19 | 579626 | Sample | | ice-as1_formate_150810.met | 150821_019.dxd | 1 |
| 20 | 579627 | Sample | | ice-as1_formate_150810.met | 150821_020.dxd | 1 |
| 21 | 579628 | Sample | | ice-as1_formate_150810.met | 150821_021.dxd | 1 |
| 22 | 579629 | Sample | | ice-as1_formate_150810.met | 150821_022.dxd | 1 |
| 23 | 579630 | Sample | | ice-as1_formate_150810.met | 150821_023.dxd | 1 |
| 24 | 579631 | Sample | | ice-as1_formate_150810.met | 150821_024.dxd | 1 |
| 25 | CCV2 | Sample | | ice-as1_formate_150810.met | 150821_025.dxd | 1 |
| 26 | CCB2 | Sample | | ice-as1_formate_150810.met | 150821_026.dxd | 1 |
| 27 | 579632 | Sample | | ice-as1_formate_150810.met | 150821_027.dxd | 1 |
| 28 | 579633 | Sample | | ice-as1_formate_150810.met | 150821_028.dxd | 1 |
| 29 | 579634 | Sample | | ice-as1_formate_150810.met | 150821_029.dxd | 1 |
| 30 | 579635 | Sample | | ice-as1_formate_150810.met | 150821_030.dxd | 1 |
| 31 | 579636 | Sample | | ice-as1_formate_150810.met | 150821_031.dxd | 1 |
| 32 | 579637 | Sample | | ice-as1_formate_150810.met | 150821_032.dxd | 1 |
| 33 | 579638 | Sample | | ice-as1_formate_150810.met | 150821_033.dxd | 1 |
| 34 | 579639 | Sample | | ice-as1_formate_150810.met | 150821_034.dxd | 1 |
| 35 | 579640 | Sample | | ice-as1_formate_150810.met | 150821_035.dxd | 1 |
| 36 | 579621D | Sample | | ice-as1_formate_150810.met | 150821_036.dxd | 1 |
| 37 | CCV3 | Sample | | ice-as1_formate_150810.met | 150821_037.dxd | 1 |
| 38 | CCB3 | Sample | | ice-as1_formate_150810.met | 150821_038.dxd | 1 |

010047

Default Method Path: C:\PEAKNET\METHOD.ACI

Default Data Path: C:\PEAKNET\DATA\150821

Comment:

CH2M Hill Plateau Remediation Company; 20033-01-006, TO# 150807-12

20859.01.006

*CI 08125/15gcu

*W 8128/15gcu

"M" INDICATES MANUAL INTEGRATION

ICV:
27-04-10-10 WCSI TE 919115gcu
T.V. = 10 ppm

LLC:
27-04-10-10 WCSI TE 919115gcu
T.V. = 0.100 ppm

EP:
5000-3
1000-1
200-H

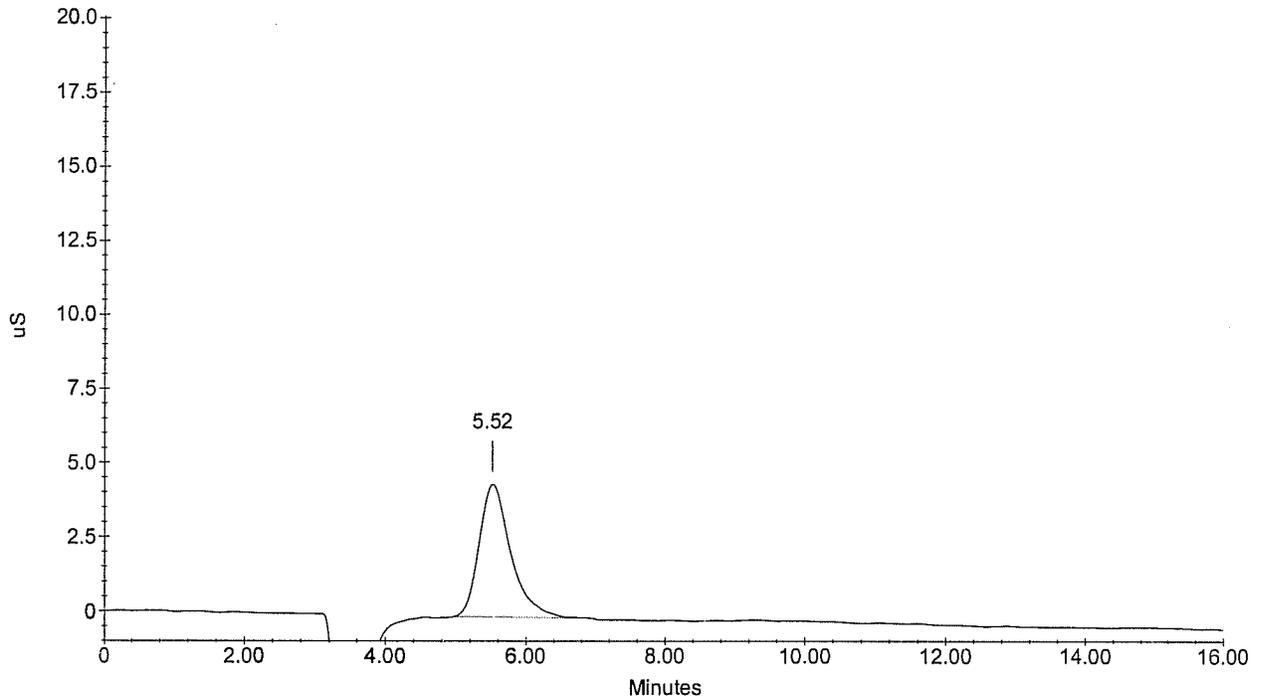
Jeanylene
8/25/15

Sample Name : ICV
 Dilution Factor : 1.00
 Injection Number : 1
 Data File Name : ...150821_001.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 1:49:16 PM 010048
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|----------|-----------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 5.52 | FORMATE | 9741.031 | 4430400 | 139609739 | 1 | -0.54 | |
| | | | ---total(s)--- | | | | | |
| | | | 0.00 | 9741.031 | 139609739 | | | |

ICV



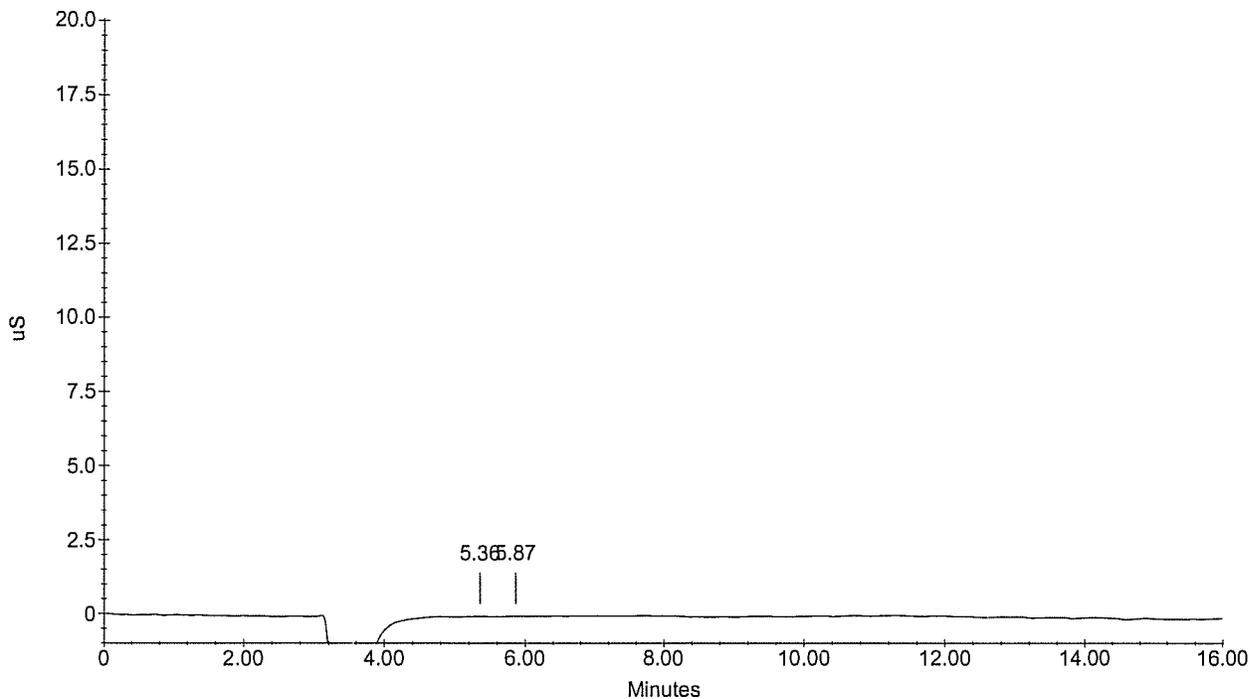
Sample Name : ICB
 Dilution Factor : 1.00
 Injection Number : 2
 Data File Name : ...150821_002.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 2:08:05 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

010049

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta |
| 1 | 5.36 | FORMATE | 88.306 | 20698 | 433973 | 1 | -3.42 |
| | | | ---total(s)--- | | | | |
| | | | 0.00 | 88.306 | 433973 | | |

ICB

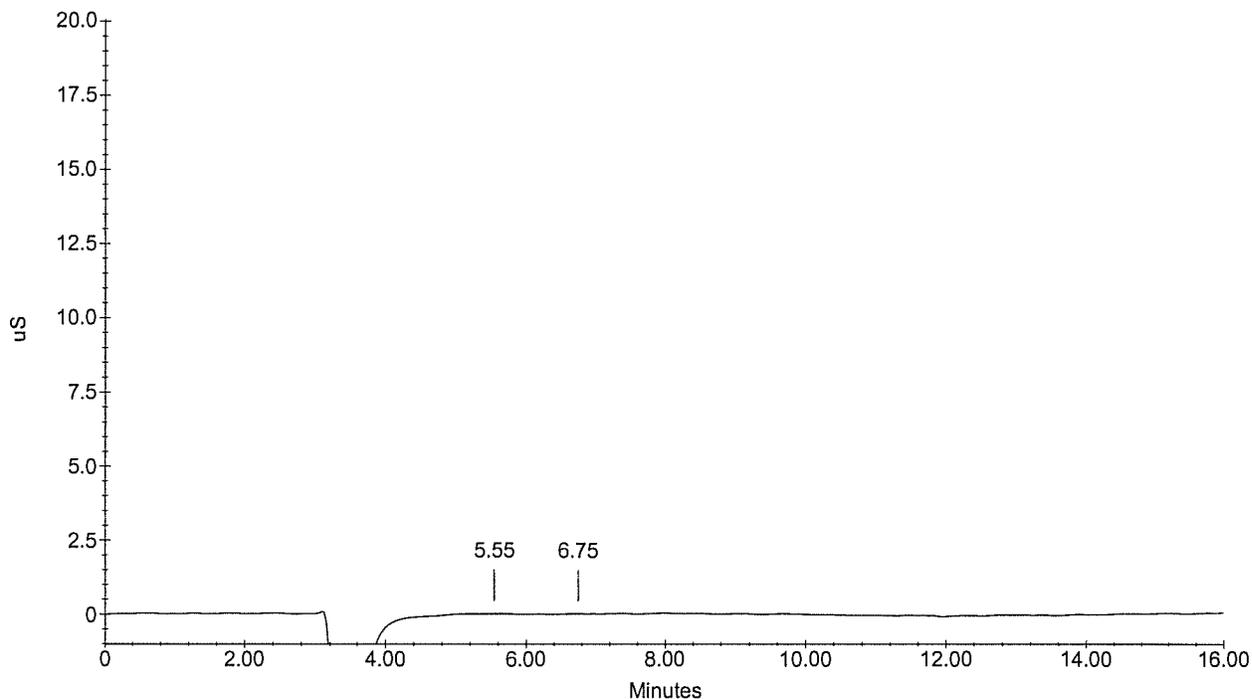


Sample Name : LLC
 Dilution Factor : 1.00
 Injection Number : 3
 Data File Name : ...\\150821_003.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 2:26:53 PM 010050
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|---------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 5.55 | FORMATE | 143.218 | 35029 | 1224776 | 1 | -0.06 | |
| | | | ---total(s)--- | | | | | |
| 0.00 | | | 143.218 | | | 1224776 | | |

LLC



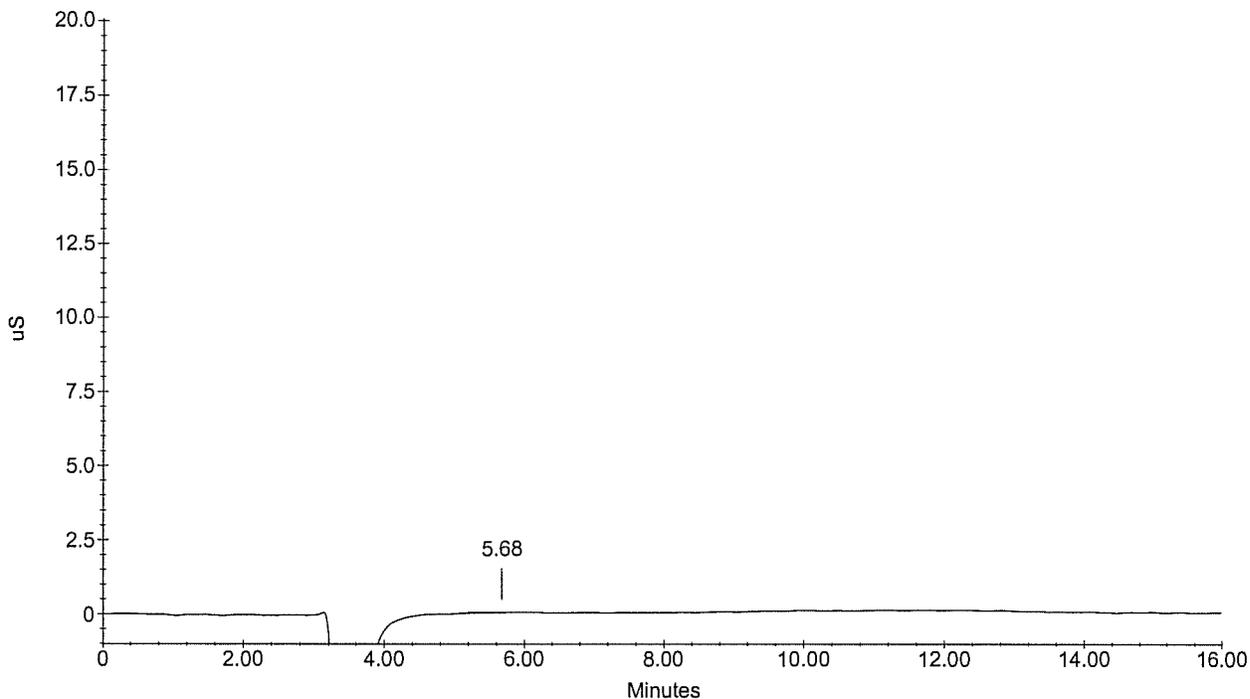
010051

Sample Name : LOD
 Dilution Factor : 1.00
 Injection Number : 4
 Data File Name : ...150821_004.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 2:45:42 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|---------|---------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 5.68 | FORMATE | 138.528 | 24720 | 1157225 | 1 | 2.34 | |
| | | | ---total(s)--- | | | | | |
| | | | 0.00 | 138.528 | 1157225 | | | |

LOD

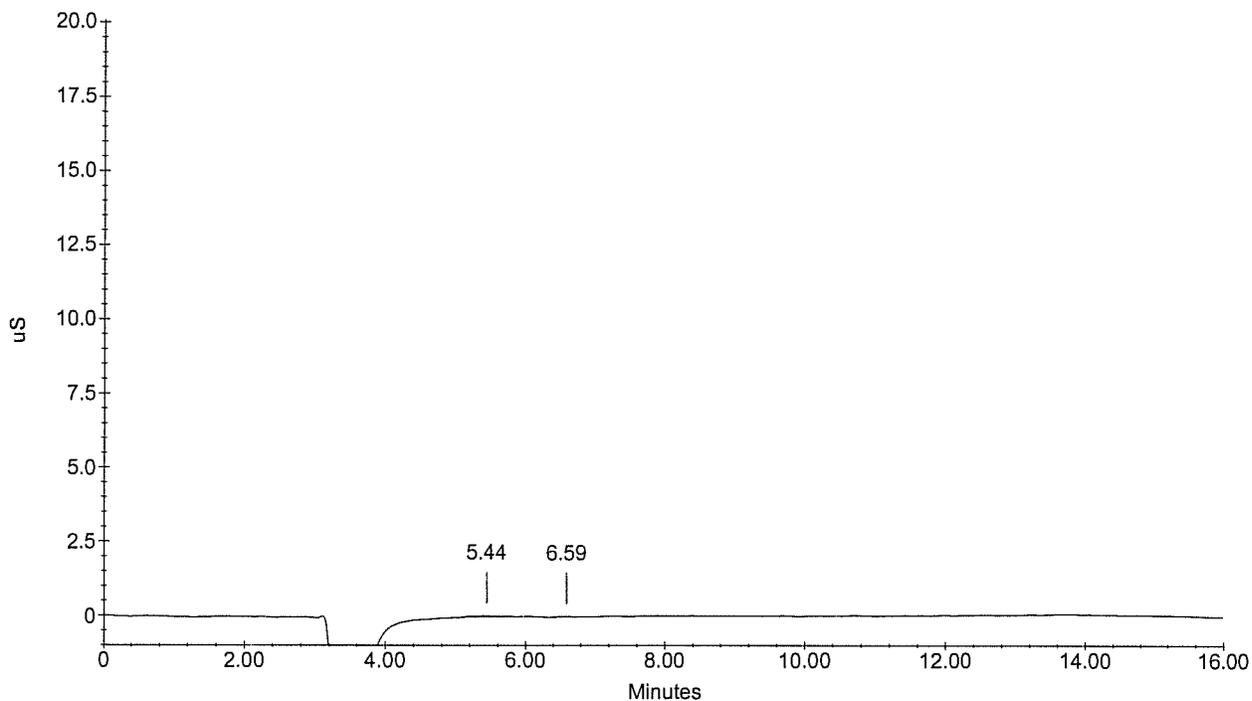


Sample Name : LOQ1
 Dilution Factor : 1.00
 Injection Number : 5
 Data File Name : ...150821_005.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 3:04:31 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|---------|---------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 5.44 | FORMATE | 131.610 | 41004 | 1057597 | 1 | -1.98 | |
| | | | ---total(s)--- | | | | | |
| | | | 0.00 | 131.610 | 1057597 | | | |

LOQ1

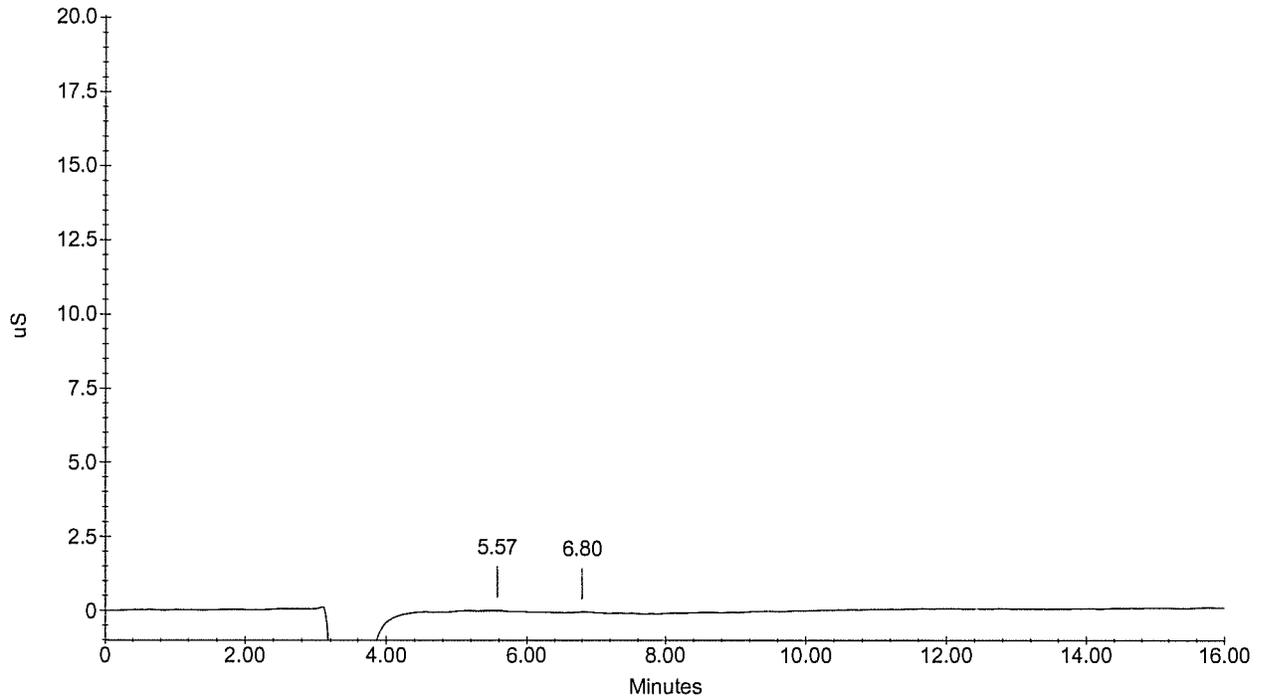


Sample Name : LOQ2
 Dilution Factor : 1.00
 Injection Number : 6
 Data File Name : ...150821_006.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 3:23:20 PM **010053**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|---------|---------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 5.57 | FORMATE | 146.515 | 45129 | 1272247 | 1 | 0.42 | |
| | | | ---total(s)--- | | | | | |
| 0.00 | | | 146.515 | 1272247 | | | | |

LOQ2



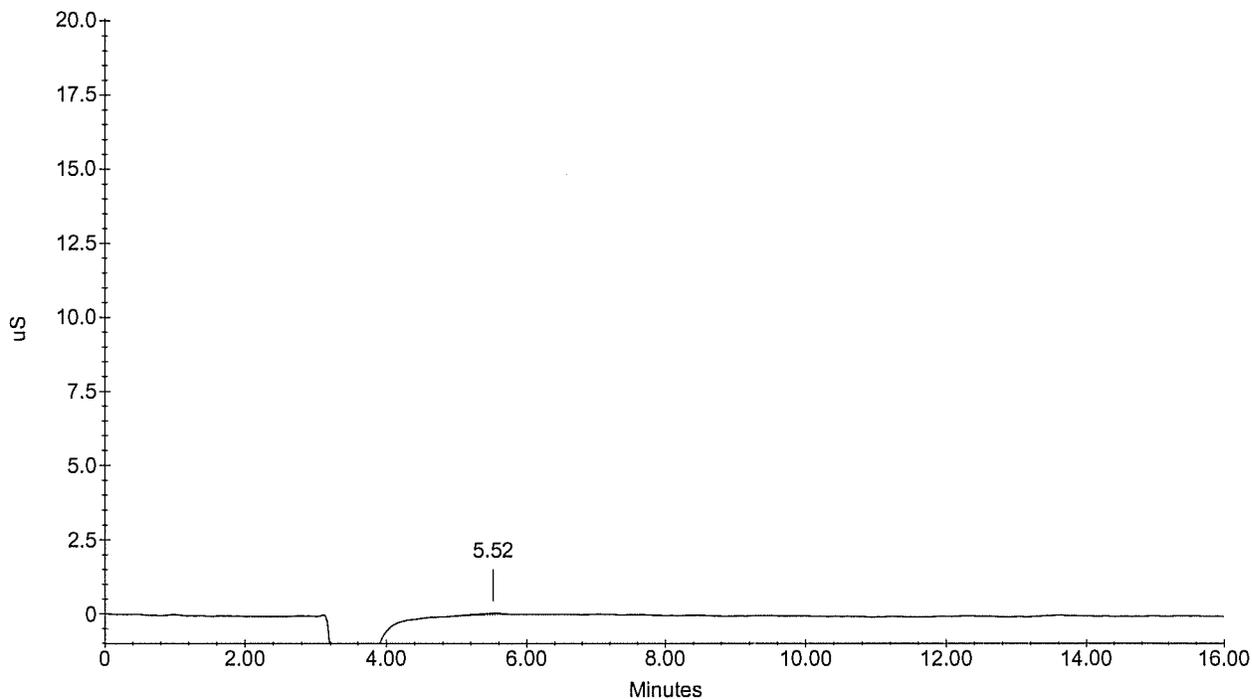
010054

Sample Name : LOQ3
 Dilution Factor : 1.00
 Injection Number : 7
 Data File Name : ...\\150821_007.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 3:42:09 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|-------------|---------|----------------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta | |
| 1 | 5.52 | FORMATE | 167.713 | 57182 | 1577527 | 1 | -0.54 | |
| | | | | | ---total(s)--- | | | |
| 0.00 | | | | 167.713 | 1577527 | | | |

LOQ3



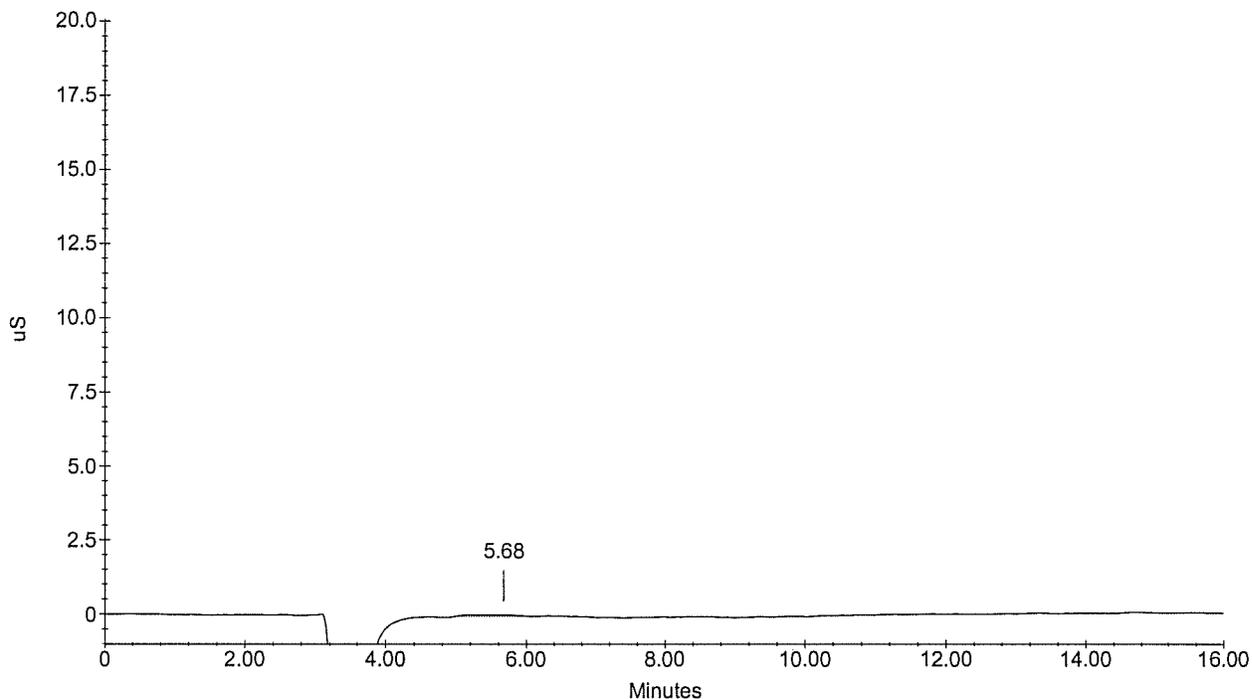
Sample Name : LOQ1-R
 Dilution Factor : 1.00
 Injection Number : 8
 Data File Name : ...\\150821_008.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 4:06:07 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

010055

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|-------------|---------|----------------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 5.68 | FORMATE | 238.164 | 54292 | 2592121 | 1 | 2.34 | |
| | | | | | ---total(s)--- | | | |
| | | | 0.00 | 238.164 | 2592121 | | | |

LOQ1-R

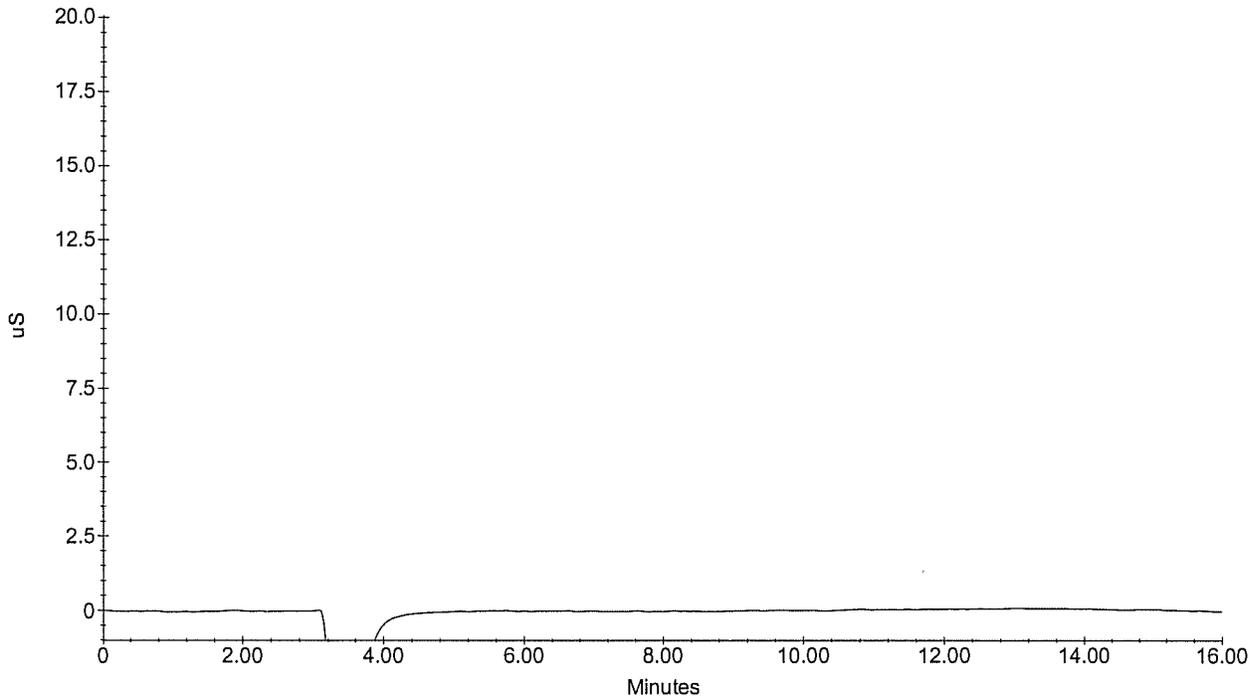


Sample Name : LOQ2-R
 Dilution Factor : 1.00
 Injection Number : 9
 Data File Name : ...\\150821_009.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 4:25:00 PM **010056**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 | |
| | | | ---total(s)--- | | | | | |
| 0.00 | | | 0.000 | | 0 | | | |

LOQ2-R

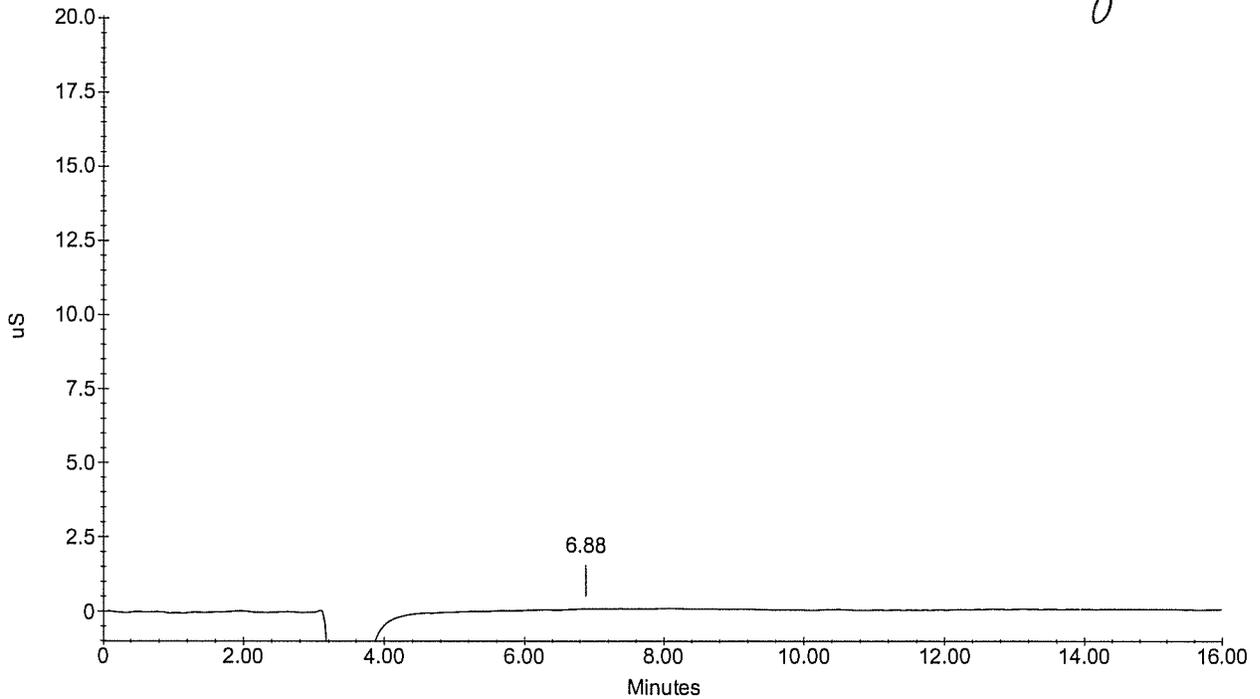


Sample Name : PB
Dilution Factor : 1.00
Injection Number : 10
Data File Name : ...\\150821_010.DXD
Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 4:51:16 PM 010057
System Name : White Dionex
Detector Name : PED-Cond.
Column Type : AS14# 010-04-080
System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta | |
| 1 | 6.88 | | 0.000 | 1698 | 134947 | 1 | | |
| | | | ---total(s)--- | | | | | |
| 0.00 | | | 0.000 | | | 134947 | | |

PB 22-00113 C108125/15gcu

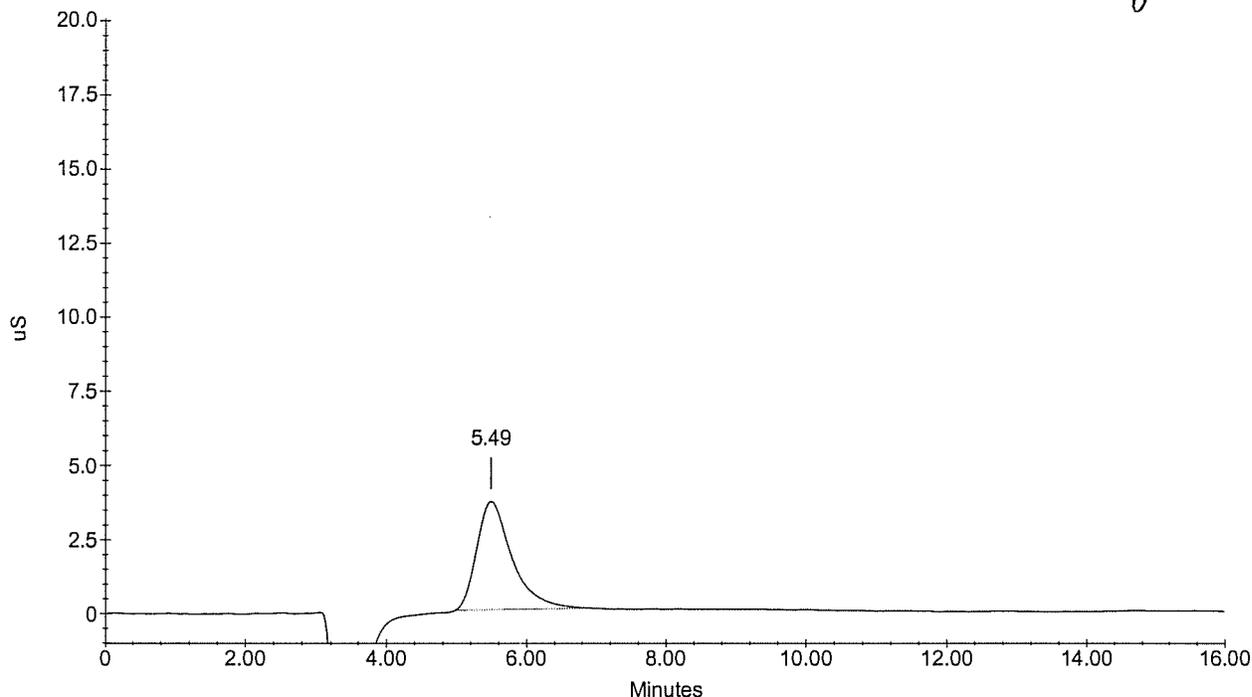


Sample Name : LCS
 Dilution Factor : 1.00
 Injection Number : 11
 Data File Name : ...\\150821_011.DXD
 Method File Name : ...\\NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 5:10:05 PM **010058**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|-----------|-----------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 5.49 | FORMATE | 8961.268 | 3643451 | 128354487 | 1 | -1.02 | |
| | | | ---total(s)--- | | | | | |
| 0.00 | | | 8961.268 | 128354487 | | | | |

LCS 22-00113 c10812f115gcu

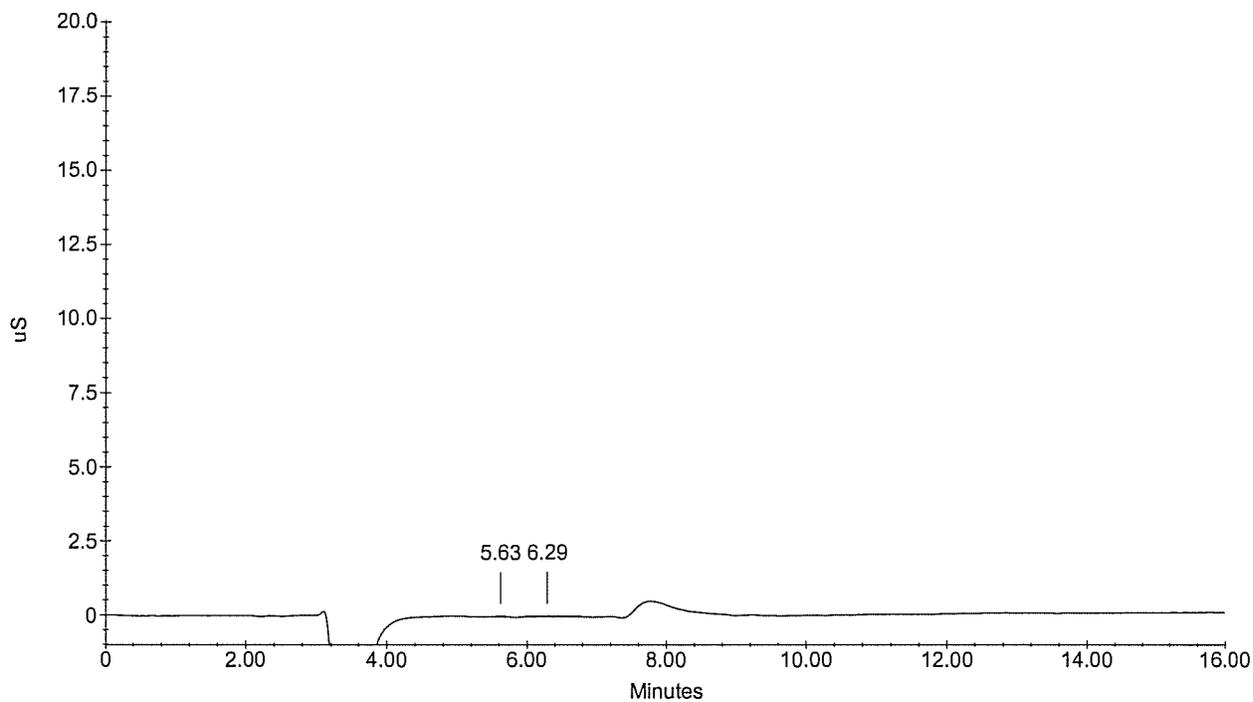


Sample Name : 579621
 Dilution Factor : 1.00
 Injection Number : 12
 Data File Name : ...\\150821_012.DXD
 Method File Name : ...\\NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 5:28:54 PM **010059**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta |
| 1 | 5.63 | FORMATE | 91.925 | 34166 | 486090 | 1 | 1.38 |
| | | | ---total(s)--- | | | | |
| | 0.00 | | 91.925 | | 486090 | | |

579621

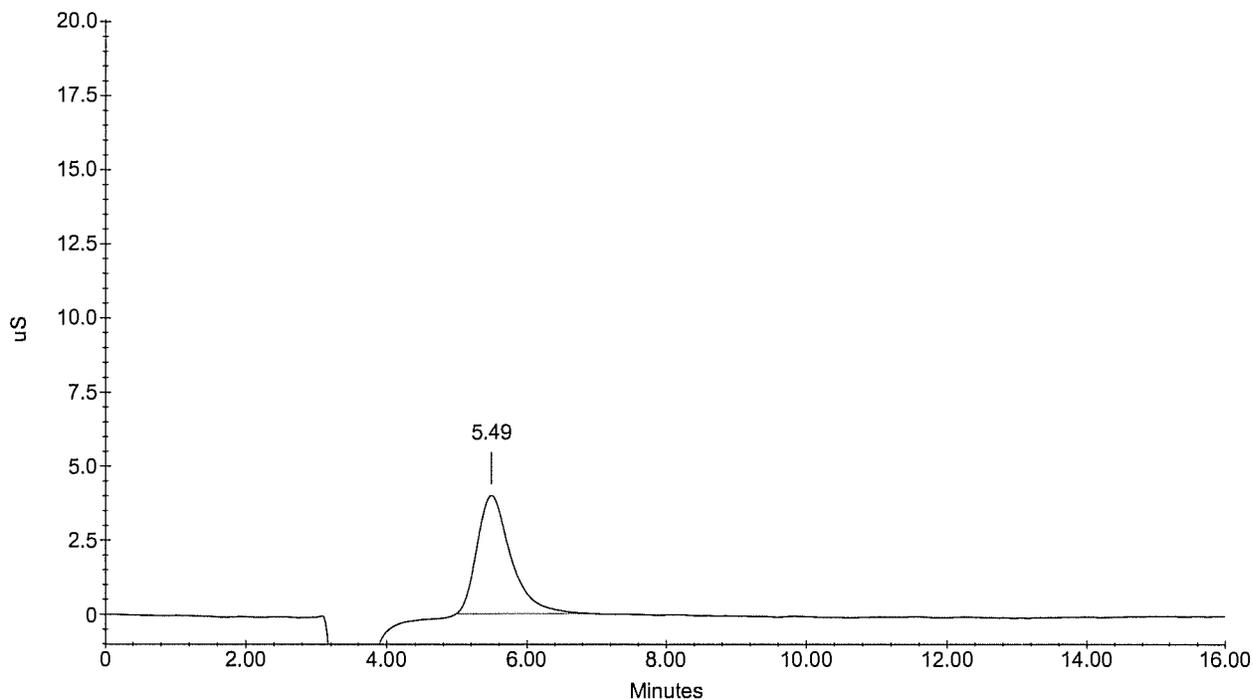


Sample Name : CCV
 Dilution Factor : 1.00
 Injection Number : 13
 Data File Name : ...150821_013.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 5:47:43 PM **010060**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|----------|-----------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta |
| 1 | 5.49 | FORMATE | 9340.865 | 3975623 | 133833391 | 1 | -1.02 |
| | | | ---total(s)--- | | | | |
| | | | 0.00 | 9340.865 | 133833391 | | |

CCV

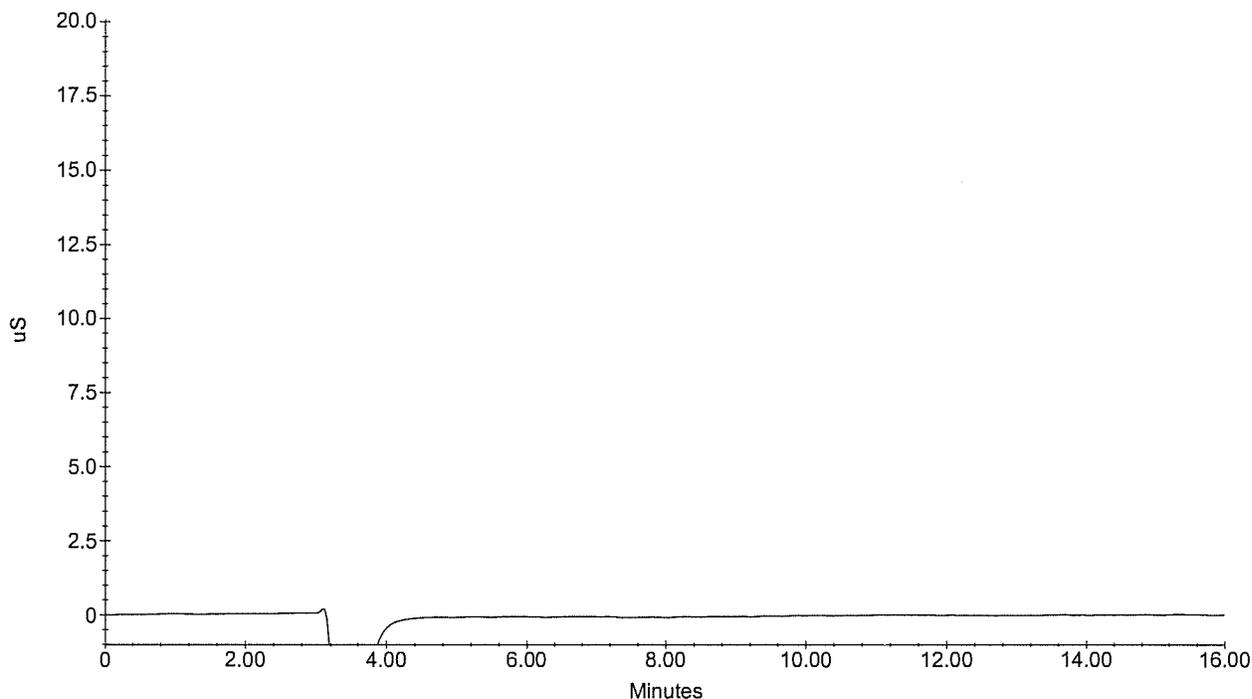


Sample Name : CCB
 Dilution Factor : 1.00
 Injection Number : 14
 Data File Name : ...\\150821_014.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 6:06:32 PM **010061**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 5.72 | FORMATE | 83.320 | 18690 | 362169 | 1 | 3.00 | |
| | | | ---total(s)--- | | | | | |
| | | | 0.00 | 83.320 | 362169 | | | |

CCB

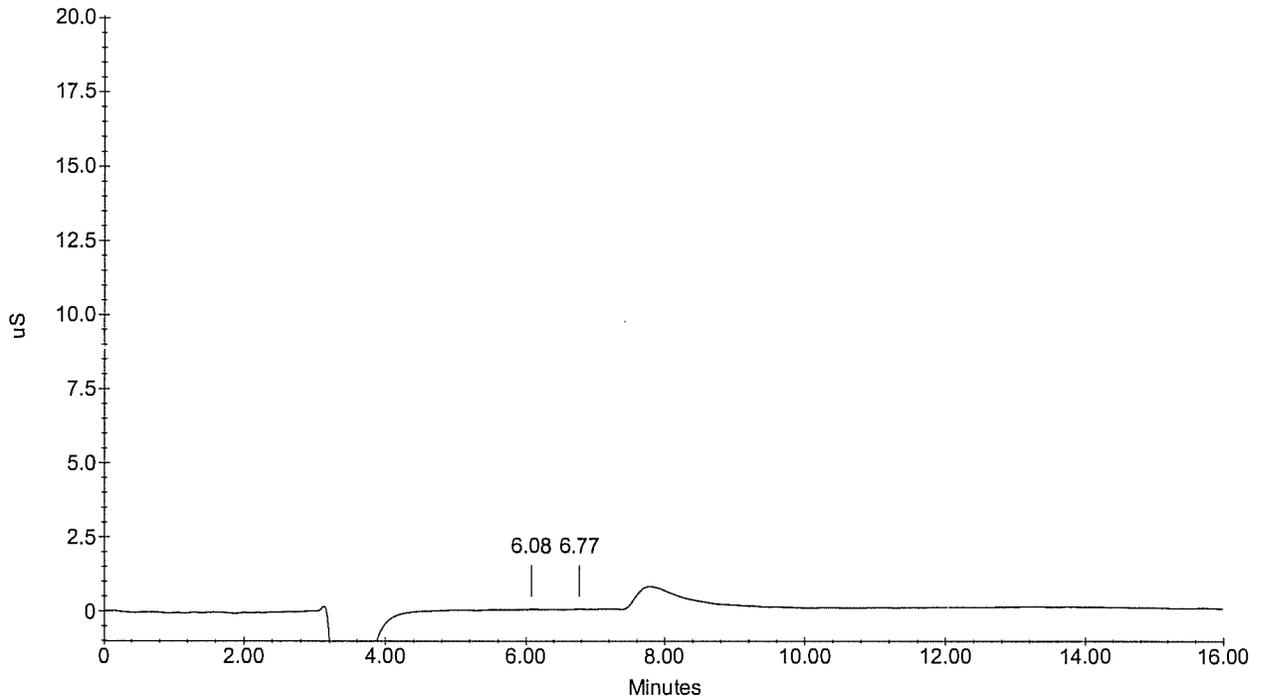


Sample Name : 579622
 Dilution Factor : 1.00
 Injection Number : 15
 Data File Name : ...150821_015.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 6:25:21 PM 010062
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|---------|-----------------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code %Delta |
| 1 | 6.08 | | 0.000 | 30591 | 1292670 | 1 |
| | | | ---total(s)--- | | | |
| | 0.00 | | 0.000 | | 1292670 | |

579622

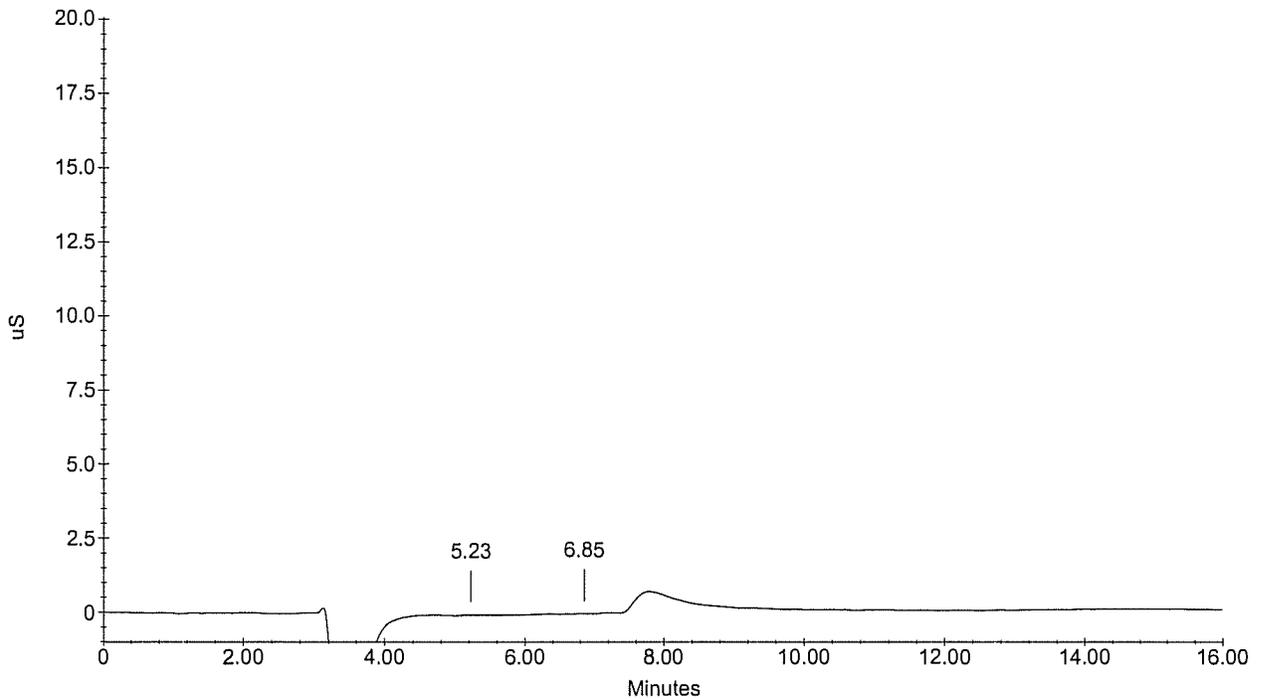


Sample Name : 579623
 Dilution Factor : 1.00
 Injection Number : 16
 Data File Name : ...\\150821_016.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 6:44:09 PM **010063**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 5.23 | | 0.000 | 32938 | 849565 | 1 | | |
| | | | ---total(s)--- | | | | | |
| | | | 0.00 | 0.000 | 849565 | | | |

579623

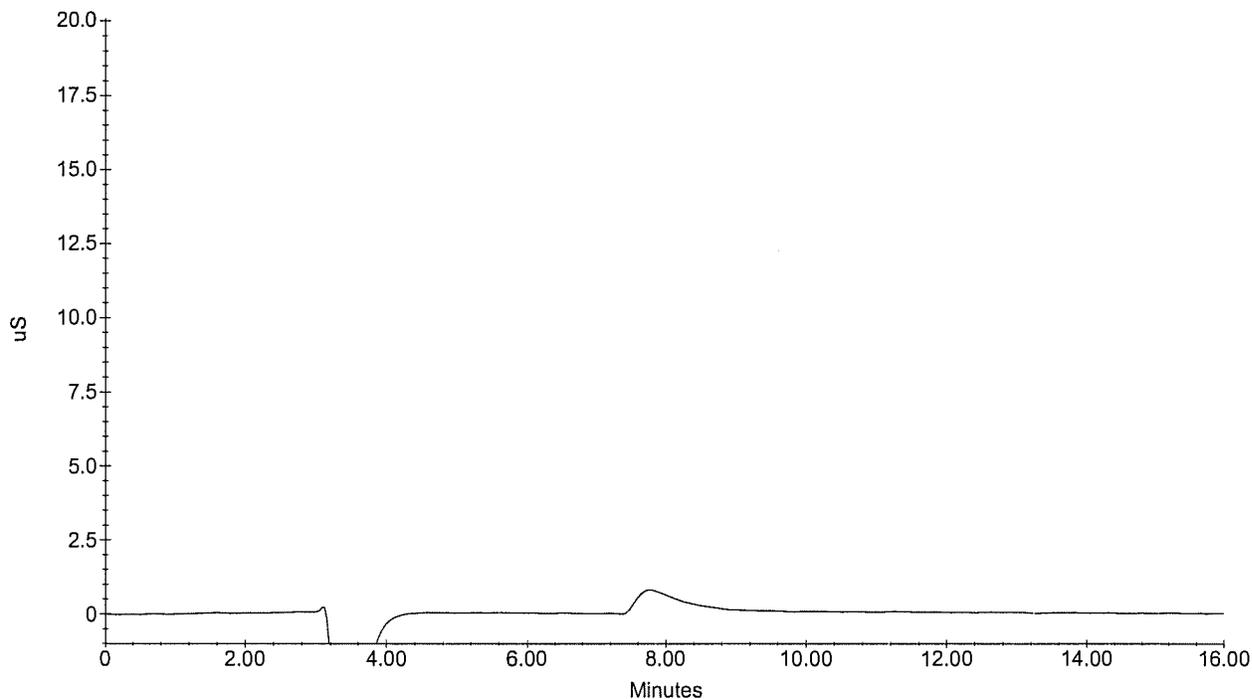


Sample Name : 579624
 Dilution Factor : 1.00
 Injection Number : 17
 Data File Name : ...\\150821_017.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 7:02:58 PM **010064**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 | |
| | | | ---total(s)--- | | | | | |
| | | | 0.00 | 0.000 | 0 | | | |

579624

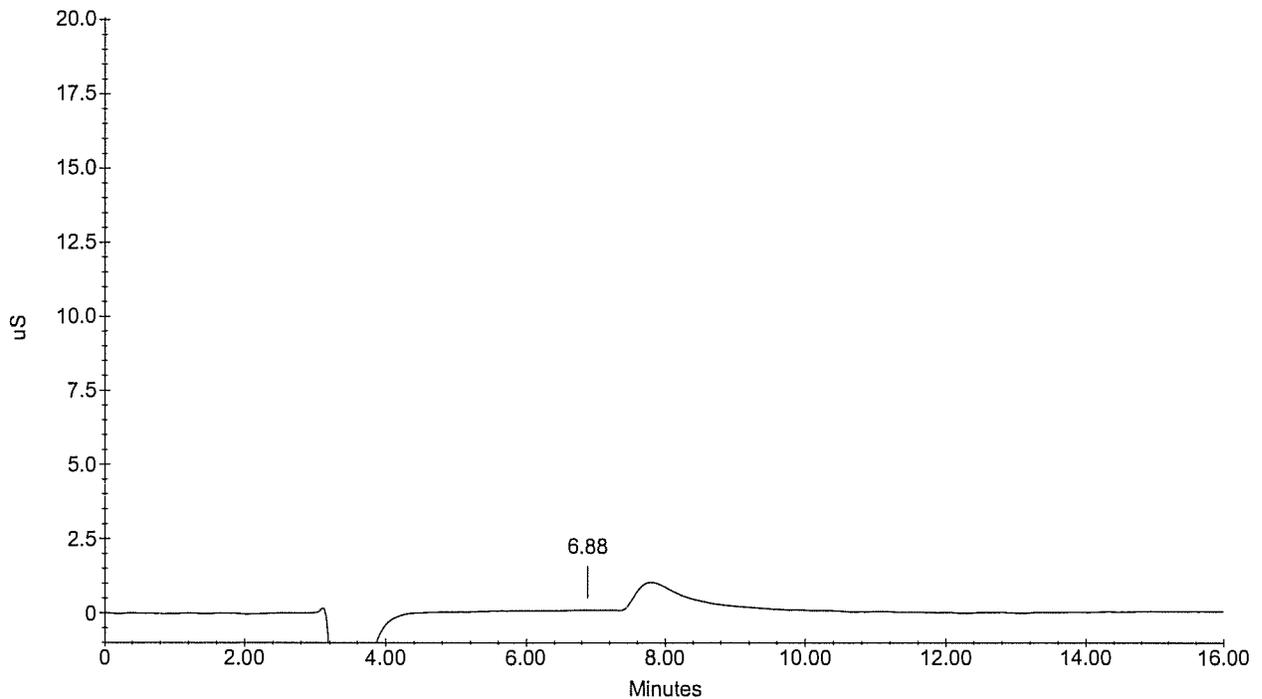


Sample Name : 579625
Dilution Factor : 1.00
Injection Number : 18
Data File Name : ...\\150821_018.DXD
Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 7:21:47 PM
System Name : White Dionex
Detector Name : PED-Cond.
Column Type : AS14# 010-04-080
System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|-------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 6.88 | | 0.000 | 1416 | 91570 | 1 | | |
| | | | ---total(s)--- | | | | | |
| 0.00 | | | 0.000 | | | 91570 | | |

579625



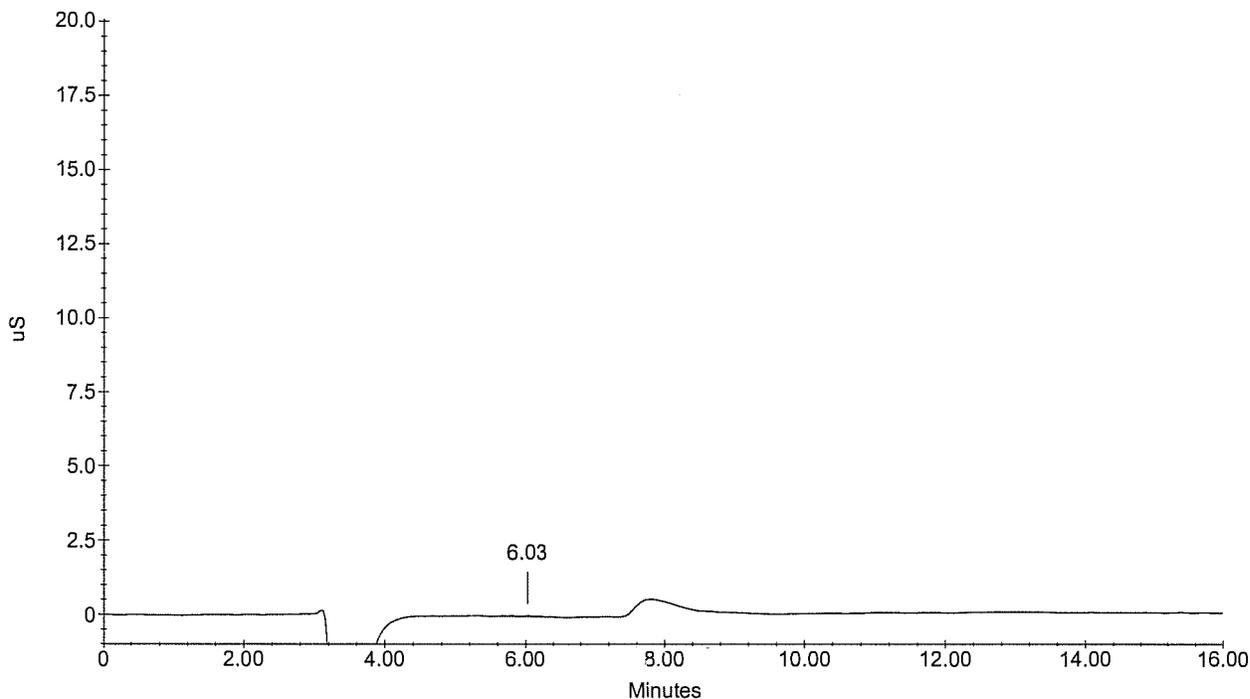
010066

Sample Name : 579626
 Dilution Factor : 1.00
 Injection Number : 19
 Data File Name : ...150821_019.DXD
 Method File Name : ...ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 7:40:36 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|---------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 6.03 | | 0.000 | 40781 | 1501047 | 1 | | |
| | | | ---total(s)--- | | | | | |
| | | | 0.00 | 0.000 | 1501047 | | | |

579626

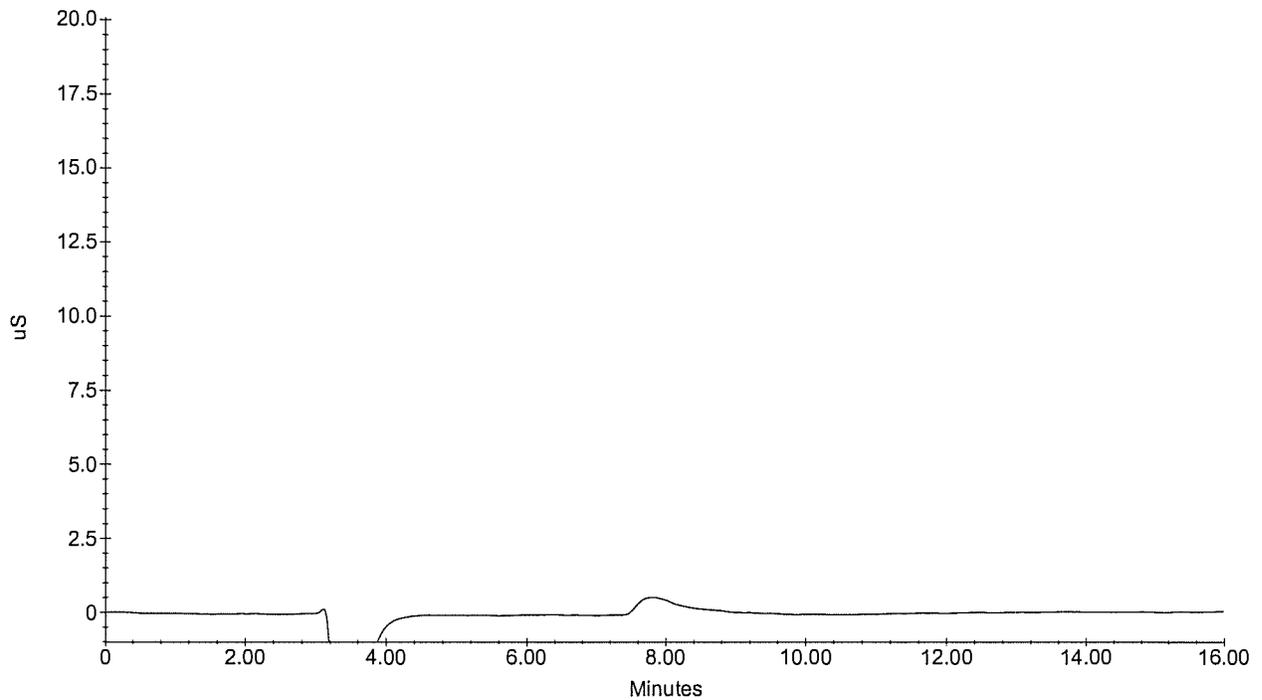


Sample Name : 579627
Dilution Factor : 1.00
Injection Number : 20
Data File Name : ...150821_020.DXD
Method File Name : ...NICE-AS1_FORMATE_150810.MET
Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 7:59:25 PM **010067**
System Name : White Dionex
Detector Name : PED-Cond.
Column Type : AS14# 010-04-080
System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 | 0 | 0.00 | |
| | | | ---total(s)--- | | | | | |
| 0.00 | | | 0.000 | | | 0 | | |

579627

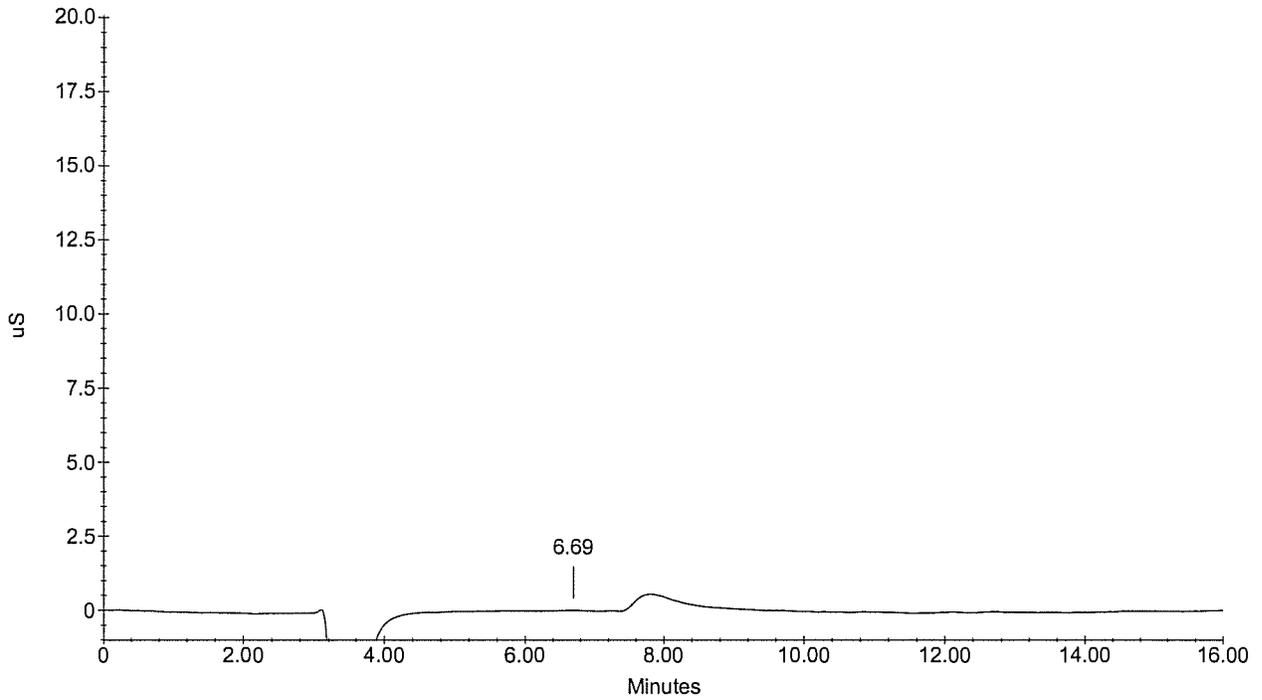


Sample Name : 579628
 Dilution Factor : 1.00
 Injection Number : 21
 Data File Name : ...150821_021.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 8:18:13 PM **010068**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|-----------------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code %Delta |
| 1 | 6.69 | | 0.000 | 19267 | 387319 | 1 |
| | | | ---total(s)--- | | | |
| | 0.00 | | 0.000 | | 387319 | |

579628

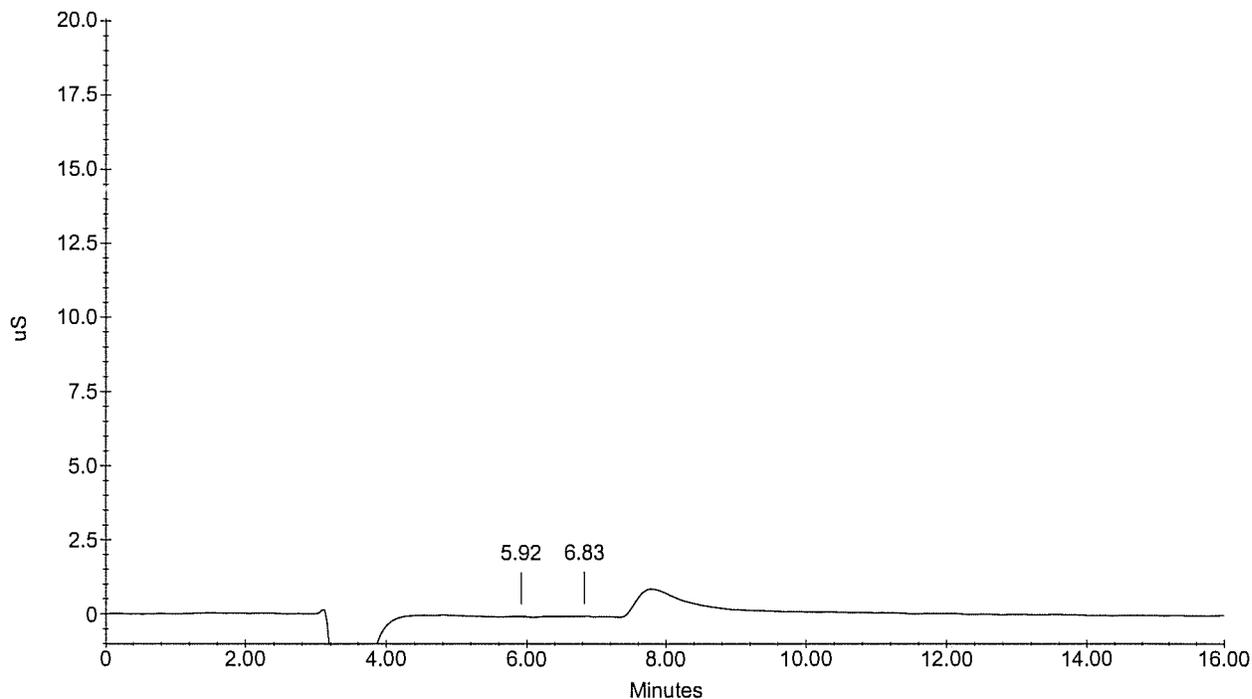


Sample Name : 579629
 Dilution Factor : 1.00
 Injection Number : 22
 Data File Name : ...\\150821_022.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 8:37:02 PM **010069**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 5.92 | | 0.000 | 25689 | 468576 | 1 | | |
| | | | ---total(s)--- | 0.000 | 468576 | | | |
| 0.00 | | | | | | | | |

579629

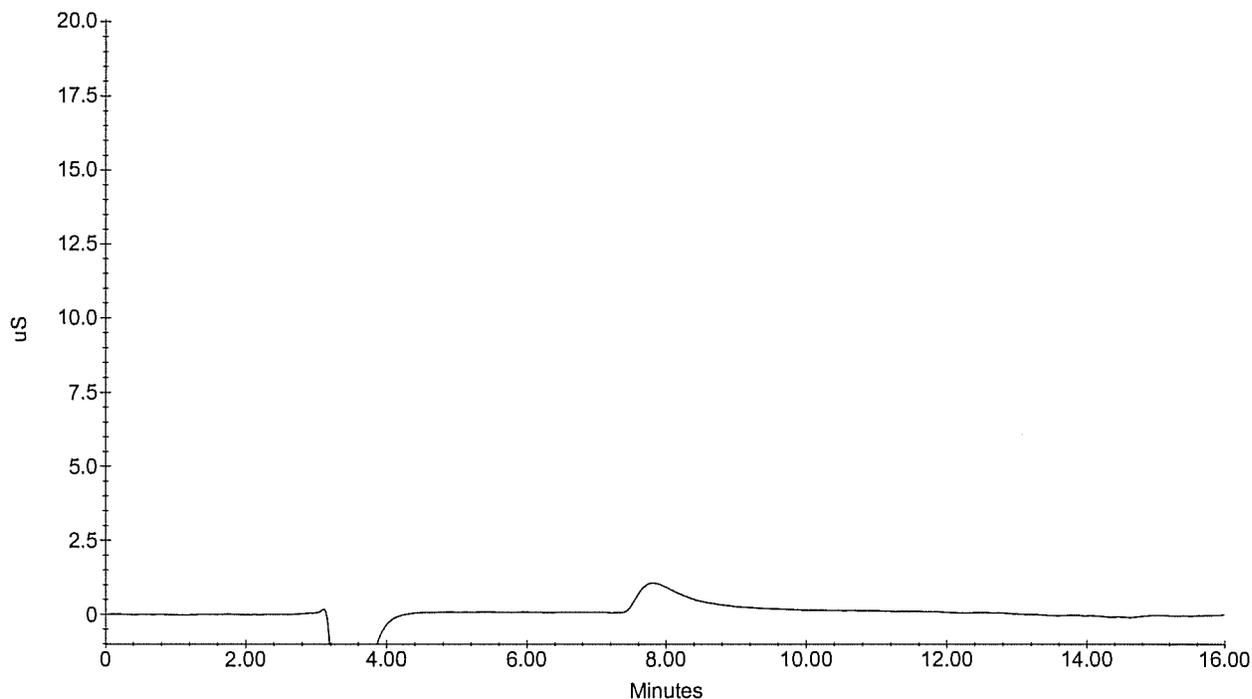


Sample Name : 579630
 Dilution Factor : 1.00
 Injection Number : 23
 Data File Name : ...\\150821_023.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 8:55:51 PM **010070**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta | |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 | |
| | | | ---total(s)--- | | | | | |
| | | | 0.00 | 0.000 | 0 | | | |

579630

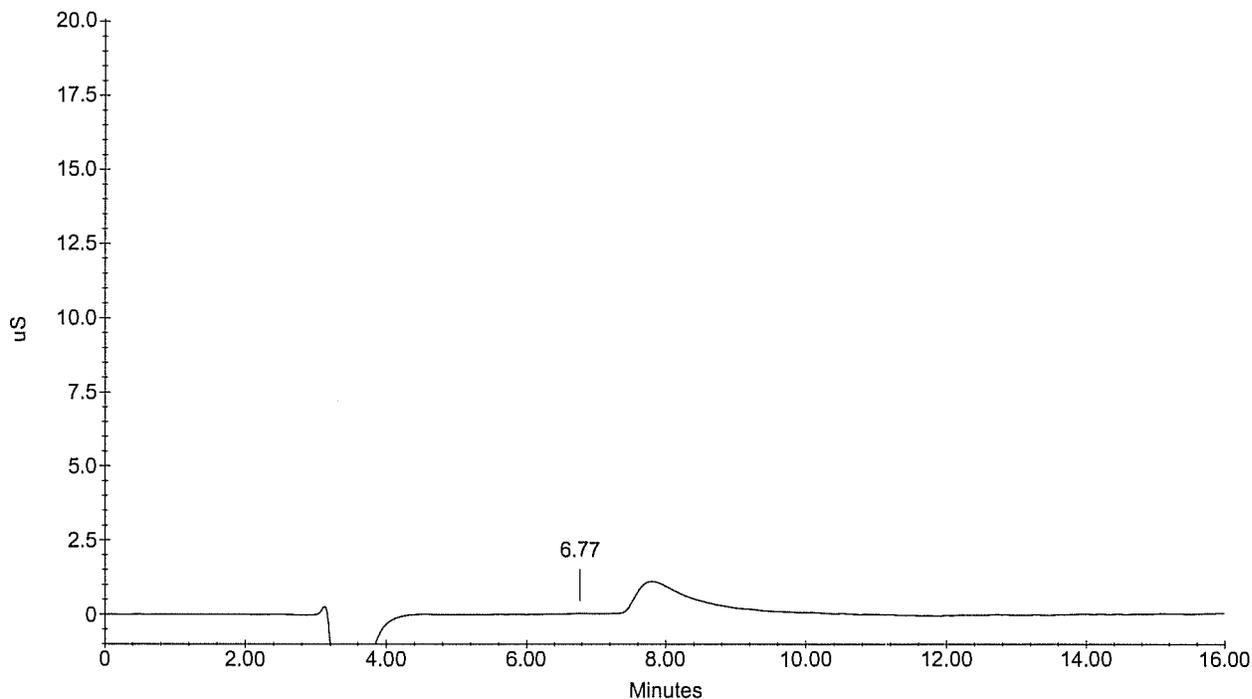


Sample Name : 579631
 Dilution Factor : 1.00
 Injection Number : 24
 Data File Name : ...150821_024.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 9:14:40 PM **010071**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|-----------------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code %Delta |
| 1 | 6.77 | | 0.000 | 12254 | 197572 | 1 |
| | | | ---total(s)--- | | | |
| | 0.00 | | 0.000 | | 197572 | |

579631

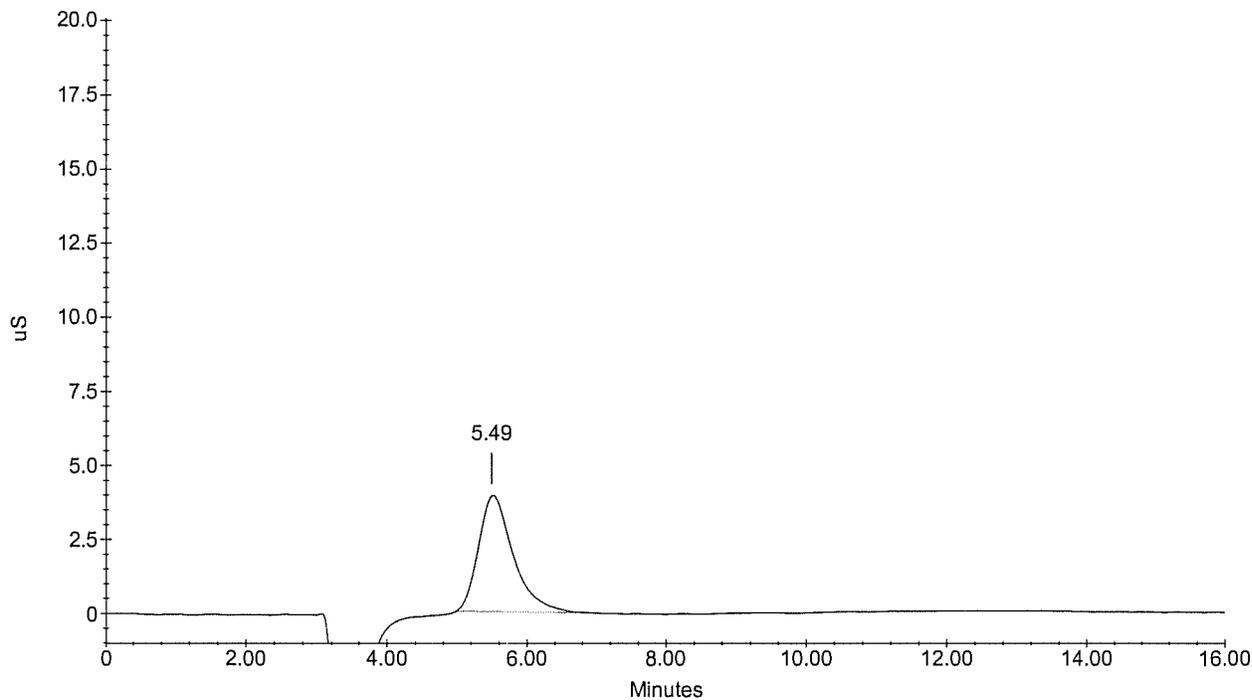


Sample Name : CCV2
 Dilution Factor : 1.00
 Injection Number : 25
 Data File Name : ...150821_025.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 9:33:29 PM **010072**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|---------|-----------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta |
| 1 | 5.49 | FORMATE | 9413.310 | 3884158 | 134879095 | 1 | -1.02 |
| | | | ---total(s)--- | | | | |
| 0.00 | | | 9413.310 | | 134879095 | | |

CCV2



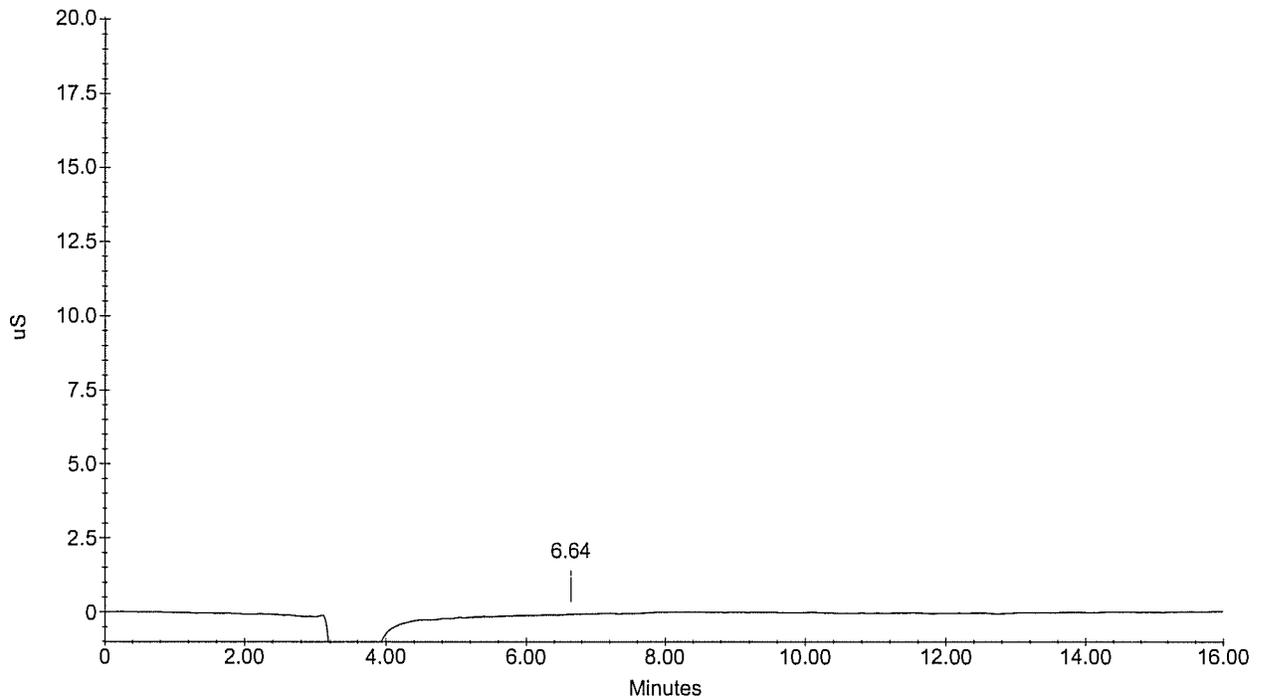
Sample Name : CCB2
 Dilution Factor : 1.00
 Injection Number : 26
 Data File Name : ...150821_026.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 9:52:17 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

010073

| Peak Information : All Components | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|---------|-----------------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code %Delta |
| 1 | 6.64 | | 0.000 | 11818 | 1342142 | 1 |
| | | | ---total(s)--- | | | |
| | 0.00 | | 0.000 | | 1342142 | |

CCB2



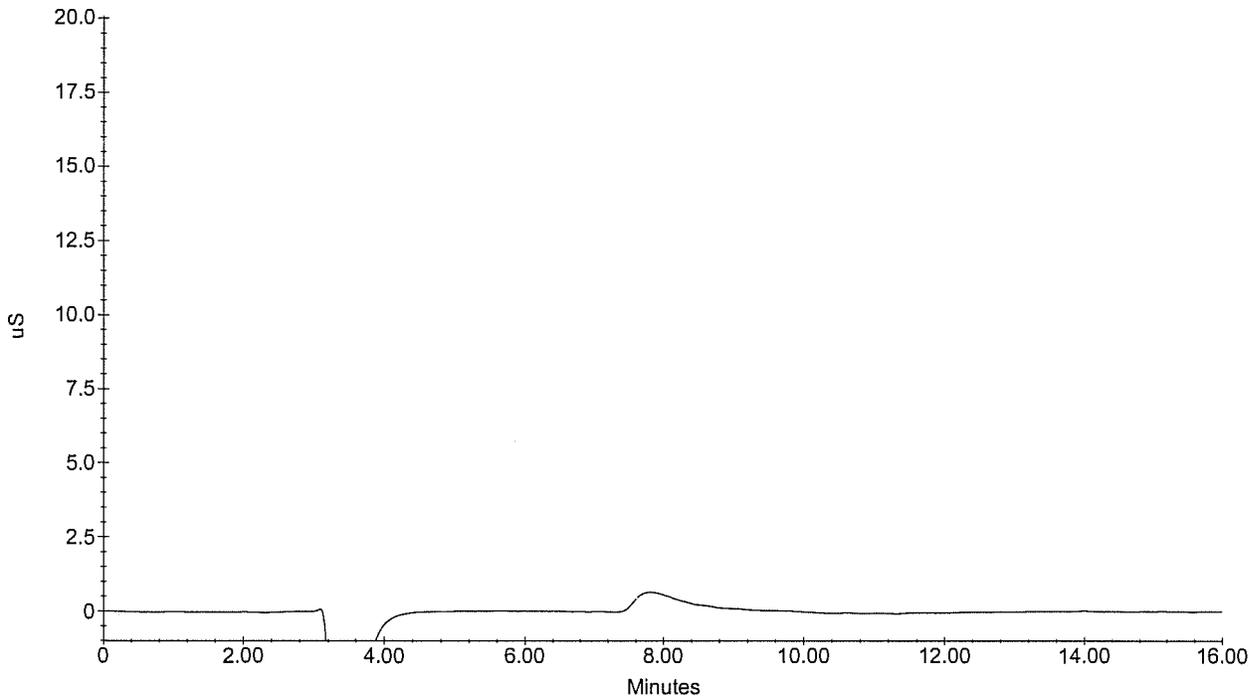
010074

Sample Name : 579632
 Dilution Factor : 1.00
 Injection Number : 27
 Data File Name : ...\\150821_027.DXD
 Method File Name : ...\\NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 10:11:06 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 | |
| | | | ---total(s)--- | 0.000 | | | 0 | |

579632

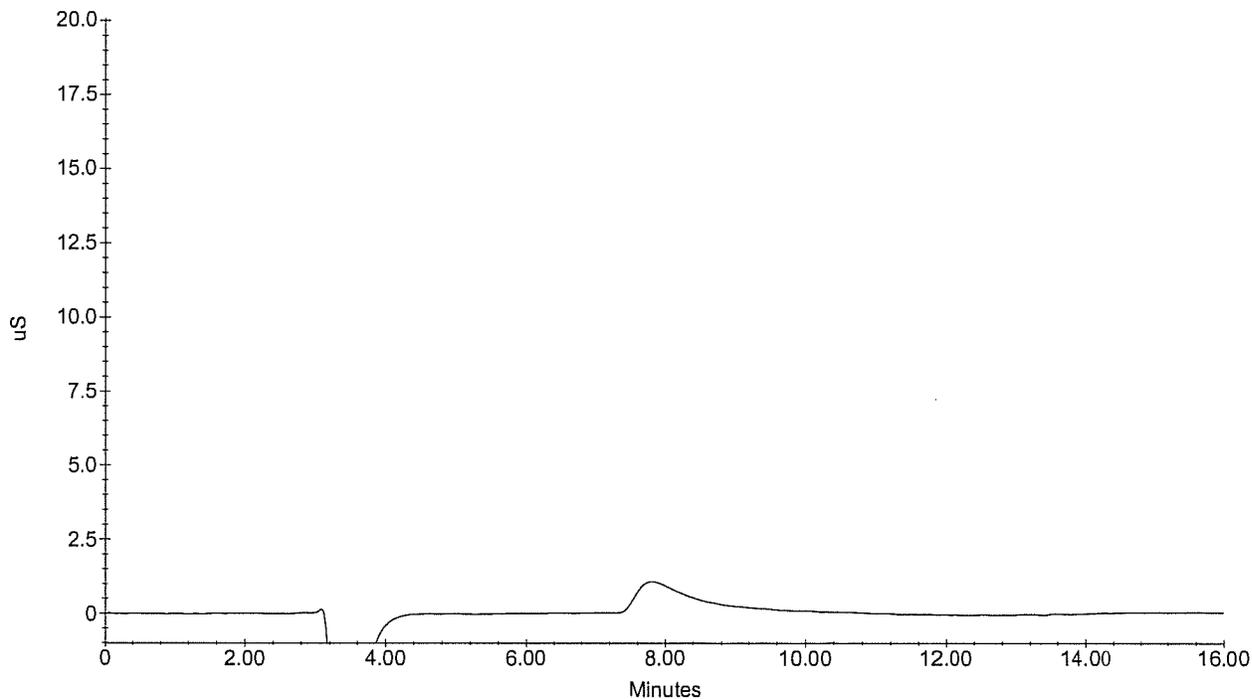


Sample Name : 579633
 Dilution Factor : 1.00
 Injection Number : 28
 Data File Name : ...\\150821_028.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 10:29:55 PM **010075**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta | |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 | |
| | | | ---total(s)--- | | | | | |
| 0.00 | | | 0.000 | | | 0 | | |

579633

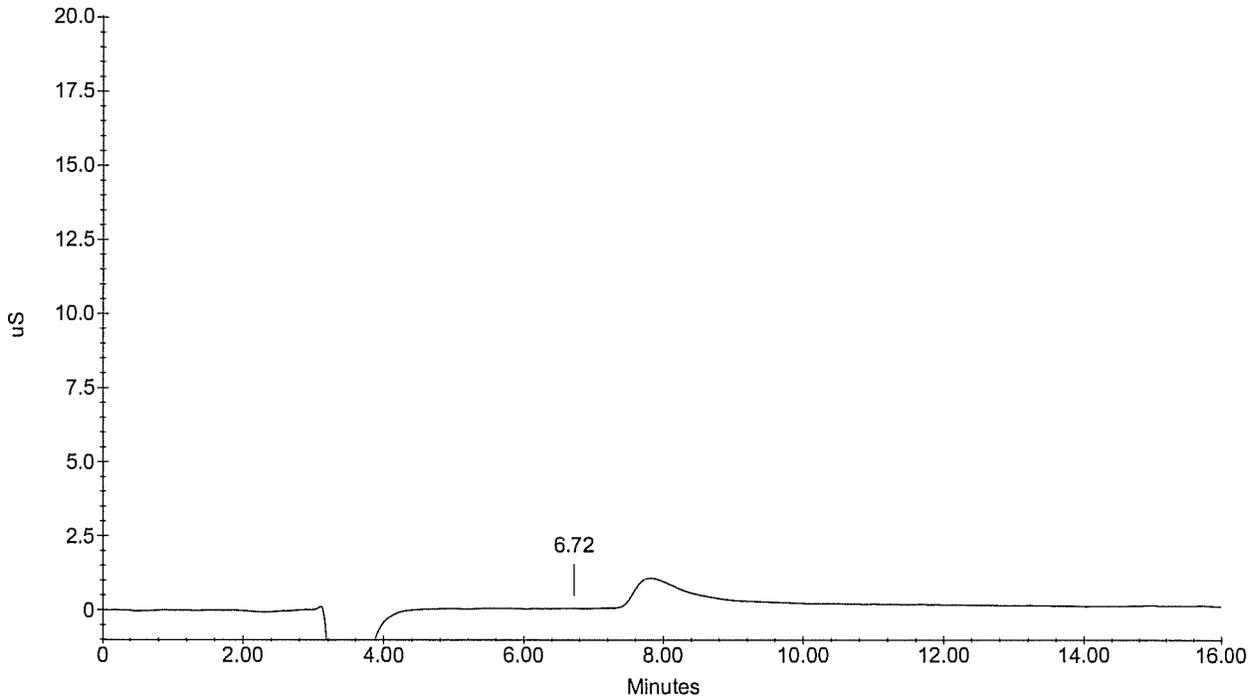


Sample Name : 579634
 Dilution Factor : 1.00
 Injection Number : 29
 Data File Name : ...\\150821_029.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/21/2015 10:48:44 PM **010076**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta | |
| 1 | 6.72 | | 0.000 | 17575 | 280681 | 1 | | |
| | | | ---total(s)--- | | | | | |
| 0.00 | | | 0.000 | | | 280681 | | |

579634

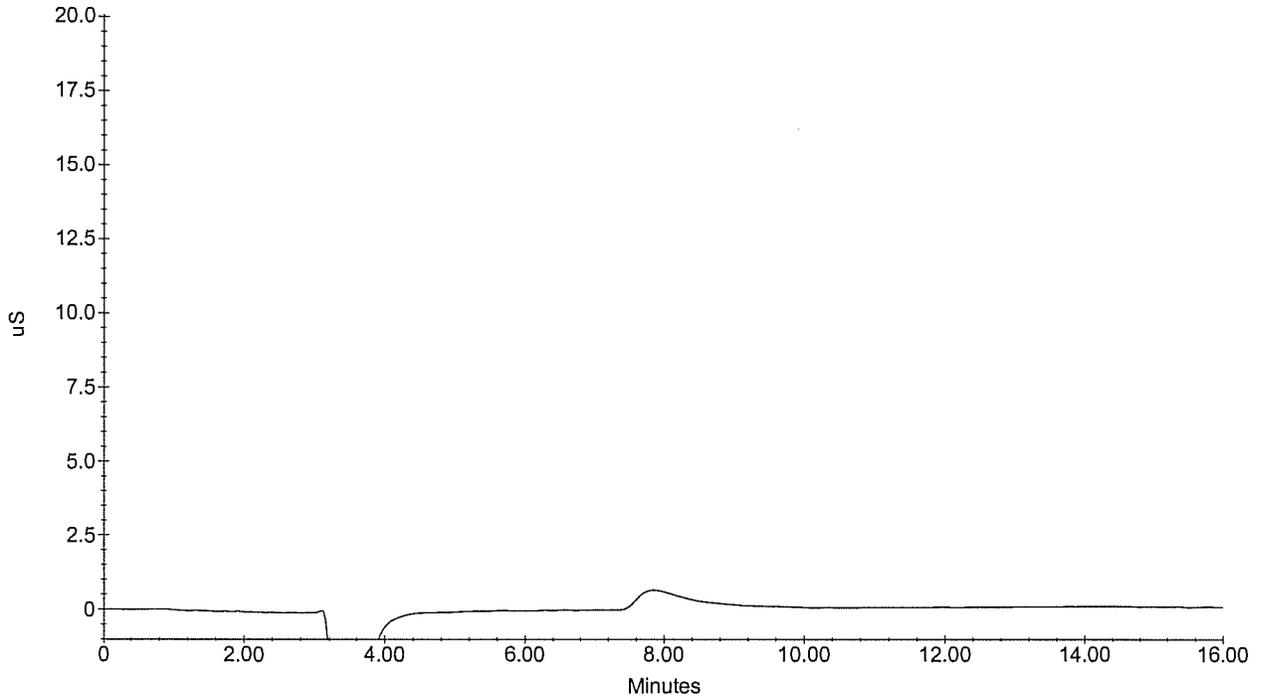


Sample Name : 579635
Dilution Factor : 1.00
Injection Number : 30
Data File Name : ...150821_030.DXD
Method File Name : ...NICE-AS1_FORMATE_150810.MET
Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 11:07:33 PM **010077**
System Name : White Dionex
Detector Name : PED-Cond.
Column Type : AS14# 010-04-080
System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta | |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 | 0 | 0.00 | |
| | | | ---total(s)--- | | | | | |
| 0.00 | | | 0.000 | | | 0 | | |

579635

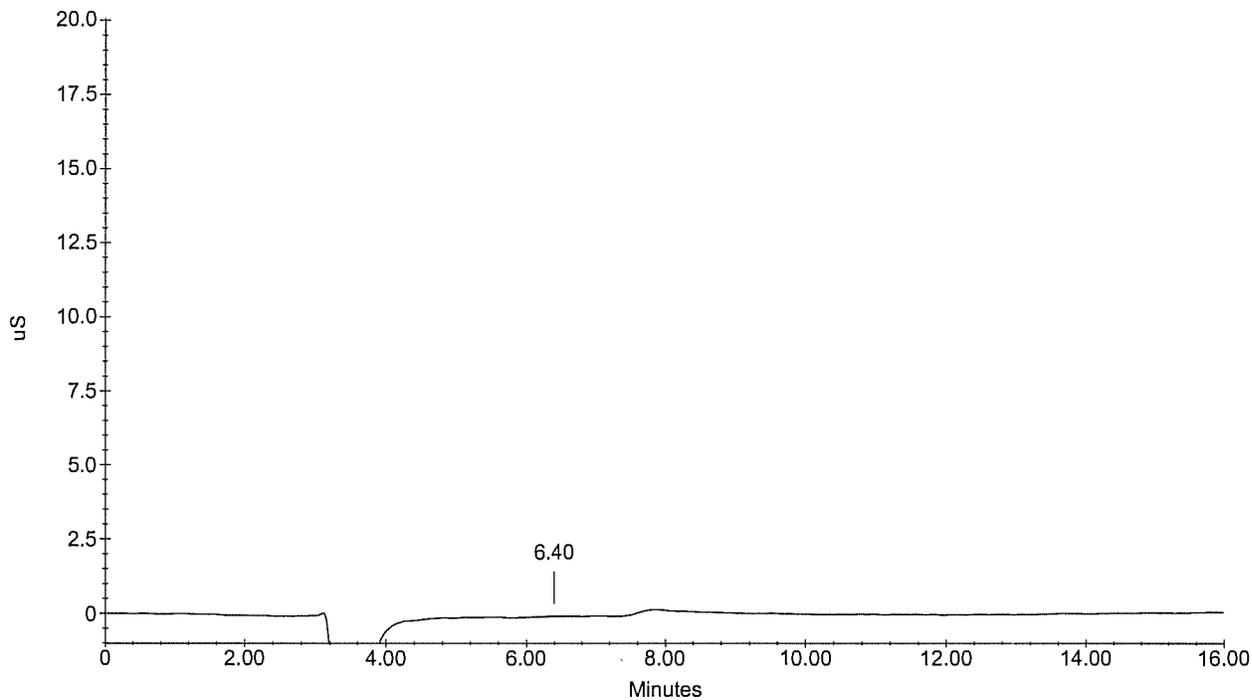


Sample Name : 579636
 Dilution Factor : 1.00
 Injection Number : 31
 Data File Name : ...150821_031.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 11:26:22 PM **010078**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|---------|-----------------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code %Delta |
| 1 | 6.40 | | 0.000 | 39024 | 1034561 | 1 |
| | | | ---total(s)--- | | | |
| | 0.00 | | 0.000 | | 1034561 | |

579636

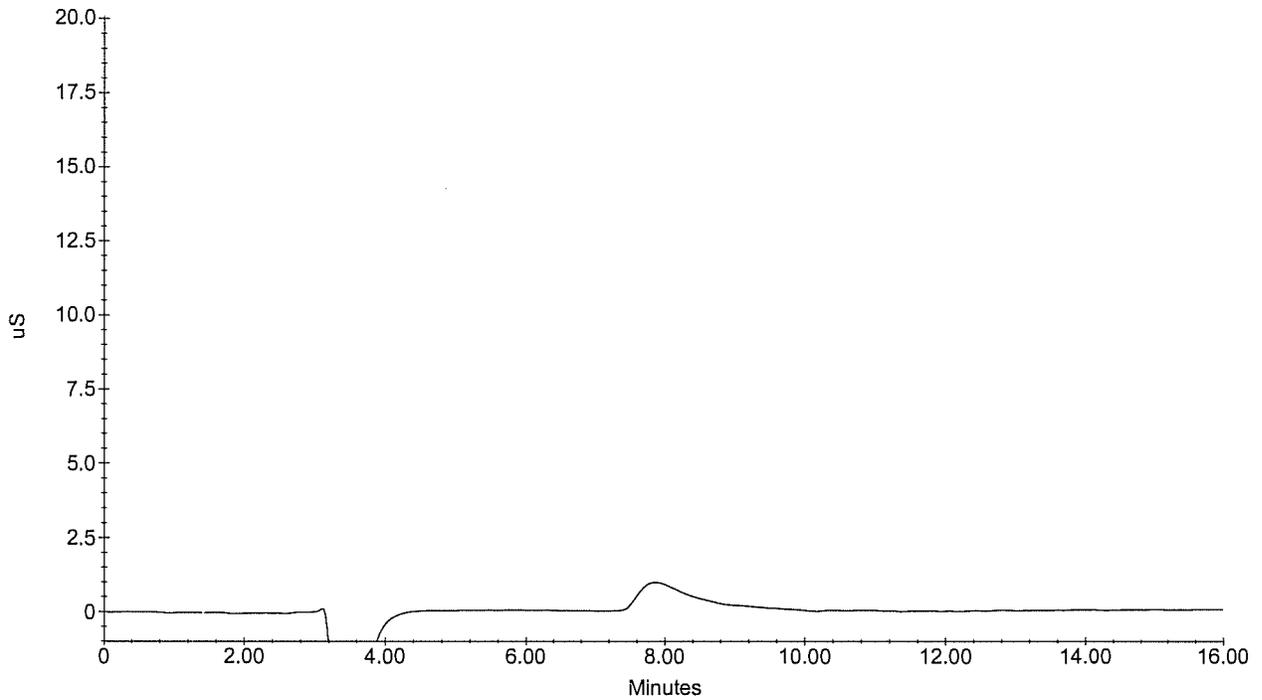


Sample Name : 579637
 Dilution Factor : 1.00
 Injection Number : 32
 Data File Name : ...150821_032.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/21/2015 11:45:10 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 | |
| | | | ---total(s)--- | 0.000 | | | 0 | |

579637

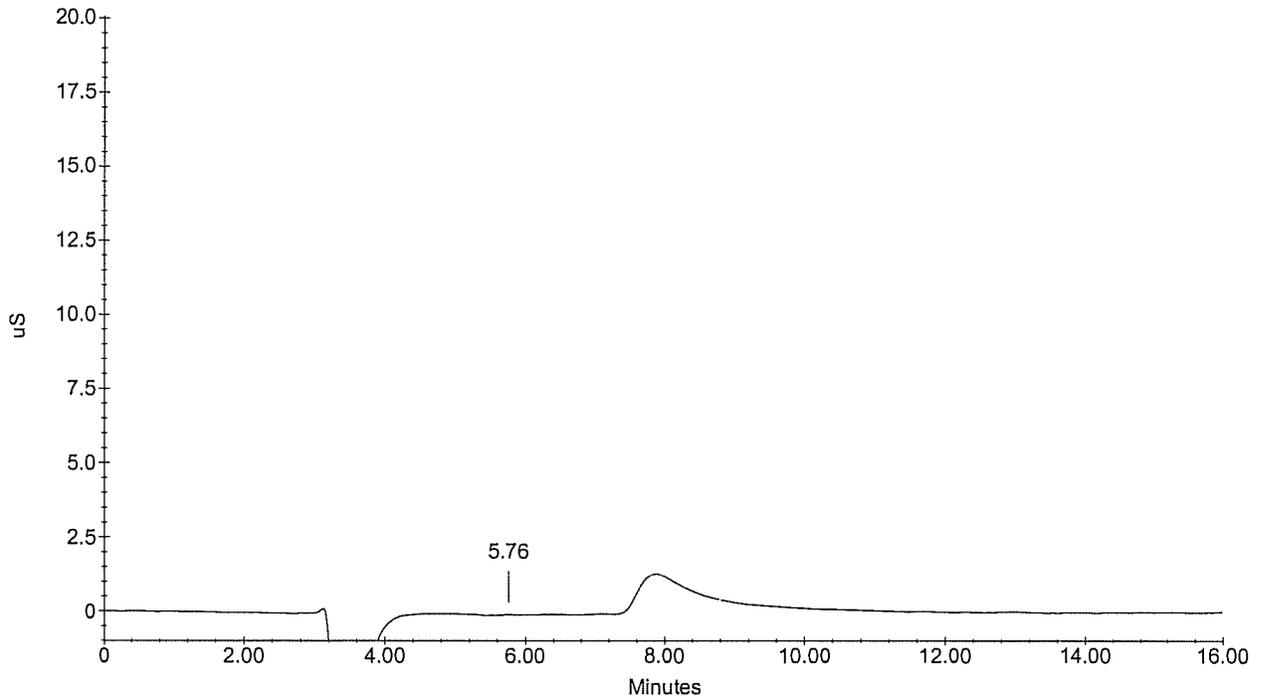


Sample Name : 579638
 Dilution Factor : 1.00
 Injection Number : 33
 Data File Name : ...\\150821_033.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/22/2015 12:03:59 AM **010080**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|-------------|--------|----------------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 5.76 | FORMATE | 78.909 | 21170 | 298645 | 1 | 3.78 | |
| | | | | | ---total(s)--- | | | |
| 0.00 | | | | | 78.909 | 298645 | | |

579638

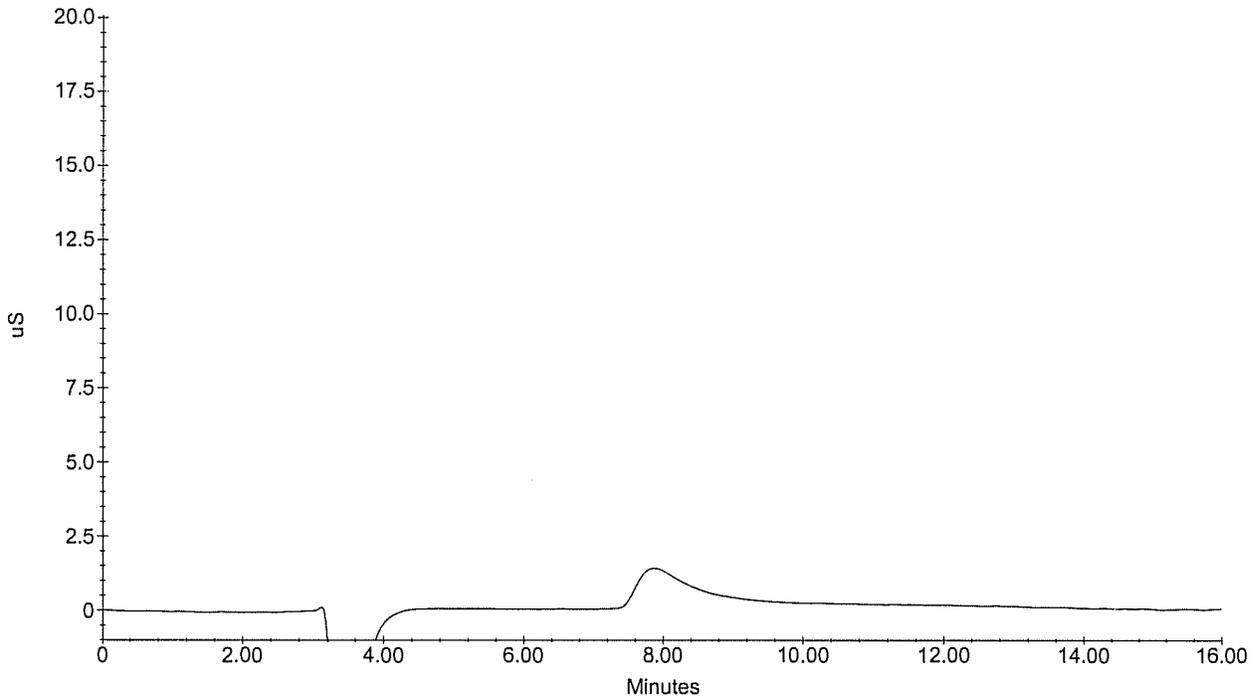


Sample Name : 579639
 Dilution Factor : 1.00
 Injection Number : 34
 Data File Name : ...150821_034.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/22/2015 12:22:48 AM **010081**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 | |
| | | | ---total(s)--- | | | | | |
| | | | 0.00 | 0.000 | 0 | | | |

579639

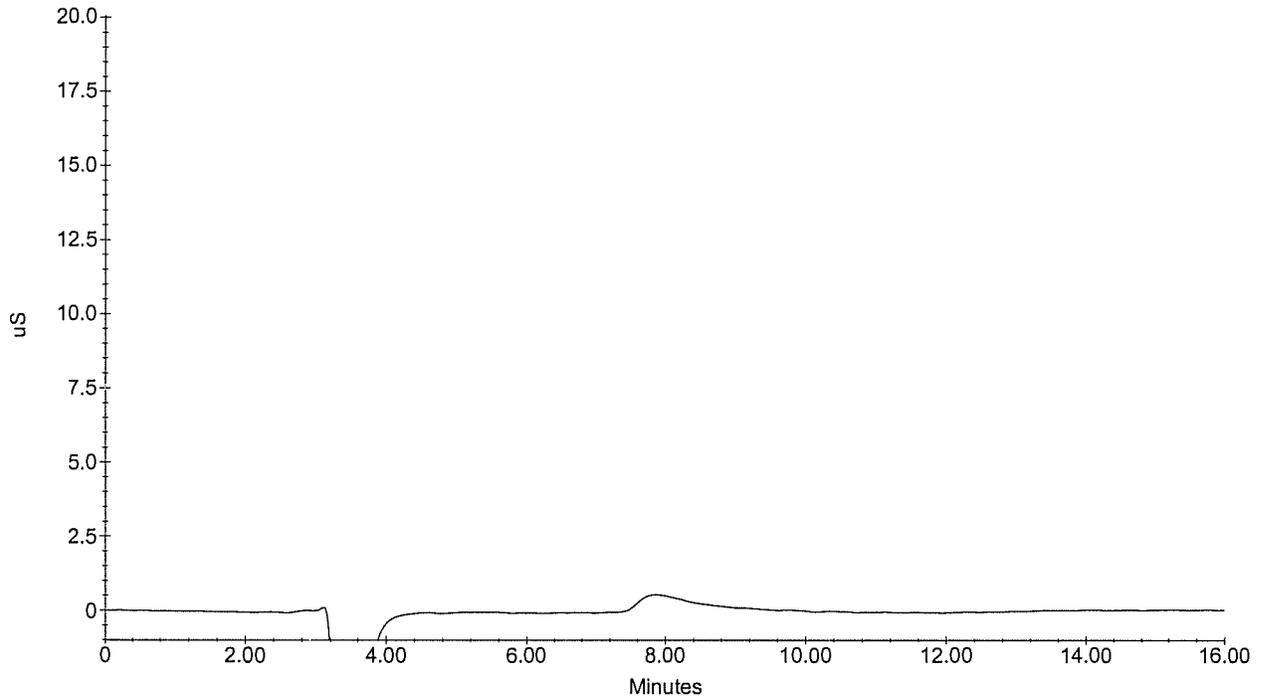


Sample Name : 579640
 Dilution Factor : 1.00
 Injection Number : 35
 Data File Name : ...150821_035.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/22/2015 12:41:37 AM **010082**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta | |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 | 0 | 0.00 | |
| | | | ---total(s)--- | | | | | |
| | | | 0.00 | 0.000 | | | 0 | |

579640

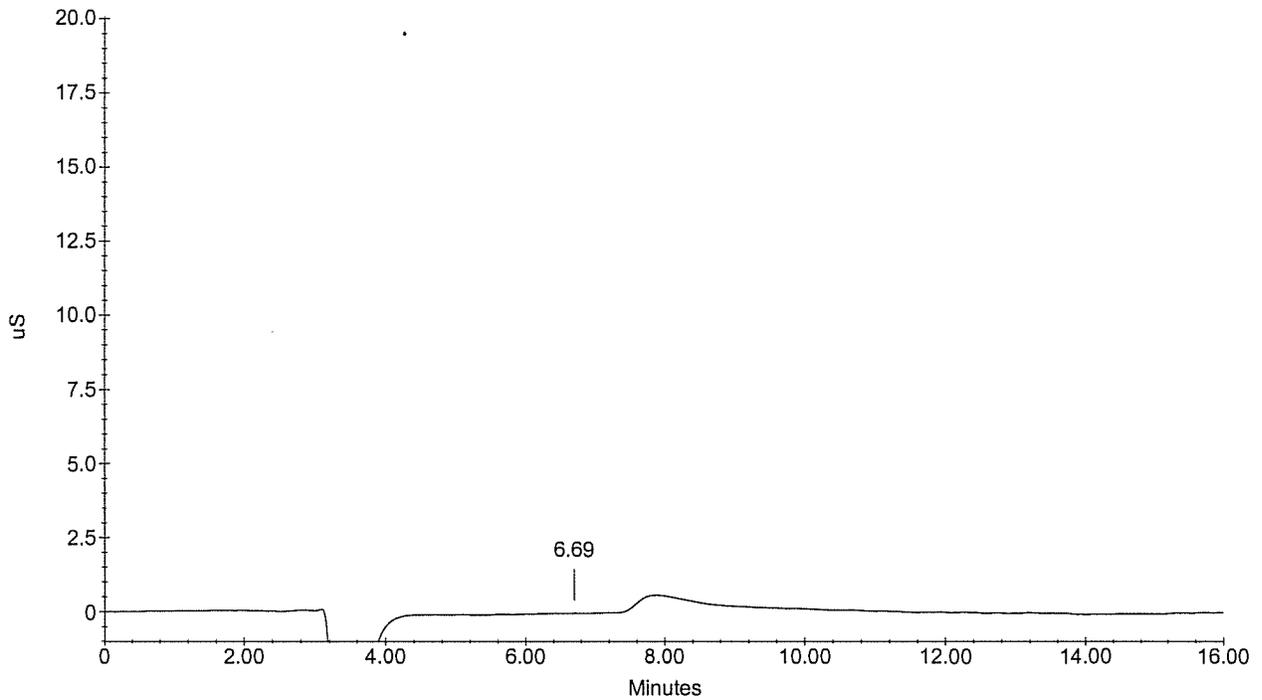


Sample Name : 579621D
Dilution Factor : 1.00
Injection Number : 36
Data File Name : ...150821_036.DXD
Method File Name : ...NICE-AS1_FORMATE_150810.MET
Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/22/2015 1:00:26 AM **010083**
System Name : White Dionex
Detector Name : PED-Cond.
Column Type : AS14# 010-04-080
System Operator :

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 6.69 | | 0.000 | 9907 | 754901 | 1 | | |
| | | | ---total(s)--- | | | | | |
| | | | 0.00 | 0.000 | 754901 | | | |

579621D



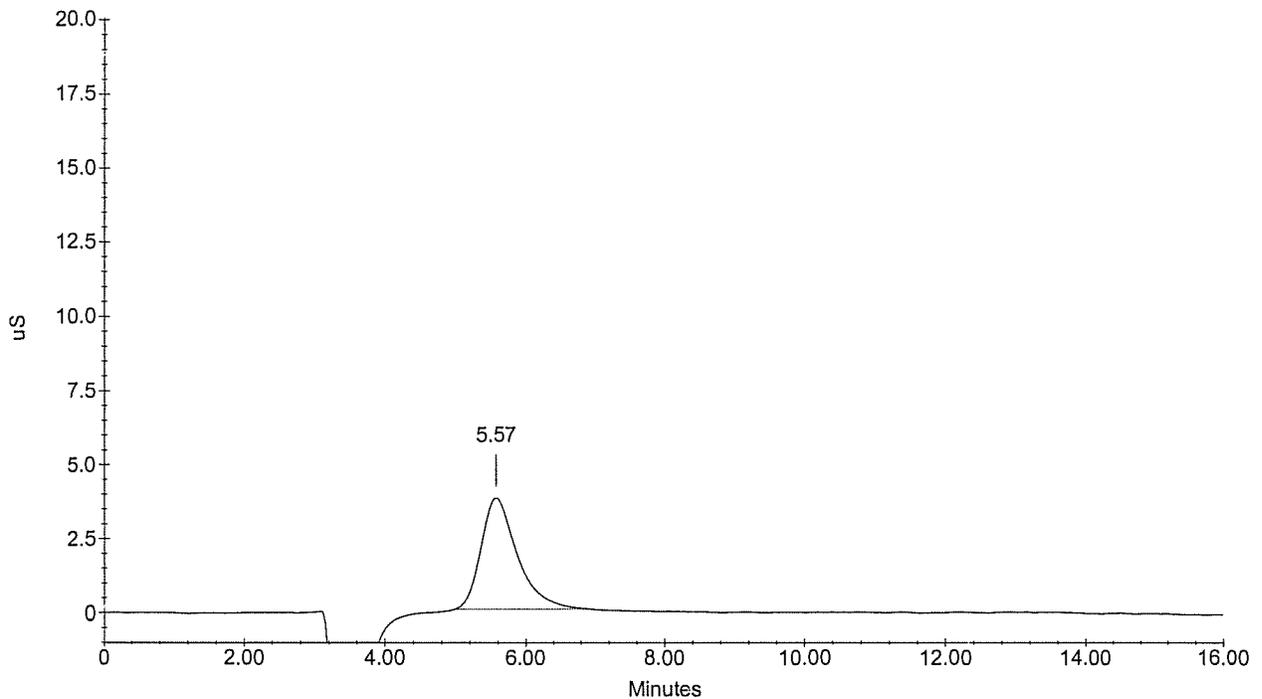
Sample Name : CCV3
 Dilution Factor : 1.00
 Injection Number : 37
 Data File Name : ...\\150821_037.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\21AUG15.sch

Date Time Collected : 8/22/2015 1:19:14 AM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

010084

| Peak Information : All Components | | | | | | | | |
|-----------------------------------|----------|----------------|----------------|-----------|-----------|----------|--------|--|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta | |
| 1 | 5.57 | FORMATE | 9443.550 | 3744773 | 135315590 | 1 | 0.42 | |
| | | | ---total(s)--- | | | | | |
| 0.00 | | | 9443.550 | 135315590 | | | | |

CCV3

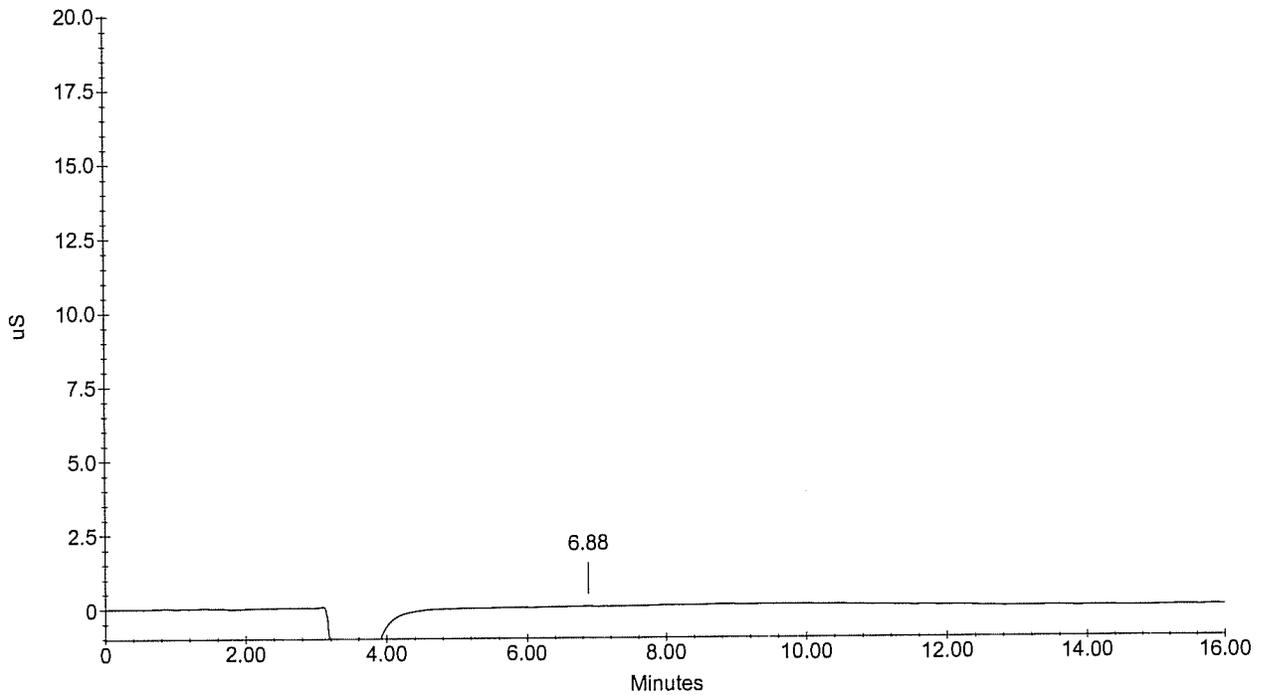


Sample Name : CCB3
 Dilution Factor : 1.00
 Injection Number : 38
 Data File Name : ...150821_038.DXD
 Method File Name : ...ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\21AUG15.sch

Date Time Collected : 8/22/2015 1:38:03 AM **010085**
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|-----------------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code %Delta |
| 1 | 6.88 | | 0.000 | 1103 | 146580 | 1 |
| | | | ---total(s)--- | | | |
| | 0.00 | | 0.000 | | 146580 | |

CCB3



IC 9056A

Southwest Research Institute
San Antonio, Texas 78228

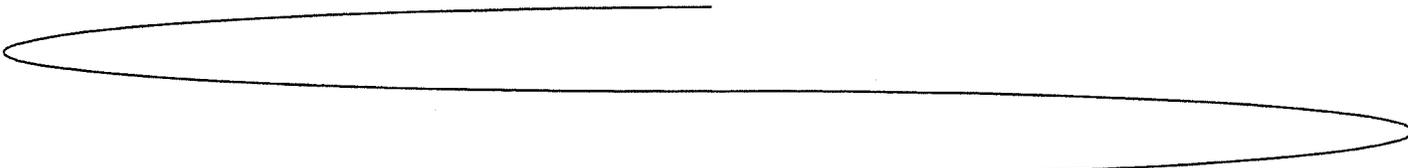
Batch: 20150904-A004 (Ver. 2)
Status: COMPLETED

Limit: IC 9056A
 Analysis Method: IC 9056A (TAP: TAP-01-0406-042)
 Instrument: IC DX500
 Data File Name: 150825.csv
 Analyte Test: IC 9056A
 Start Time: 08/25/2015 16:10:39
 Stop Time: 08/25/2015 23:42:10
 Task Order: 150807-13, 150807-12
 Project: 20933.01.00X
 Customer: CH2M Hill Plateau Remediation Company
 SDG: 579641, 579621
 Qualifier Set: Default

| Sample Identification | Client Identification | Formate/Formic acid | | |
|-----------------------|-----------------------|-----------------------|----------------------|--------------|
| | | Analyte Result (ug/L) | Final Result (mg/Kg) | RL (mg/Kg) |
| ICV ^ | NA | 9210 | 9.41 (mg/L) | 0.102 (mg/L) |
| ICB | NA | 0.00 U | 0.100 U (mg/L) | 0.102 (mg/L) |
| LLC ^^ | NA | 118 | 0.121 (mg/L) | 0.102 (mg/L) |
| PB15J03JH6 + | NA | 0.00 U | 0.852 U | 0.852 |
| LCS15J03JH2 + | NA | 9250 | 946 | 10.2 |
| 579641 ++ | B32D76 | 0.00 U | 0.977 U | 0.977 |
| 579641D ++ | B32D76 | 0.00 U | 1.09 U | 1.09 |
| 579641S ++ | B32D76 | 9330 | 88.1 | 0.944 |
| CCV ^ | NA | 9270 | 9.48 (mg/L) | 0.102 (mg/L) |
| CCB | NA | 0.00 U | 0.100 U (mg/L) | 0.102 (mg/L) |
| 579642 ++ | B32DK9 | 0.00 U | 0.946 U | 0.946 |
| 579643 ++ | B32DL0 | 0.00 U | 1.00 U | 1.00 |
| 579644 ++ | B32F19 | 0.00 U | 0.935 U | 0.935 |
| 579645 ++ | B32F22 | 0.00 U | 0.943 U | 0.943 |
| 579646 ++ | B32F25 | 89.3 U | 1.20 U | 1.20 |
| 579647 ++ | B32F28 | 0.00 U | 0.946 U | 0.946 |
| 579648 ++ | B32F31 | 0.00 U | 1.07 U | 1.07 |
| 579640 +++ | B32D73 | 0.00 U | 0.00931 U | 0.00931 |
| 579621S +++ | B32D16 | 9230 | 85.3 | 0.924 |
| CCV2 ^ | NA | 9180 | 9.38 (mg/L) | 0.102 (mg/L) |
| CCB2 | NA | 0.00 U | 0.100 U (mg/L) | 0.102 (mg/L) |

^ spiked .05 mL of 27-04-WCS11 (ChemInv# UNDEFINED, Source: UNDEFINED, Exp:) at 1000
 ^^ spiked .0005 mL of 27-04-WCS11 (ChemInv# UNDEFINED, Source: UNDEFINED, Exp:) at 1000
 + prepared in batch 20150903-A019
 ++ prepared in batch 20150903-A017
 +++ prepared in batch 20150903-A016

Comments: NA



U - Result is less than the SwRI Reporting Limit (RL)

Prepared by: HERRERA, JUDY

Date: 08/25/2015

Reviewed by: MOKEN, JAMES

Date: 9/4/15

| Line | Sample | Sample Type | Level | Method | Data File | Dilution |
|------|---------------|-------------|-------|---------------------------|----------------|----------|
| 1 | ICV | Sample | | ice-as1_format_150810.met | 150825_001.dxd | 1 |
| 2 | ICB | Sample | | ice-as1_format_150810.met | 150825_002.dxd | 1 |
| 3 | LLC | Sample | | ice-as1_format_150810.met | 150825_003.dxd | 1 |
| 4 | LOD | Sample | | ice-as1_format_150810.met | 150825_004.dxd | 1 |
| 5 | LOQ1 | Sample | | ice-as1_format_150810.met | 150825_005.dxd | 1 |
| 6 | LOQ2 | Sample | | ice-as1_format_150810.met | 150825_006.dxd | 1 |
| 7 | LOQ3 | Sample | | ice-as1_format_150810.met | 150825_007.dxd | 1 |
| 8 | PB 22-00114* | Sample | | ice-as1_format_150810.met | 150825_008.dxd | 1 |
| 9 | LCS 22-00114* | Sample | | ice-as1_format_150810.met | 150825_009.dxd | 1 |
| 10 | 579641 | Sample | | ice-as1_format_150810.met | 150825_010.dxd | 1 |
| 11 | 579641D | Sample | | ice-as1_format_150810.met | 150825_011.dxd | 1 |
| 12 | 579641S | Sample | | ice-as1_format_150810.met | 150825_012.dxd | 1 |
| 13 | CCV | Sample | | ice-as1_format_150810.met | 150825_013.dxd | 1 |
| 14 | CCB | Sample | | ice-as1_format_150810.met | 150825_014.dxd | 1 |
| 15 | 579642 | Sample | | ice-as1_format_150810.met | 150825_015.dxd | 1 |
| 16 | 579643 | Sample | | ice-as1_format_150810.met | 150825_016.dxd | 1 |
| 17 | 579644 | Sample | | ice-as1_format_150810.met | 150825_017.dxd | 1 |
| 18 | 579645 | Sample | | ice-as1_format_150810.met | 150825_018.dxd | 1 |
| 19 | 579646 | Sample | | ice-as1_format_150810.met | 150825_019.dxd | 1 |
| 20 | 579647 | Sample | | ice-as1_format_150810.met | 150825_020.dxd | 1 |
| 21 | 579648 | Sample | | ice-as1_format_150810.met | 150825_021.dxd | 1 |
| 22 | 579640 | Sample | | ice-as1_format_150810.met | 150825_022.dxd | 1 |
| 23 | 579621S | Sample | | ice-as1_format_150810.met | 150825_023.dxd | 1 |
| 24 | CCV2 | Sample | | ice-as1_format_150810.met | 150825_024.dxd | 1 |
| 25 | CCB2 | Sample | | ice-as1_format_150810.met | 150825_025.dxd | 1 |
| 26 | STOP | Sample | | astop.met | 150825 | 1 |

Default Method Path: C:\PEAKNET\METHOD.ACI
 Default Data Path: C:\PEAKNET\DATA\150825
 Comment:
 CH2M Hill Plateau Remediation Company, 20033-01-006, TO# 150807-12

NO 8/28/15 gcu
 20859.01.006

* 08/28/15 gcu

"M" INDICATES MANUAL INTEGRATION

ICV:
 27-04-10-10 WASH TE 9/9/15 gcu
 T.V. = 10 ppm

(*) sample should read
 579 --- 08/28/15 gcu

LLC:
 27-04-10-10 WASH TE 9/9/15 gcu
 T.V. = 0.100 ppm

EP:
 5000-3
 1000-1
 200-H

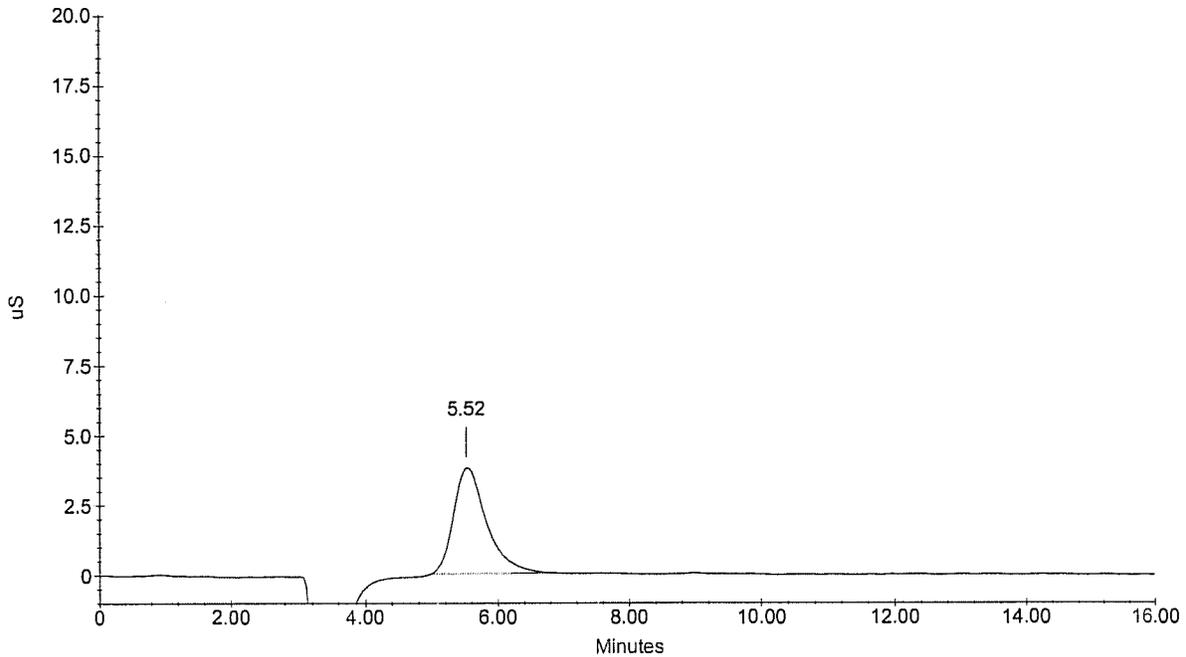
Judy H. Mercer
 8/26/15

Sample Name : ICV
 Dilution Factor : 1.00
 Injection Number : 1
 Data File Name : ...\\150825_001.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\25AUG15.sch

Date Time Collected : 8/25/2015 4:10:39 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|-----------|-----------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 1 | 5.52 | FORMATE | 9206.919 | 3764761 | 131900033 | 1 | -0.54 |
| | | | ---total(s)--- | | | | |
| 0.00 | | | 9206.919 | 131900033 | | | |

ICV

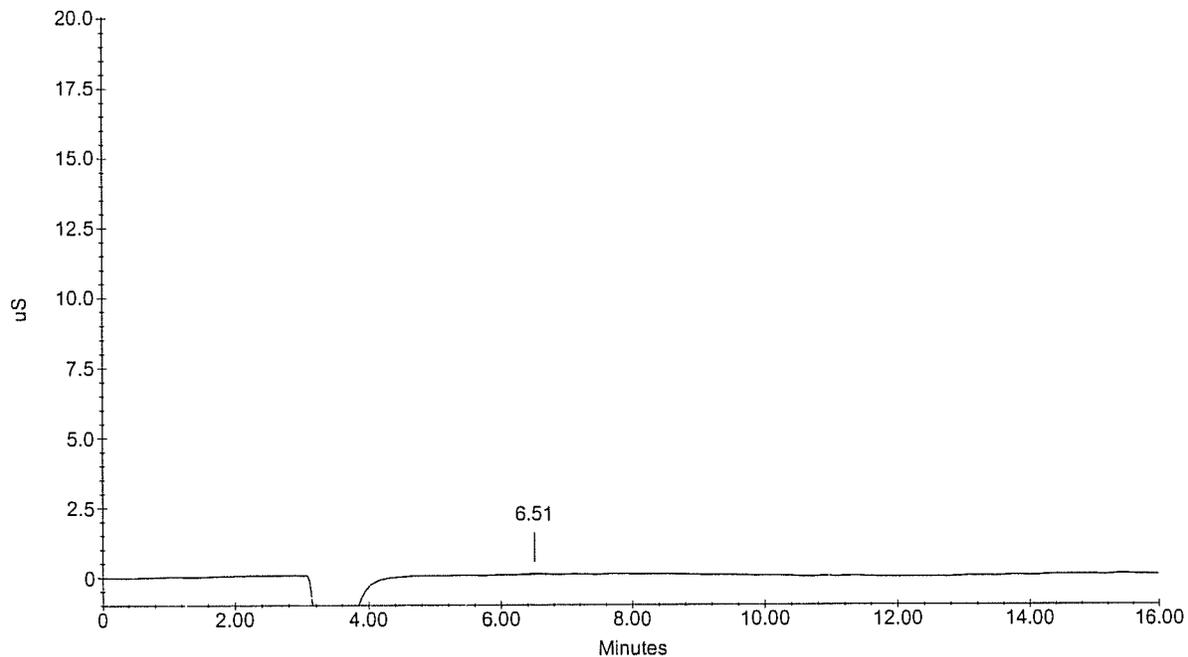


Sample Name : ICB
 Dilution Factor : 1.00
 Injection Number : 2
 Data File Name : ...150825_002.DXD
 Method File Name : ...ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 4:29:27 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 1 | 6.51 | | 0.000 | 37540 | 822167 | 1 | |
| | | | ---total(s)--- | | | | |
| 0.00 | | | 0.000 | | 822167 | | |

ICB

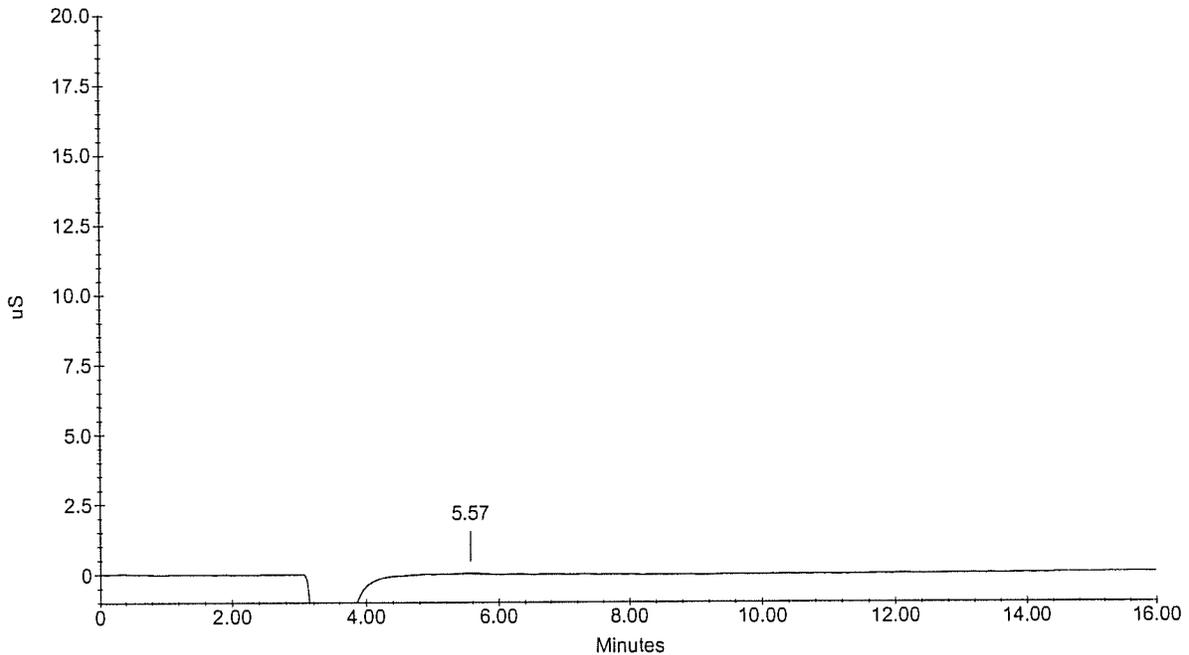


Sample Name : LLC
 Dilution Factor : 1.00
 Injection Number : 3
 Data File Name : ...\\150825_003.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\25AUG15.sch

Date Time Collected : 8/25/2015 4:48:16 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 1 | 5.57 | FORMATE | 117.774 | 38007 | 858349 | 1 | 0.42 |
| | | | ---total(s)--- | | | | |
| 0.00 | | | 117.774 | | 858349 | | |

LLC

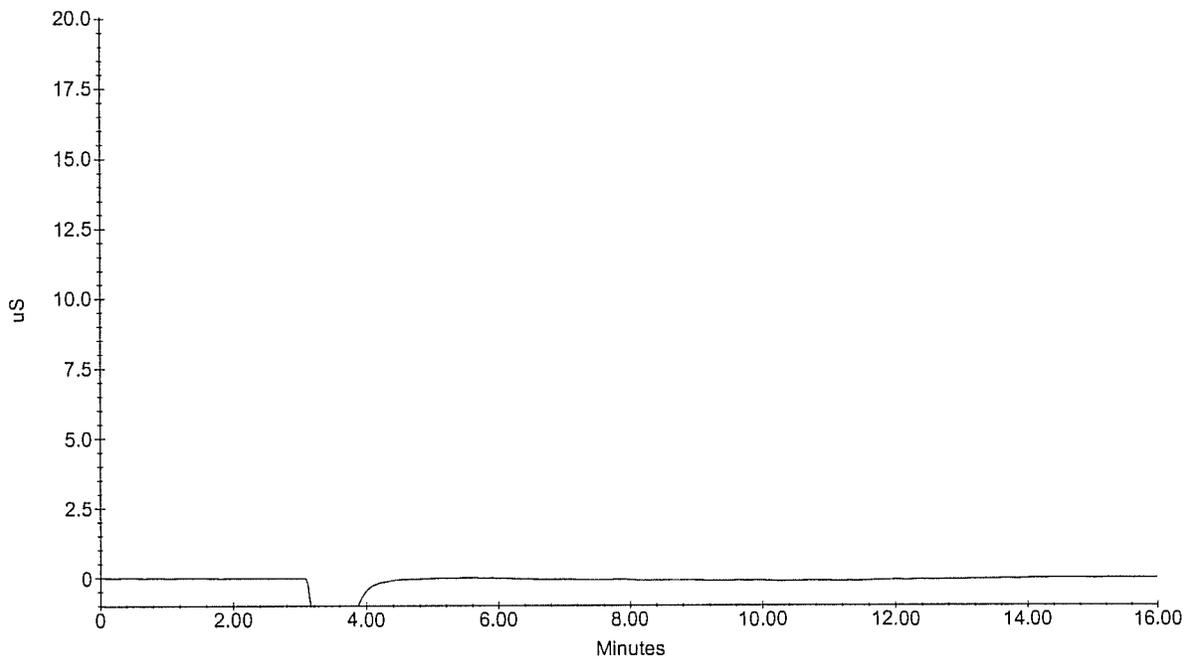


Sample Name : LOD
 Dilution Factor : 1.00
 Injection Number : 4
 Data File Name : ...150825_004.DXD
 Method File Name : ...ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 5:07:05 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 |
| | | | ---total(s)--- | | | | |
| | | | 0.000 | | | 0 | |

LOD

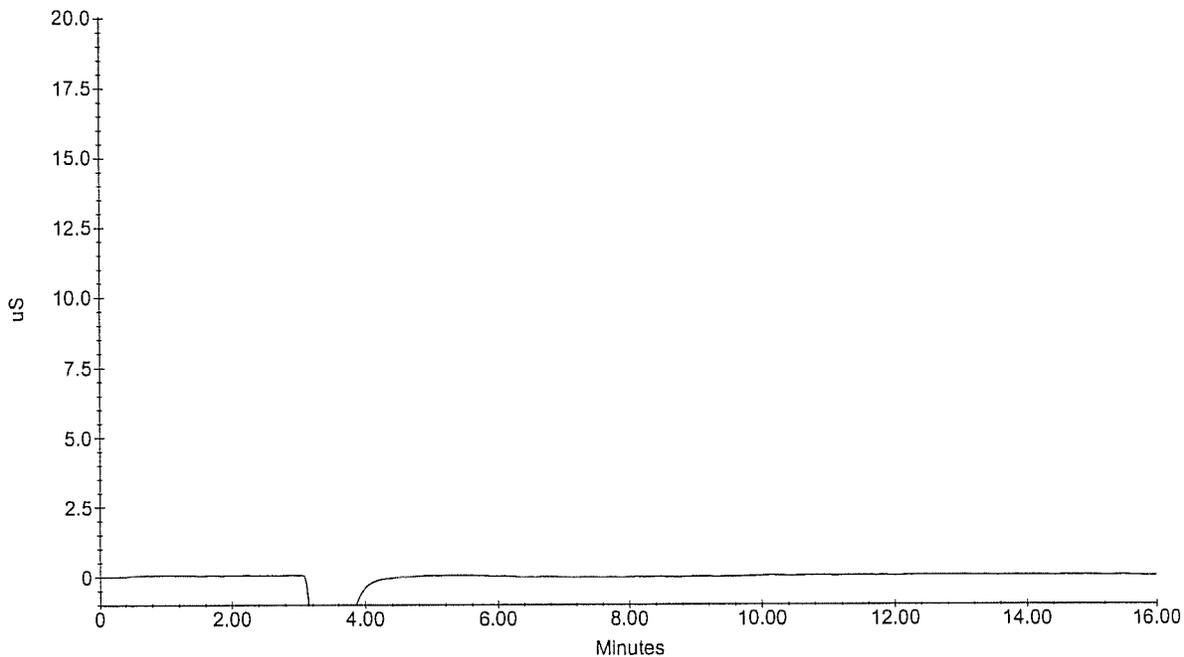


Sample Name : LOQ1
 Dilution Factor : 1.00
 Injection Number : 5
 Data File Name : ...150825_005.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 5:25:54 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 |
| | | | ---total(s)--- | | | | |
| 0.00 | | | 0.000 | | | 0 | |

LOQ1

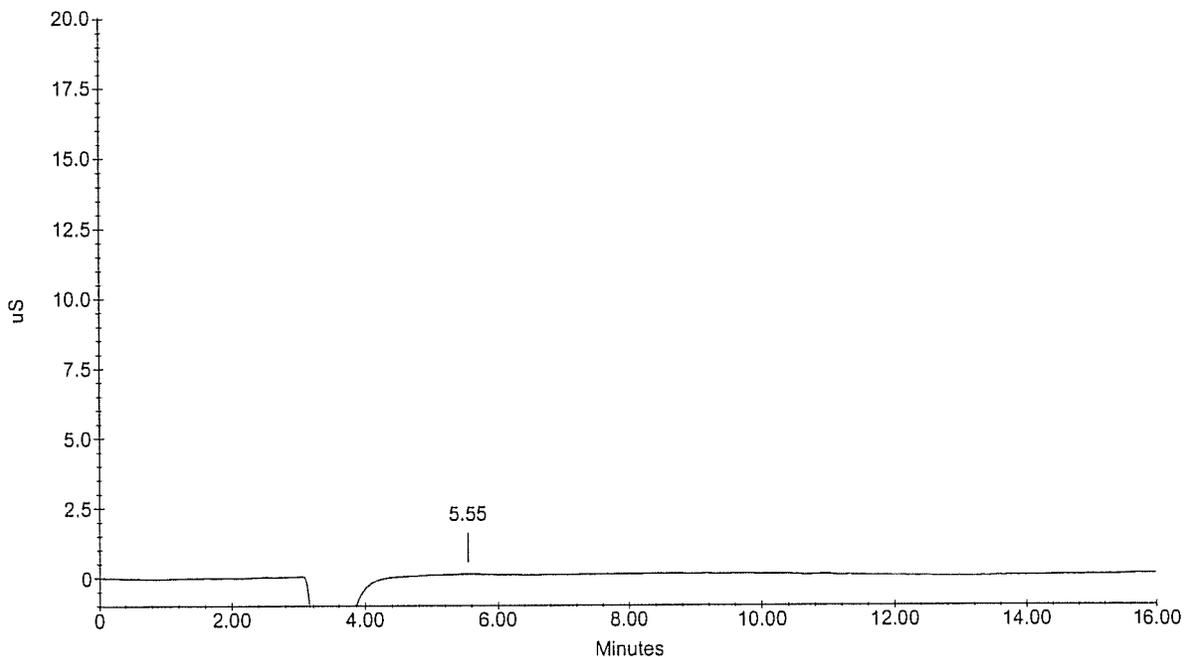


Sample Name : LOQ2
 Dilution Factor : 1.00
 Injection Number : 6
 Data File Name : ...\\150825_006.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\25AUG15.sch

Date Time Collected : 8/25/2015 5:44:43 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta |
| 1 | 5.55 | FORMATE | 124.845 | 40898 | 960178 | 1 | -0.06 |
| | | | ---total(s)--- | | | | |
| 0.00 | | | 124.845 | | 960178 | | |

LOQ2

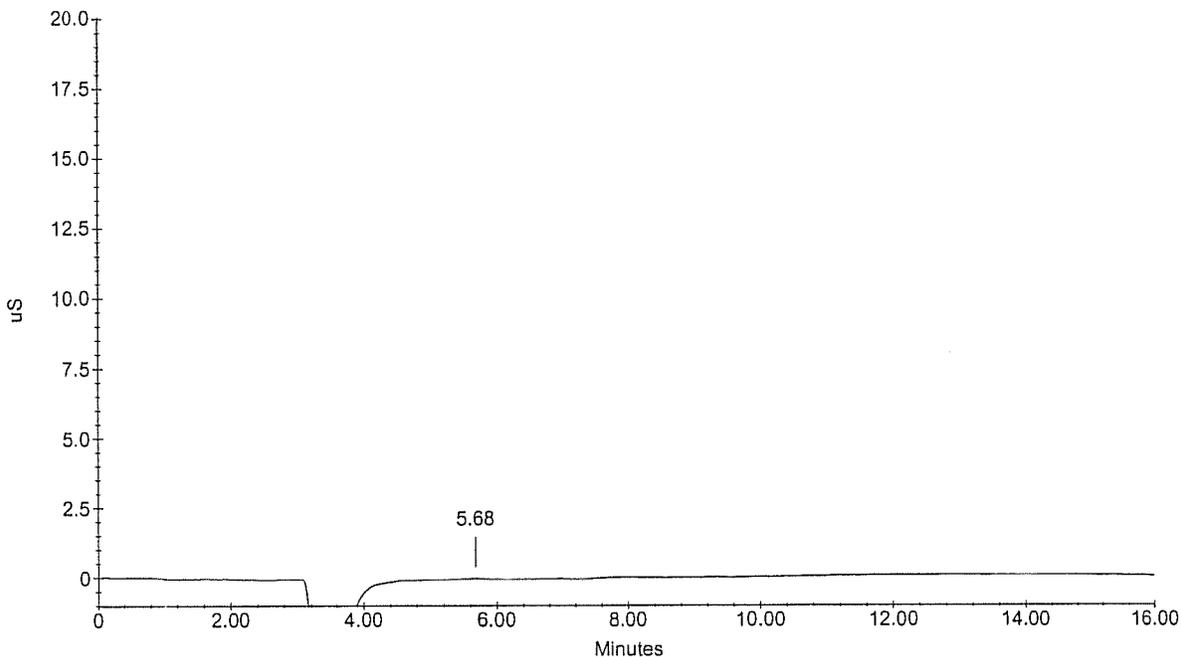


Sample Name : LOQ3
 Dilution Factor : 1.00
 Injection Number : 7
 Data File Name : ...\\150825_007.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 6:03:31 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|---------|---------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 1 | 5.68 | FORMATE | 132.456 | 38883 | 1069784 | 1 | 2.34 |
| | | | ---total(s)--- | | | | |
| 0.00 | | | 132.456 | 1069784 | | | |

LOQ3

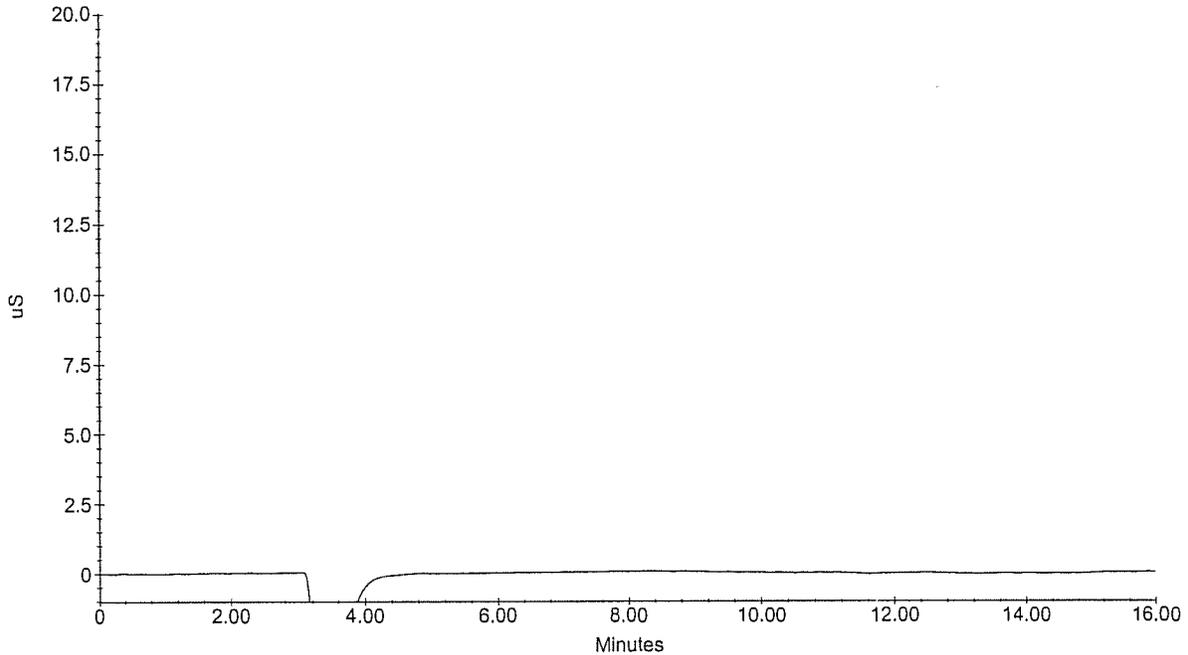


Sample Name : PB
 Dilution Factor : 1.00
 Injection Number : 8
 Data File Name : ...\\150825_008.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 6:22:20 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 |
| | | | ---total(s)--- | | | | |
| | | | 0.000 | | | 0 | |

PB 22-00114*



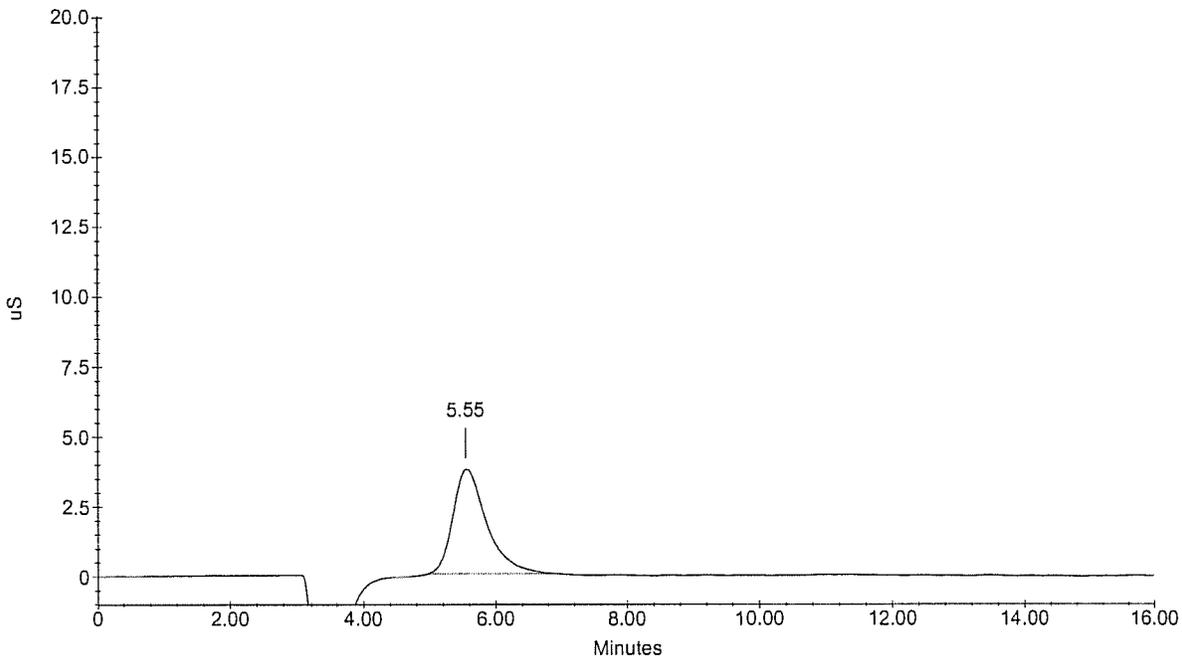
* Cl 08/28/15 gcu

Sample Name : LCS
 Dilution Factor : 1.00
 Injection Number : 9
 Data File Name : ...150825_009.DXD
 Method File Name : ...ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 6:41:09 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|-----------|-----------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 1 | 5.55 | FORMATE | 9247.112 | 3713146 | 132480166 | 1 | -0.06 |
| | | | ---total(s)--- | | | | |
| 0.00 | | | 9247.112 | 132480166 | | | |

LCS 22-00114*



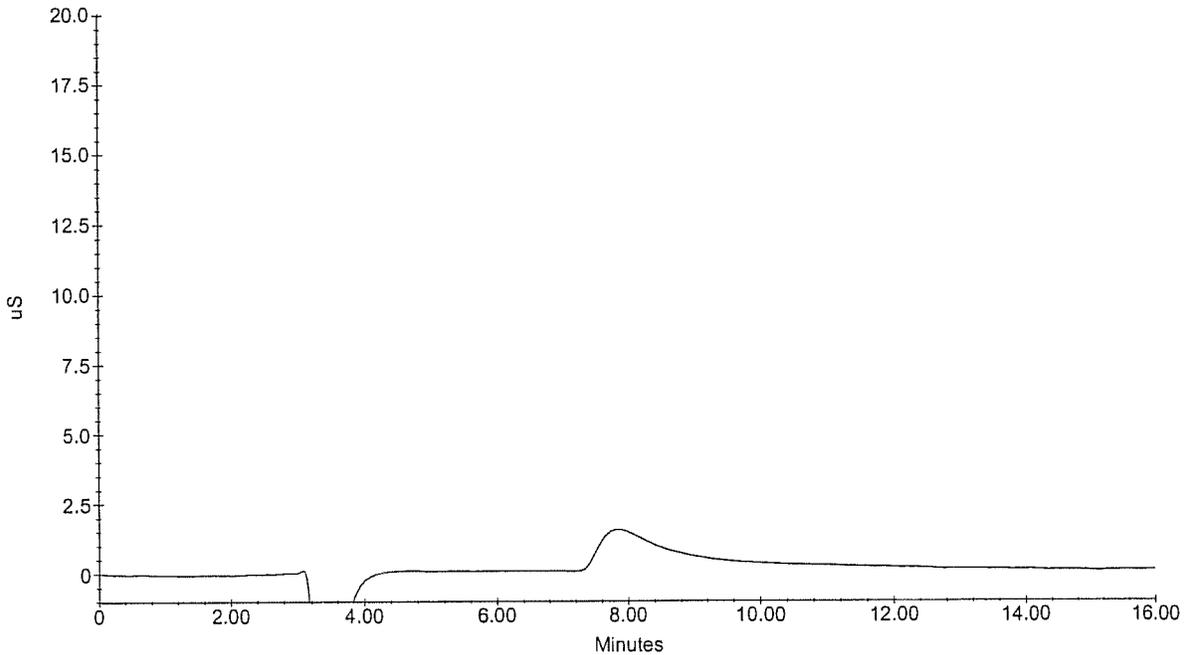
* 22 08/28/15 gcm

Sample Name : 579641
 Dilution Factor : 1.00
 Injection Number : 10
 Data File Name : ...\\150825_010.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 6:59:58 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 | 0 | 0.00 |
| | | | ---total(s)--- | | | | |
| | | | 0.00 | 0.000 | | | 0 |

579641

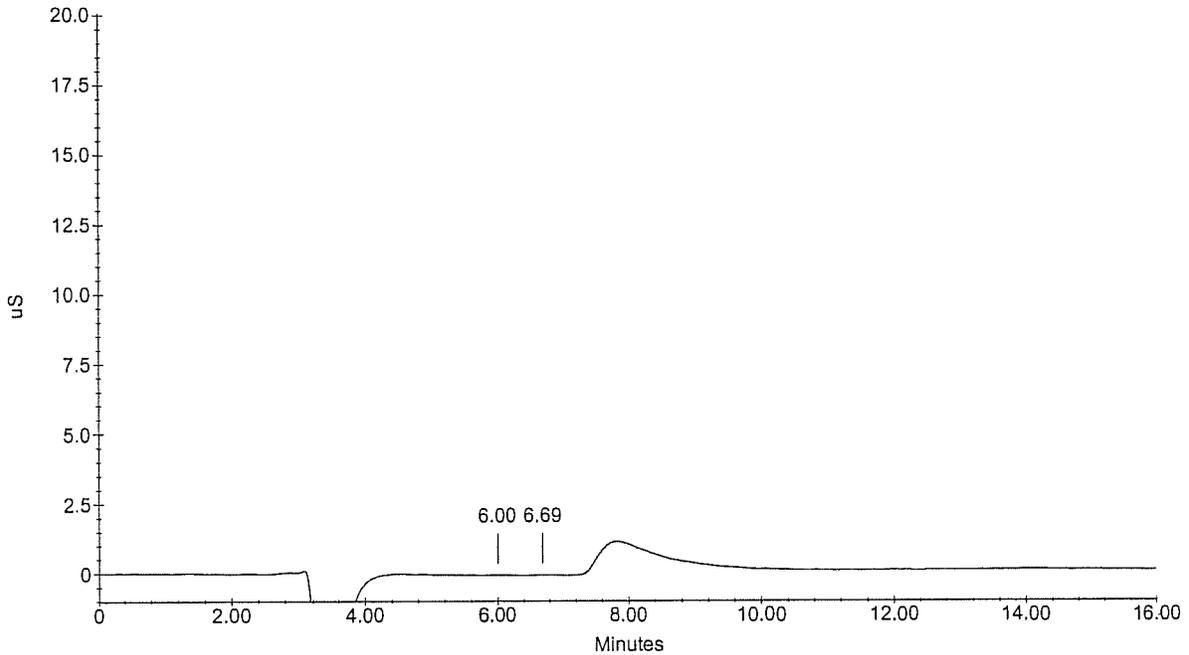


Sample Name : 579641D
 Dilution Factor : 1.00
 Injection Number : 11
 Data File Name : ...\\150825_011.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\25AUG15.sch

Date Time Collected : 8/25/2015 7:18:47 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta |
| 1 | 6.00 | | 0.000 | 26707 | 609809 | 1 | |
| | | | ---total(s)--- | 0.000 | 609809 | | |

579641D

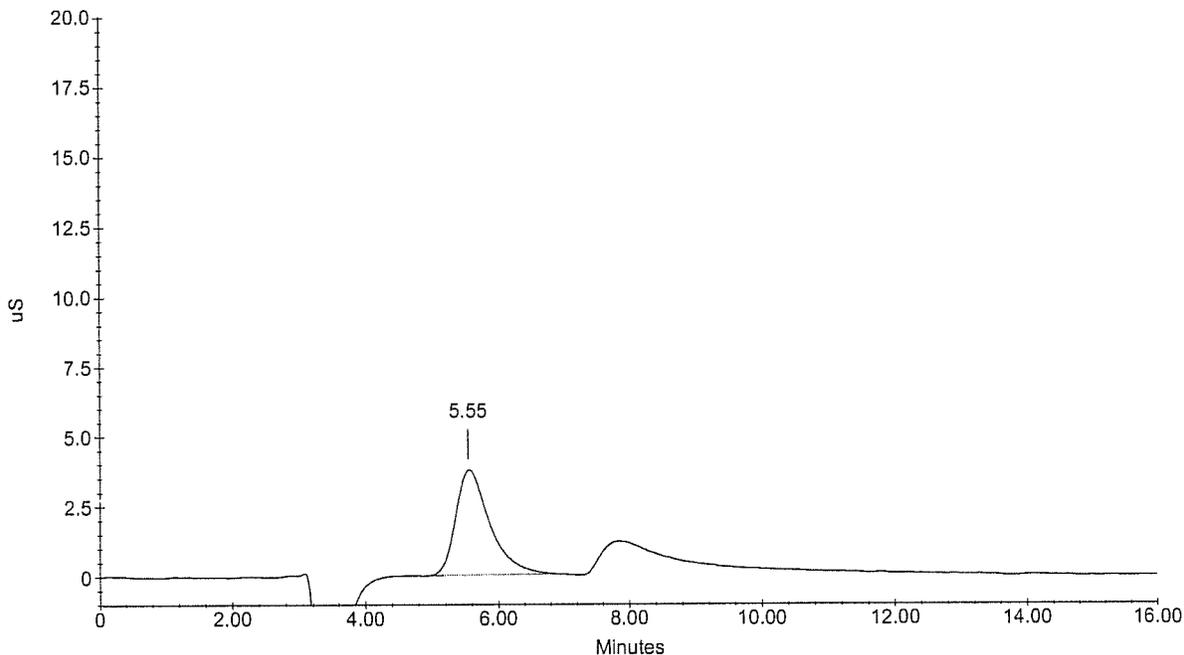


Sample Name : 579641S
 Dilution Factor : 1.00
 Injection Number : 12
 Data File Name : ...150825_012.DXD
 Method File Name : ...ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 7:37:36 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|---------|-----------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 1 | 5.55 | FORMATE | 9325.048 | 3722408 | 133605095 | 1 | -0.06 |
| | | | ---total(s)--- | | | | |
| 0.00 | | | 9325.048 | | 133605095 | | |

579641S

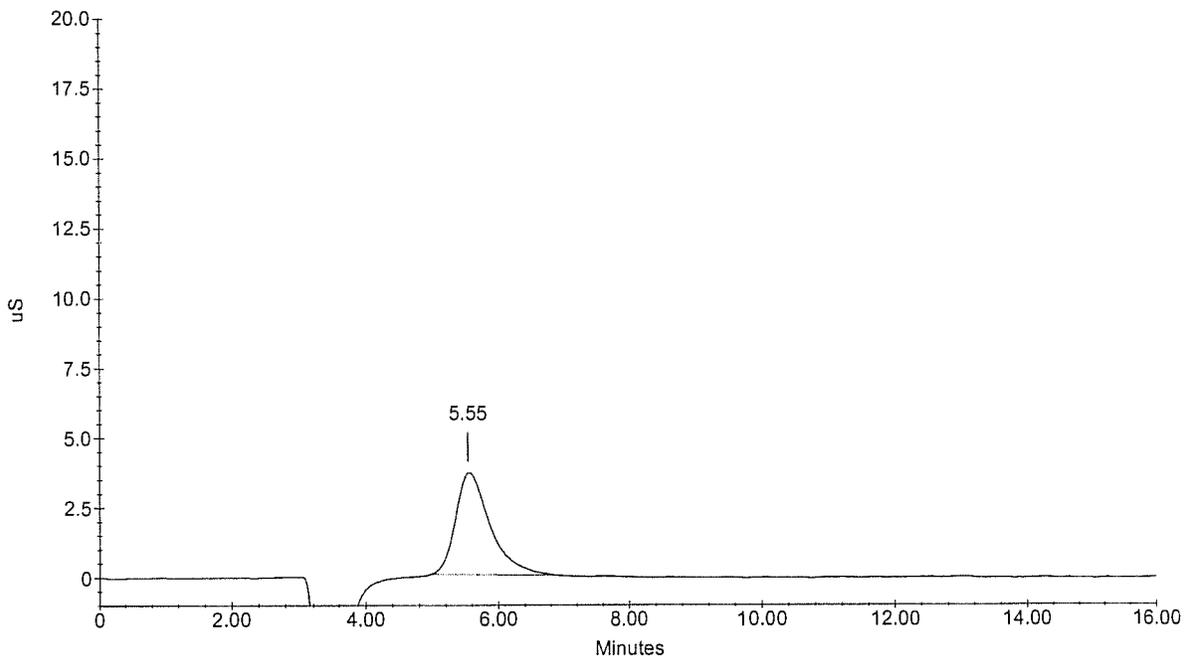


Sample Name : CCV
 Dilution Factor : 1.00
 Injection Number : 13
 Data File Name : ...\\150825_013.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\25AUG15.sch

Date Time Collected : 8/25/2015 7:56:24 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|-----------|-----------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 1 | 5.55 | FORMATE | 9265.673 | 3619177 | 132748069 | 1 | -0.06 |
| | | | ---total(s)--- | | | | |
| 0.00 | | | 9265.673 | 132748069 | | | |

CCV

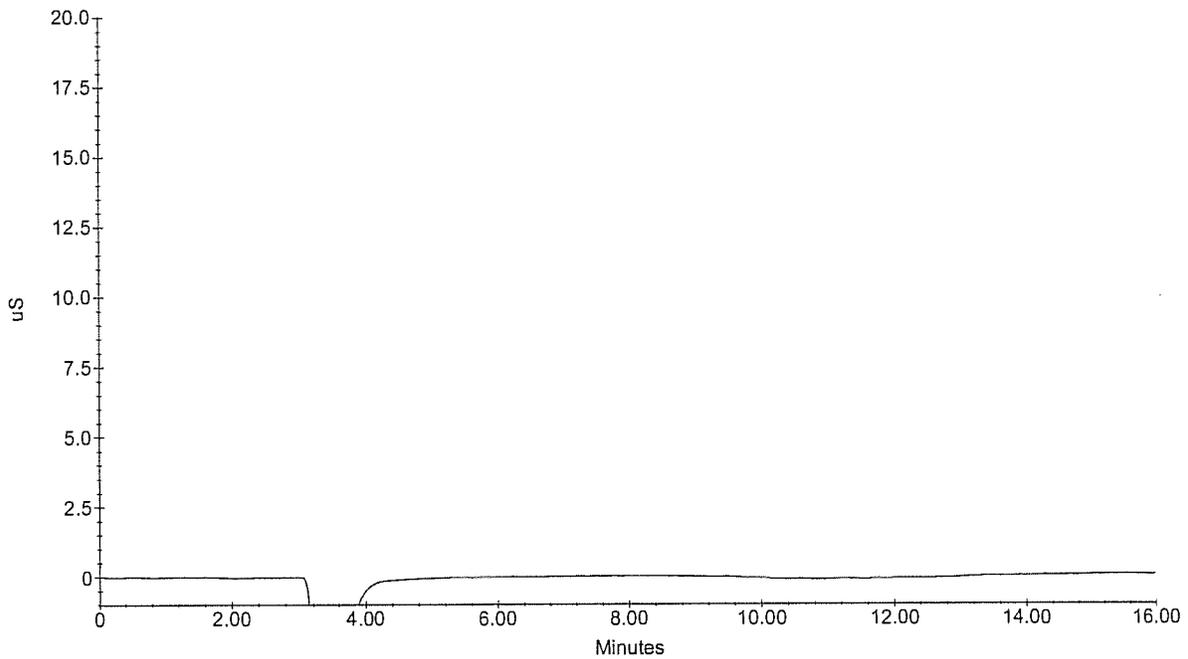


Sample Name : CCB
 Dilution Factor : 1.00
 Injection Number : 14
 Data File Name : ...\\150825_014.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 8:15:13 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 |
| | | | ---total(s)--- | | | | |
| | | | 0.000 | | | 0 | |

CCB

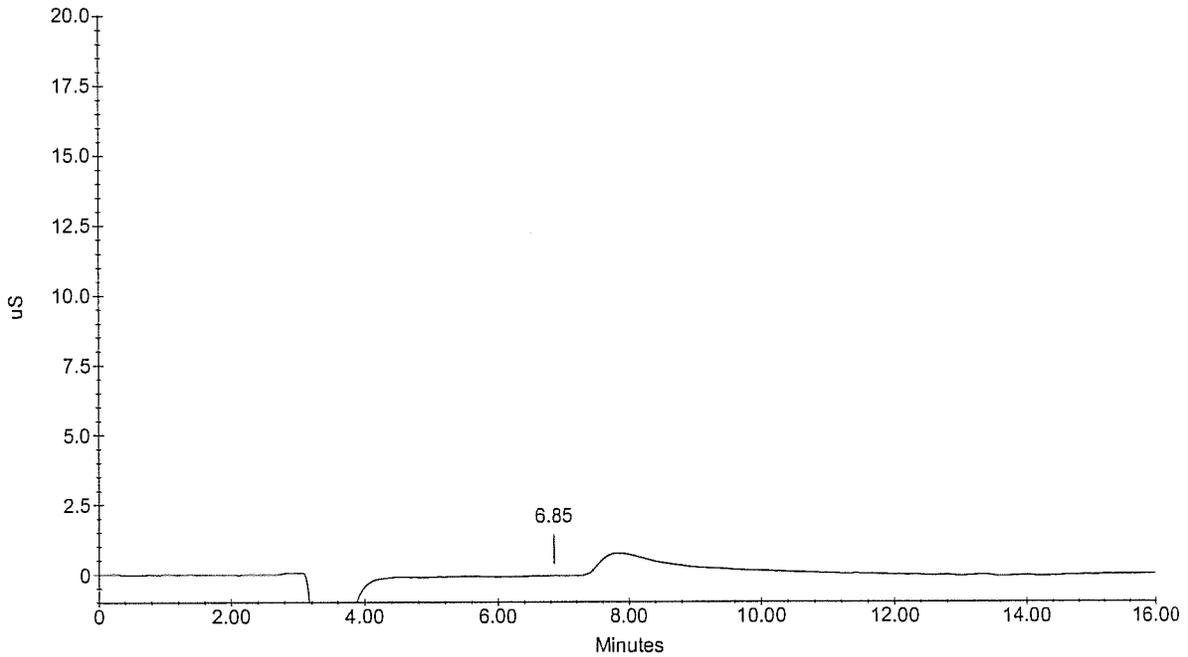


Sample Name : 576642
 Dilution Factor : 1.00
 Injection Number : 15
 Data File Name : ...150825_015.DXD
 Method File Name : ...NICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 8:34:02 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | |
|-----------------------------------|----------|----------------|-------------|--------|--------|----------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code |
| 1 | 6.85 | | 0.000 | 5310 | 315028 | 1 |
| | 0.00 | | ---0.000 | | 315028 | |

9
 576642
 TE01201187CU

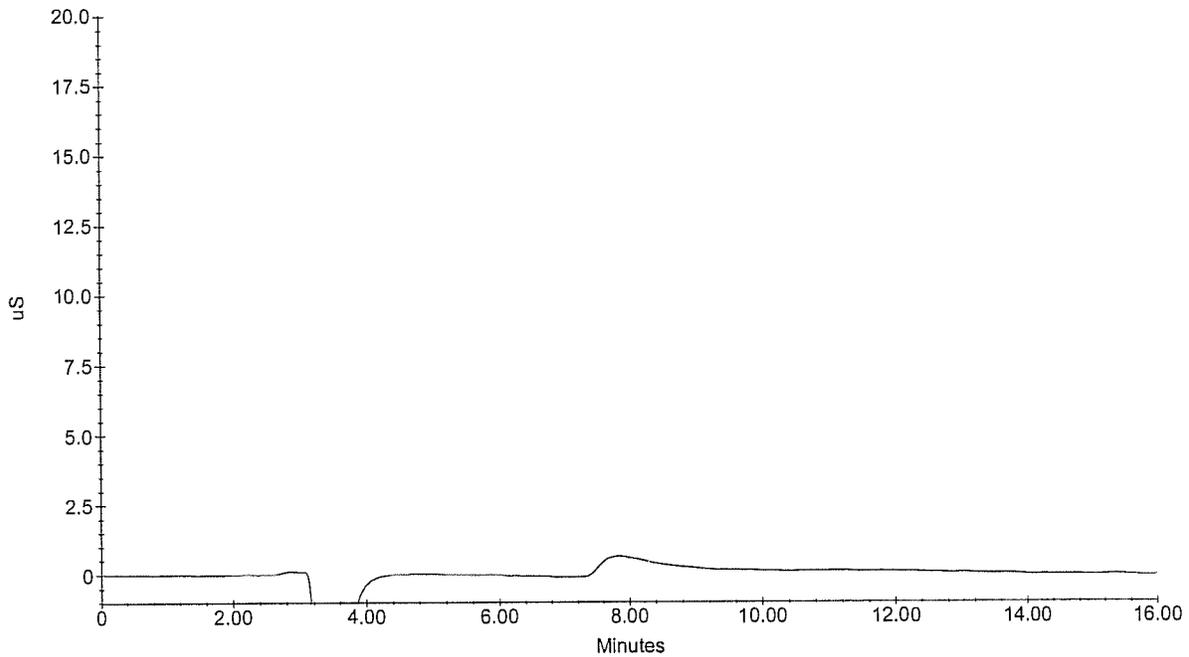


Sample Name : 576643
 Dilution Factor : 1.00
 Injection Number : 16
 Data File Name : ...\\150825_016.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 8:52:51 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 |
| | | | ---total(s)--- | 0.000 | | 0 | |

9 TE 8/28/15 gley
576643

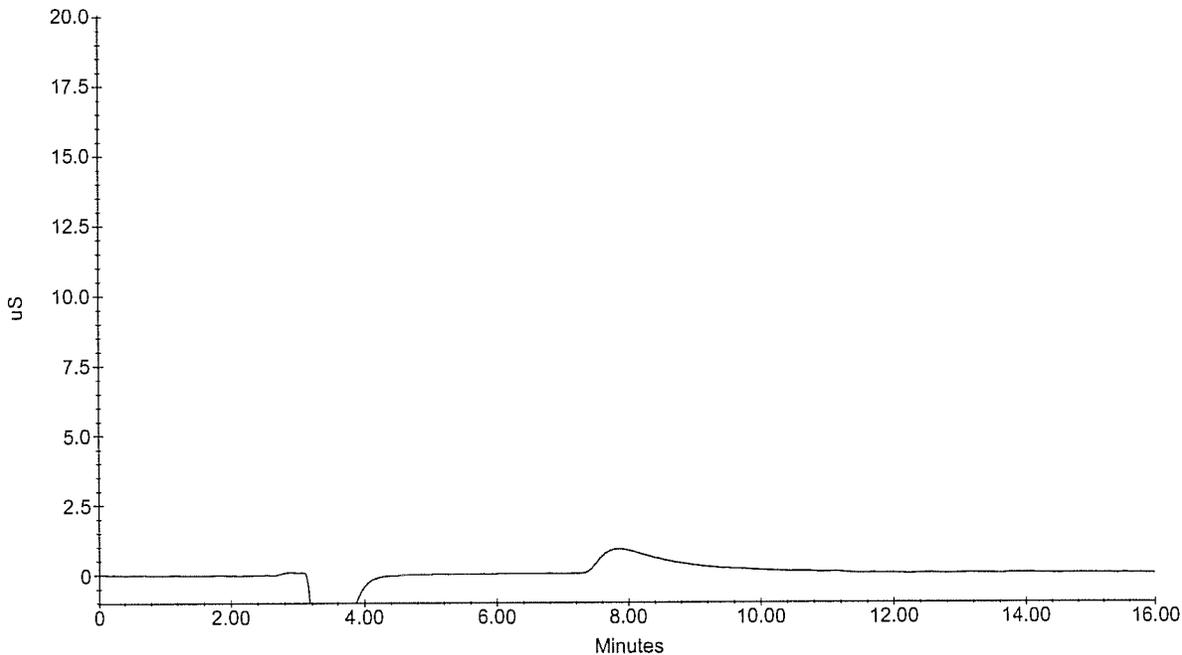


Sample Name : 576644
 Dilution Factor : 1.00
 Injection Number : 17
 Data File Name : ...150825_017.DXD
 Method File Name : ...ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 9:11:40 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 |
| | | | ---total(s)--- | | | | |
| | | | 0.000 | | | 0 | |

9
 TE 8/28/15 gcu
 576644

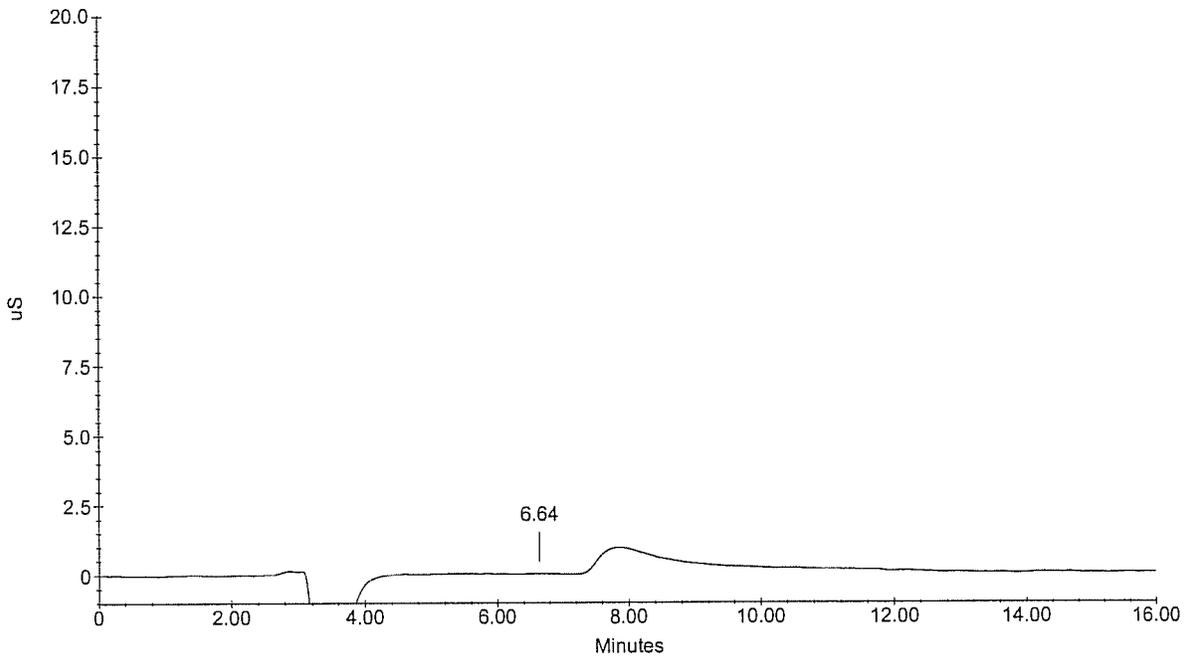


Sample Name : 576645
 Dilution Factor : 1.00
 Injection Number : 18
 Data File Name : ...150825_018.DXD
 Method File Name : ...ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 9:30:28 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | |
|-----------------------------------|----------|----------------|-------------|--------|--------|----------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code |
| 1 | 6.64 | | 0.000 | 16134 | 289645 | 1 |
| | 0.00 | | 0.000 | | 289645 | |

9
 576645
 TE 8/28/15 JCU



Sample Name : 576646
 Dilution Factor : 1.00
 Injection Number : 19
 Data File Name : ...\\150825_019.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\\PeakNet\\schedule\\25AUG15.sch

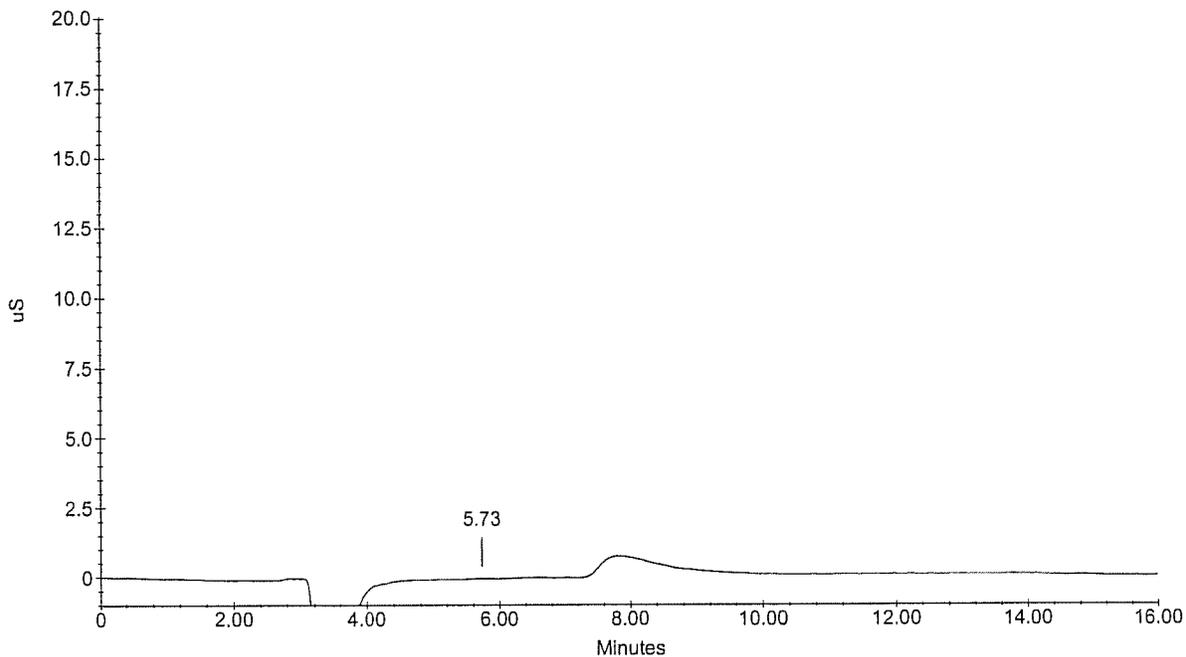
Date Time Collected : 8/25/2015 9:49:17 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|-------------|--------|--------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 1 | 5.73 | FORMATE | 89.280 | 25442 | 447996 | 1 | 3.30 |

| | | | |
|------|----------------|--------|--------|
| 0.00 | ---total(s)--- | 89.280 | 447996 |
|------|----------------|--------|--------|

9 TE 8/28/15 gcl

576646



Sample Name : 576647

Dilution Factor : 1.00

Injection Number : 20

Data File Name : ...150825_020.DXD

Method File Name : ...ICE-AS1_FORMATE_150810.MET

Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 10:08:06 PM

System Name : White Dionex

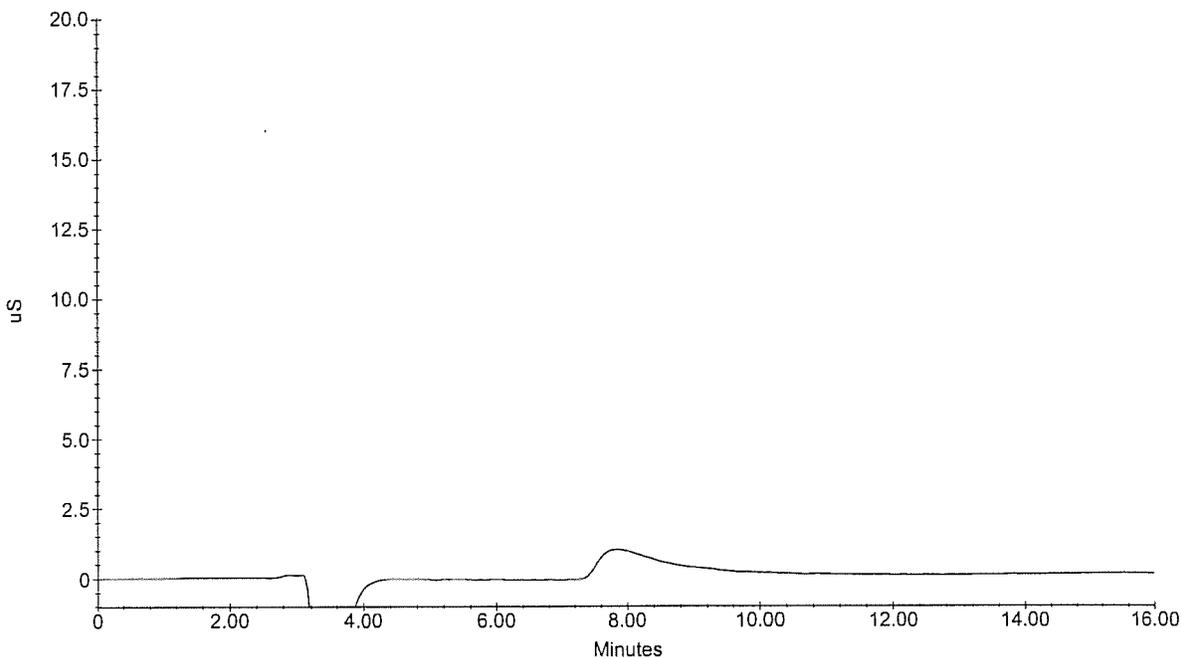
Detector Name : PED-Cond.

Column Type : AS14# 010-04-080

System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 | 0 | 0.00 |
| | | | ---total(s)--- | 0.000 | | | |
| | | | 0.00 | | | | |

9 TE 8/28/15 gcu
576647

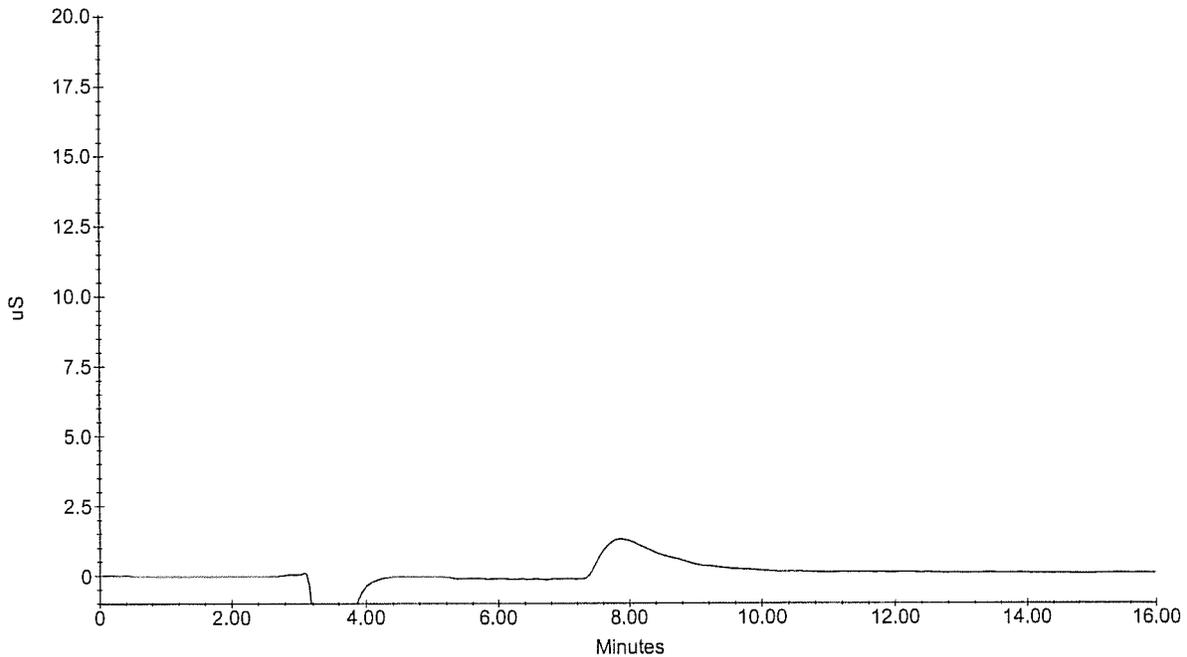


Sample Name : 576648
 Dilution Factor : 1.00
 Injection Number : 21
 Data File Name : ...\\150825_021.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 10:26:55 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|----------------|------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 0 | 0.00 | (null) | 0.000 | 0 | 0 0 | | 0.00 |
| | | | ---total(s)--- | 0.000 | | | |
| | | | 9 | TE 8/28/15 gcu | | | |

576648

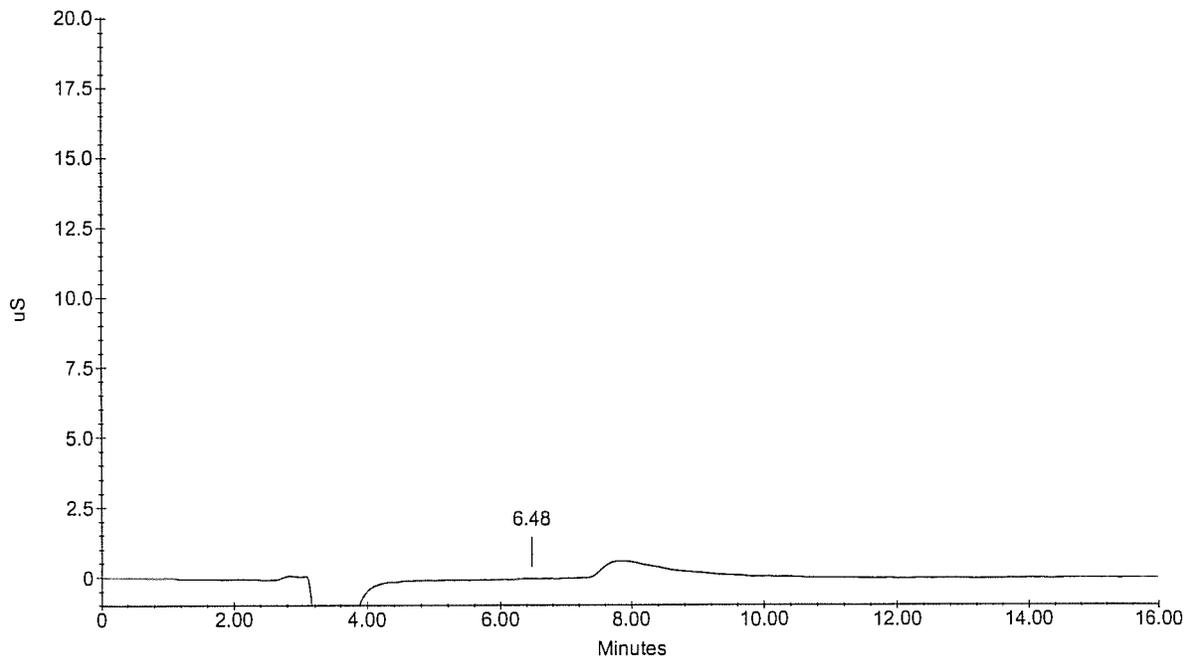


Sample Name : 579640
 Dilution Factor : 1.00
 Injection Number : 22
 Data File Name : ...150825_022.DXD
 Method File Name : ...ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 10:45:44 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 1 | 6.48 | | 0.000 | 20753 | 512718 | 1 | |
| | | | ---total(s)--- | | | | |
| | 0.00 | | 0.000 | | 512718 | | |

579640

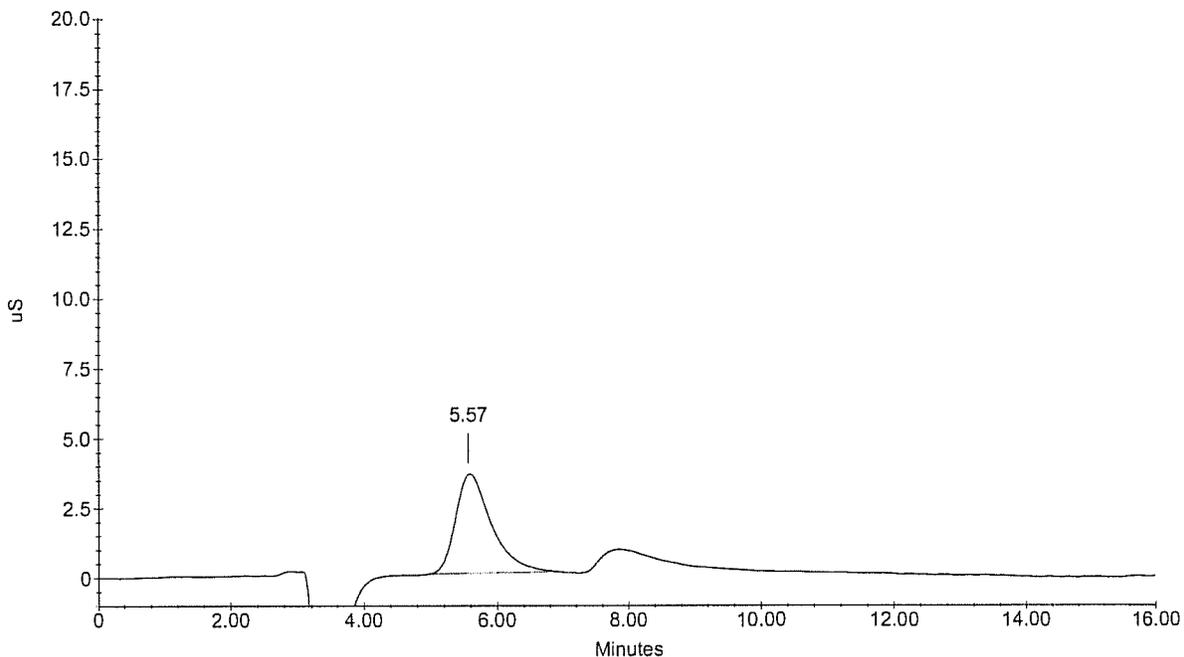


Sample Name : 579621S
 Dilution Factor : 1.00
 Injection Number : 23
 Data File Name : ...150825_023.DXD
 Method File Name : ...ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 11:04:32 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|-----------|-----------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 1 | 5.57 | FORMATE | 9228.163 | 3532202 | 132206666 | 1 | 0.42 |
| | | | ---total(s)--- | | | | |
| 0.00 | | | 9228.163 | 132206666 | | | |

579621S



Sample Name : CCV2

Dilution Factor : 1.00

Injection Number : 24

Data File Name : ...150825_024.DXD

Method File Name : ...ICE-AS1_FORMATE_150810.MET

Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 11:23:21 PM

System Name : White Dionex

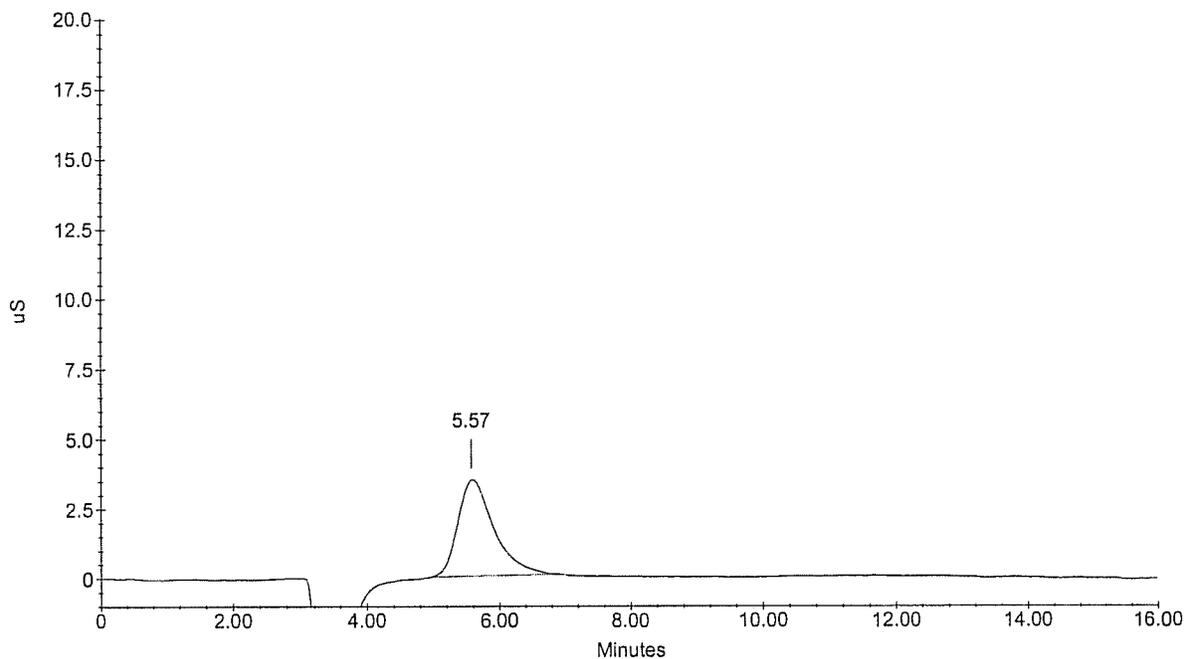
Detector Name : PED-Cond.

Column Type : AS14# 010-04-080

System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|-----------|-----------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | Bl. Code | %Delta |
| 1 | 5.57 | FORMATE | 9178.375 | 3442629 | 131488045 | 1 | 0.42 |
| | | | ---total(s)--- | | | | |
| 0.00 | | | 9178.375 | 131488045 | | | |

CCV2

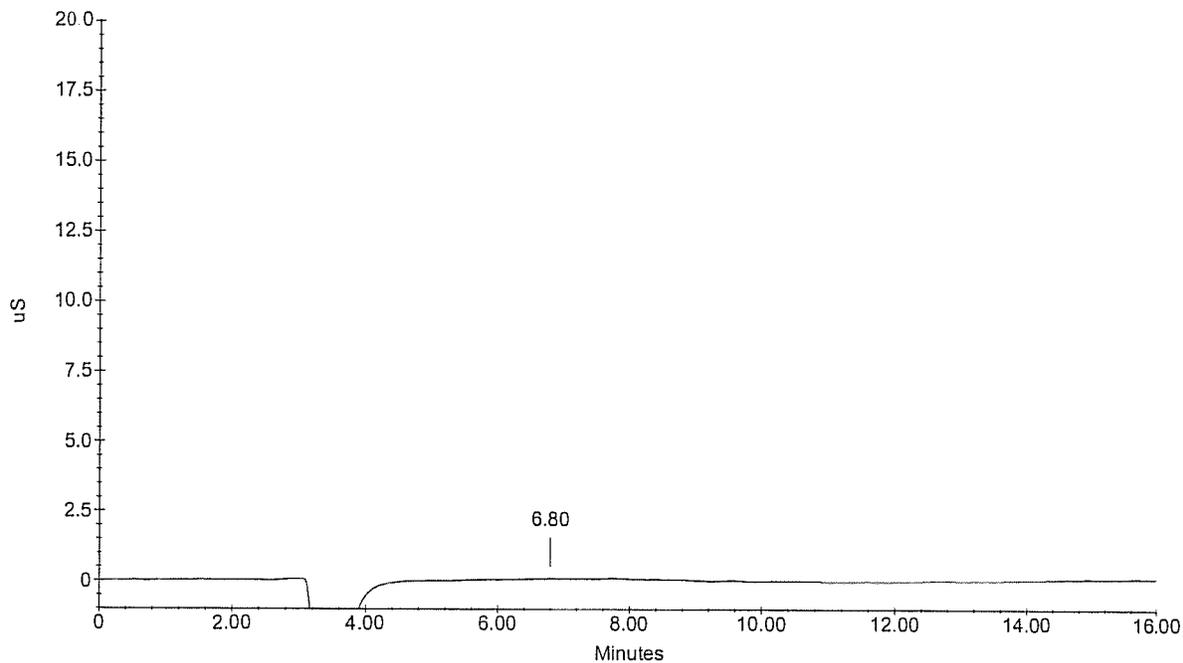


Sample Name : CCB2
 Dilution Factor : 1.00
 Injection Number : 25
 Data File Name : ...\\150825_025.DXD
 Method File Name : ...\\ICE-AS1_FORMATE_150810.MET
 Schedule File Name : C:\PeakNet\schedule\25AUG15.sch

Date Time Collected : 8/25/2015 11:42:10 PM
 System Name : White Dionex
 Detector Name : PED-Cond.
 Column Type : AS14# 010-04-080
 System Operator :

| Peak Information : All Components | | | | | | | |
|-----------------------------------|----------|----------------|----------------|--------|--------|----------|--------|
| Pk. Num | Ret Time | Component Name | Conc., ug/L | Height | Area | BI. Code | %Delta |
| 1 | 6.80 | | 0.000 | 9228 | 817845 | 1 | |
| | | | ---total(s)--- | | | | |
| | | | 0.000 | | 817845 | | |

CCB2



**SOUTHWEST RESEARCH INSTITUTE
CLIENT: CH2M Hill Plateau Remediation
Company
TASK ORDER(s): 150807-12
SRR: 55929
SDG: 579621
CASE: F15-048
VTSR: 08.07.15
PROJECT#: 20859.01.00X**

STANDARD LOGS & CERTIFICATES OF ANALYSIS

TITLE

PROJECT NO.

010114

27

BOOK NO.

15-0406-021

SWRI

Work continued from Page

27-01-WCSII: Acetate @ 1000 mg/L trihydrate STD

dissolve 0.2301 g of sodium acetate (ID# 35215)

to final volume 100 ml w DI H₂O.

balance # 88

Exp. date 6/1/14

27-02-WCSII: Formate @ 1000 mg/L STD

dissolve 0.1512^{g*} of sodium formate (#35301) to final volume 100 ml w DI H₂O

27-03-WCSII: Acetate @ 1000 mg/L QC

dissolve 0.2302 g of sodium acetate trihydrate (#35215)

to final volume 100 ml w DI H₂O

32732

* TE 06/11/15 gdl

27-04-WCSII: Formate @ 1000 mg/L QC

dissolve 0.1512 g of sodium formate (#26460)

to final volume 100 ml w DI H₂O.

all on page: balance # 88
Exp date 6/1/14

SIGNATURE

DATE

Quayle Mera
M. Grubaldon

6/1/15

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

Certificate of Analysis

Product Name: SODIUM FORMATE
 puriss. p.a., ACS reagent
Product Number: 71541
Batch Number: 1376451V
Brand: Sigma-Aldrich
CAS Number: 141-53-7
Formula: CHNaO2
Formula Weight: 68.01
Quality Release Date: 24 JAN 2008
Date retested: 31 JAN 2012
Recommended Retest Date: JUL 2016

| TEST | SPECIFICATION | RESULT |
|-------------------------------|--------------------------------------|-------------------------------|
| APPEARANCE (COLOR) | WHITE TO ALMOST WHITE | ALMOST WHITE |
| APPEARANCE (FORM) | FINE CRYSTALS TO CRYSTALS WITH LUMPS | CRYSTALS WITH LUMPS |
| TITRATION (NT) HCLO4 0.1M | ≥ 99.0 % | 99.4 % |
| SOLUBILITY (COLOR) | COLORLESS | COLORLESS |
| SOLUBILITY (TURBIDITY) | CLEAR (< 3.5 NTU) | CLEAR (<3.5 NTU) |
| SOLUBILITY (METHOD) | — | 1G IN 20 ML H2O |
| PH | 7.0 - 8.5 | 7.5 |
| LOSS ON DRYING | ≤ 0.1 % | 0.05 % |
| ACS SPECIFICATIONS | CORRESPONDS TO REQUIREMENTS | CORRESPONDS TO ACS (10TH ED.) |
| METAL TRACE ANALYSIS (ICP) | CORRESPONDS TO REQUIREMENTS | PASSED |
| CALCIUM (ICP) | ≤ 10 MG/KG | < 10 MG/KG |
| CADMIUM (ICP) | ≤ 5 MG/KG | < 5 MG/KG |
| COBALT (ICP) | ≤ 5 MG/KG | < 5 MG/KG |
| CHROMIUM (ICP) | ≤ 5 MG/KG | < 5 MG/KG |
| COPPER (ICP) | ≤ 5 MG/KG | < 5 MG/KG |
| IRON (ICP) | ≤ 5 MG/KG | < 5 MG/KG |
| POTASSIUM (ICP) | ≤ 100 MG/KG | < 100 MG/KG |
| MAGNESIUM (ICP) | ≤ 5 MG/KG | < 5 MG/KG |
| MANGANESE (ICP) | ≤ 5 MG/KG | < 5 MG/KG |
| NICKEL (ICP) | ≤ 5 MG/KG | < 5 MG/KG |
| LEAD (ICP) | ≤ 5 MG/KG | < 5 MG/KG |
| ZINC (ICP) | ≤ 5 MG/KG | < 5 MG/KG |
| TOTAL PHOSPHORUS AS PO4 (ICP) | ≤ 10 MG/KG | < 10 MG/KG |

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SwRI Chem ID: 35301

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Certificate of Analysis

| | | |
|---------------------------------------|------------|------------|
| TOTAL SULFUR AS SO ₄ (ICP) | ≤ 10 MG/KG | < 10 MG/KG |
| CHLORIDE (CL) | ≤ 10 MG/KG | < 10 MG/KG |



Dr. Claudia Geitner
 Manager Quality Control
 Buchs, Switzerland

SwRI Chem ID: 35301

SwRI Chem ID: 35301

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