

October 30, 2015

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Richland
2800 George Washington Way
Richland, WA 99352
Tel: (509)375-3131

TestAmerica Job ID: 300-1206-1
TestAmerica Sample Delivery Group: WC0496
Client Project/Site: CH2M Hill Chemical

For:
CH2M Hill Plateau Remediation Company
PO BOX 1600
Mail Stop R3-50
Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:
10/30/2015 4:04:56 PM
Steven Campbell, Quality Assurance Assistant
steven.campbell@testamericainc.com

Designee for
Whitney Ritari, Project Manager I
(509)375-3131 ext164
whitney.ritari@testamericainc.com

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed in this package. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the attached signature.

The laboratory is accredited to EPA 7196A in Solid and Chemical Materials, per Washington State Department of Ecology this is approved for non-discharge water samples. The sample/ sample duplicate RPD agreement is not applicable if one or both results are elss than five times the MDL.



LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



Table of Contents

| | |
|----------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 2 |
| Definitions/Glossary | 3 |
| Case Narrative | 4 |
| Chain of Custody | 5 |
| Detection Summary | 42 |
| Client Sample Results | 49 |
| QC Sample Results | 59 |
| QC Association Summary | 63 |
| Lab Chronicle | 66 |
| Method Summary | 80 |
| Sample Summary | 81 |
| Receipt Checklists | 83 |

Qualifiers

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| D | The reported value is from a dilution. |
| U | Analyzed for but not detected. |
| B | Estimated result. Result is less than the RL, but greater than MDL |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| U | Analyzed for but not detected. |
| B | Estimated result. Result is less than the RL, but greater than MDL |
| M | Sample duplicate precision not met. |
| N | MS, MSD: Spike recovery is outside acceptance limits. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Job ID: 300-1206-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-1206-1**

Comments

No additional comments.

Receipt

The samples were received on 10/23/2015 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.0° C.

HPLC/IC

Method 300.0: Manual integration was performed on the following sample for Fluoride: B32P03 (300-1206-54); for Bromide: B32Y84 (300-1206-45); for Sulfate: B32Y84 (300-1206-45) and B32NY7 (300-1206-48); and for Nitrite as N: B32NW7 (300-1206-47), B32NY0 (300-1206-49) and B32NM3 (300-1206-53).

The following samples required filtration to reduce matrix interferences and solids: B32NW7 (300-1206-47), B32NY7 (300-1206-48), B32NY0 (300-1206-49), B32NM3 (300-1206-53) and B32P03 (300-1206-54).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 7196A: The matrix spike / sample duplicate (MS/DUP) precision for analytical batch 300-1669 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



| | | | | | |
|--|------------------------------------|--------------------|---|-----------------------------|--------------|
| Collector | S.W. King/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURY, OCTOBER 2015 | Logbook No. | HNF-N-506 <u>77/81</u> | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURY | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** 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 | | | Hold Time | | |
| | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Sample No. | Filter | * Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|--------------------|------------------|--------------|--------------|
| B32R42 | Y | OCT 23 2015 | 1115 | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32R40 | N | W | Y | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015



300-1206 COC

#1206
WCO496

| | | | | | | | | | | | | | | |
|-----------------|-----------------|-----------|-----------|-------------|-------------|-----------|-------------|-----------------|-----------|-----------|-------------|-------------|--|----------|
| Relinquished By | S.W. King/CHPRC | Print | Sign | Date/Time | OCT 23 2015 | 1135 | Received By | L.D. Wall | Print | Sign | Date/Time | OCT 23 2015 | 1135 | Matrix * |
| Relinquished By | L.D. Wall | Superc | Signature | Date/Time | OCT 23 2015 | 1500 | Received By | J. Friesz, TARR | Signature | Date/Time | OCT 23 2015 | 1500 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other | |
| Relinquished By | | Date/Time | | Received By | | Date/Time | | | | | | | | |

| | | | |
|--------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|--------------------------|--|-------------|-----------|

| | | | | | |
|--|------------------------------------|--------------------|-----------------------------|-----------------------------|--------------|
| Collector | S.W. King/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 77/81 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** 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 | | | N/A | | |
| Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | Hold Time | | |

| Sample No. | Filter | Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|--------------------|------------------|--------------|--------------|
| B32R36 | Y | OCT 23 2015 | 1050 | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32R33 | N | W | ✓ | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1206
WCOYEL

| | | | | | | | | | |
|-----------------|-----------------|------------|-------------|------|-------------|-----------------|------------|-------------|------|
| Relinquished By | S.W. King/CHPRC | Print Sign | Date/Time | 1035 | Received By | L.D. Wall | Print Sign | Date/Time | 1035 |
| Relinquished By | L.D. Wall | CHPRC | OCT 23 2015 | 1500 | Received By | REGINA SZ, TARL | CHPRC | OCT 23 2015 | 1500 |
| Relinquished By | | | | | Received By | | | | |
| Relinquished By | | | | | Received By | | | | |

- Matrix *
- S = Soil
 - SE = Sediment
 - SO = Solid
 - SL = Sludge
 - W = Water
 - O = Oil
 - A = Air
 - DS = Drum Solids
 - DL = Drum Liquids
 - T = Tissue
 - WI = Wipe
 - L = Liquid
 - V = Vegetation
 - X = Other

| | | | |
|--------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|--------------------------|--|-------------|-----------|

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-364
Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|-----------------------------|-----------------------------|--------------|
| Collector | S.W. King/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-50677/81 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| ** ** 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 | | | N/A | | |
| Total activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | Hold Time | | |

| Sample No. | Filter | * Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|-------------------|------------------|--------------|--------------|
| B32P73 | N | OCT 23 2015 | 1000 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32P74 | Y | W | ↓ | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1226
wcoif96

| | | | | | | | | |
|--------------------------|-----------------|------------|------------------|--|-----------------|------------|------------------|--|
| Relinquished By | S.W. King/CHPRC | Print Sign | Date/Time | Received By | L.D. Mail CHPRC | Print Sign | Date/Time | Matrix * |
| Relinquished By | L.D. Mail | Signature | OCT 23 2015 1135 | Received By | J. Friesz, TARL | Signature | OCT 23 2015 1135 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other |
| Relinquished By | Signature | Signature | OCT 23 2015 1500 | Received By | Signature | Signature | OCT 23 2015 1500 | |
| Relinquished By | Signature | Signature | Date/Time | Received By | Signature | Signature | Date/Time | |
| FINAL SAMPLE DISPOSITION | | | | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | | | | Date/Time |

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-362
Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|---|-----------------------------|--------------|
| Collector | S.W. King/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURY, OCTOBER 2015 | Logbook No. | HNF-N-506 <u>77181</u> | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURY | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** 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 | | | N/A | | |
| Hold Time | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Sample No. | Filter | * Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|-------------------|------------------|--------------|--------------|
| B32P70 | Y | OCT 23 2015 | 0915 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32P66 | N | W | ✓ | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1206
wccat96

| | | | | | | | | |
|-----------------|-----------------|------------|-----------|-------------|-----------------|------------|-----------|--|
| Relinquished By | S.W. King/CHPRC | Print Sign | Date/Time | Received By | L.D. Wall CHPRC | Print Sign | Date/Time | Matrix * |
| Relinquished By | L.D. Wall CHPRC | Print Sign | Date/Time | Received By | J. Friesz, TARL | Print Sign | Date/Time | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air |
| Relinquished By | | | | Received By | | | | DS = Drum Solids DL = Drum Liquids T = Tissue WT = Waste L = Liquid V = Vegetation X = Other |

| | | | | | |
|--|------------------------------------|--------------------|--|-----------------------------|--------------|
| Collector | S.W. King/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 77 / 81 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | PRIORITY | | |
| *** 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 | | | SPECIAL INSTRUCTIONS N/A | | |
| | | | Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Sample No. | Filter | * Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|--------------------|------------------|--------------|--------------|
| B32P42 | Y | OCT 23 2015 | 0835 | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32P40 | N | W | | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

41206
Wcdy96

| | | | | | | | | | | |
|--------------------------|--|------------|-----------|------------------|-------------|-----------------|------------|-----------|------------------|--|
| Relinquished By | S.W. King/CHPRC | Print Sign | Date/Time | OCT 23 2015 1135 | Received By | L.D. Wall/CHPRC | Print Sign | Date/Time | OCT 23 2015 1135 | Matrix * |
| Relinquished By | L.D. Wall/CHPRC | Print Sign | Date/Time | OCT 23 2015 1500 | Received By | J. Friesz, TARI | Print Sign | Date/Time | OCT 23 2015 1500 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WL = Wipe L = Liquid V = Vegetation X = Other |
| Relinquished By | | | Date/Time | | Received By | | | Date/Time | | |
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | | | | Disposed By | | Date/Time | | | |

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-360

Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|------------------------|---|--------------|
| Collector | S.W. King/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 <u>77/81</u> | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | PRIORITY | | SPECIAL INSTRUCTIONS | |
| *** 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 | | N/A | | Hold Time | |
| | | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | |

| Sample No. | Filter | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|-------------------|------------------|--------------|--------------|
| B32P65 | N | OCT 23 2015 | 0700 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32P69 | Y | W | ↓ | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1206
W0496

| | | | | | | | | | |
|-----------------|-----------------|-----------|-----------|------------------|-------------|-----------------|-----------|-----------|------------------|
| Relinquished By | S.W. King/CHPRC | Print | Signature | Date/Time | Received By | L.D. Wall | Print | Signature | Date/Time |
| Relinquished By | L.D. Wall | CHPRC | Signature | OCT 23 2015 1350 | Received By | J. Friesz, TARK | Signature | Signature | OCT 23 2015 1500 |
| Relinquished By | CHPRC | Signature | Signature | OCT 23 2015 1500 | Received By | Signature | Signature | Signature | OCT 23 2015 1500 |

- Matrix *
- S = Soil
 - SE = Sediment
 - SO = Solid
 - SL = Sludge
 - W = Water
 - O = Oil
 - A = Air
 - DS = Drum Solids
 - DL = Drum Liquids
 - T = Tissue
 - WT = Wipe
 - L = Liquid
 - V = Vegetation
 - X = Other

| | | | |
|--------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|--------------------------|--|-------------|-----------|

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

S16-010-502

Page 1 of 1

| | | | | | |
|--|------------------------------------|----------------------|---------------------|--|--------------|
| Collector | DL Floyd/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURY, OCTOBER 2015 | Logbook No. | HNF-N-506 76/90 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURY | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | PRIORITY | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | |
| *** 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 | | SPECIAL INSTRUCTIONS | | Hold Time | |
| | | N/A | | | |

| Sample No. | Filter | * | Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|---|-------------|-------|--------------------|------------------|--------------|--------------|
| B32T10 | Y | W | OCT 23 2015 | 11:00 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32T09 | N | W | OCT 23 2015 | 11:00 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

1206
W 68496

| | | | | | | | | | | |
|-----------------|----------------|-------|-------------|-------------------|-------------|-----------------|-------------|------|-------------------|---|
| Relinquished By | DL Floyd/CHPRC | Print | Sign | Date/Time | Received By | LD Wall | Print | Sign | Date/Time | Matrix * |
| Relinquished By | LD Wall | CHPRC | [Signature] | OCT 23 2015 11:15 | Received By | J. Friesz, TARR | [Signature] | | OCT 23 2015 11:15 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air |
| Relinquished By | LD Wall | CHPRC | [Signature] | OCT 23 2015 15:00 | Received By | [Signature] | | | OCT 23 2015 15:00 | DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other |
| Relinquished By | | | | Date/Time | Received By | | | | Date/Time | |

| | | | |
|---------------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|---------------------------------|--|-------------|-----------|

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S16-010-496
Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|---|-----------------------------|--------------|
| Collector | D.L. Floyd/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-50676/58 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| ** ** 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 | | | Hold Time | | |
| | | | N/A | | |
| | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Sample No. | Filter | * Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|--------|-------------|-------------------|------------------|--------------|--------------|
| B32RX6 | N | W | OCT 23 2015 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32RY0 | Y | W | OCT 23 2015 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1206

WCO496

| | | | | | | | | |
|--------------------------|--|------|------------------|-------------|-------|------|------------------|---|
| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time | Matrix * |
| D.L. Floyd/CHPRC | | | OCT 23 2015 1145 | L.D. Wall | | | OCT 23 2015 1145 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air |
| Relinquished By | | | Date/Time | Received By | | | Date/Time | DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other |
| Relinquished By | | | Date/Time | Received By | | | Date/Time | |
| Relinquished By | | | Date/Time | Received By | | | Date/Time | |
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | | | Disposed By | | | Date/Time | |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-497

Page 1 of 1

| | | | | | |
|---|------------------------------------|--------------------|---|-----------------------------|--------------|
| Collector | D.L. Floyd/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURY, OCTOBER 2015 | Logbook No. | HNF-N-506 76/82 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURY | Priority: | 30 Days PRIORITY | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** 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 | | | Hold Time | | |
| | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Sample No. | Filter | * | Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|---|-------------|------|--------------------|------------------|--------------|--------------|
| B32RX7 | N | W | OCT 23 2015 | 1014 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32RY1 | Y | W | OCT 23 2015 | 1014 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#206
W50496

| | | | | | | | | |
|------------------|-------|------|------------------|-----------------|-------|------|------------------|---|
| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time | Matrix * |
| D.L. Floyd/CHPRC | | | OCT 23 2015 1145 | L.D. Wall CHPRC | | | OCT 23 2015 1145 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air |
| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time | DS = Drumm Solids DL = Drumm Liquids T = Tissue WL = Wipe L = Liquid V = Vegetation X = Other |
| L.D. Wall CHPRC | | | OCT 23 2015 1500 | J. Fitesz, TARL | | | OCT 23 2015 1500 | |
| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time | |
| | | | | | | | | |

| | | | |
|--------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
| | | | |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

CH2MHILL Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-313

Page 1 of 1

| | | |
|---|---|---|
| Collector CHRIS FUJTON CHPRC | Contact/Requester Karen Waters-Husted | Telephone No. 509-376-4650 |
| SAF No. S16-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code 300071 |
| Project Title SURY, OCTOBER 2015 | Logbook No. HNF-N-506 80/6 | Ice Chest No. N/A |
| Shipped To (Lab) TestAmerica Incorporated, Richland | Method of Shipment GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. N/A |
| Protocol SURY | Priority: 30 Days | Offsite Property No. N/A |

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

SPECIAL INSTRUCTIONS
N/A

PRIORITY

HOLD TIME

Total Activity Exemption: Yes No

| Sample No. | Filter | * Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|--------|------------------|--------------------|------------------|--------------|--------------|
| B32NM4 | N | W | OCT 23 2015 0917 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32NM6 | Y | W | ↓ | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

#1206
W 20496

| | | | | | | |
|--|---|--------------------------------------|---|--|--------------------------------------|---|
| Relinquished By CHRIS FUJTON CHPRC |  | Date/Time OCT 23 2015 1106 | Received By L.D. Wall CHPRC |  | Date/Time OCT 23 2015 1106 | Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other |
| Relinquished By L.D. Wall CHPRC |  | Date/Time OCT 23 2015 1500 | Received By J. Fitesz, TARL |  | Date/Time OCT 23 2015 1500 | |
| Relinquished By | | Date/Time | Received By | | Date/Time | |

| | | | |
|--------------------------|---|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g. Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|--------------------------|---|-------------|-----------|

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-341
Page 1 of 1

| | | | | | |
|------------------|------------------------------------|--------------------|---------------------|-----------------------------|--------------|
| Collector | CHRIS FULTON CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 80/6 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |

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

SPECIAL INSTRUCTIONS
 From chemically injected well. No preservation added. Preservation causes bottles to break.

Total Activity Exemption: Yes No

| Sample No. | Filter | * Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|-------------------|------------------|--------------|--------------|
| B32P05 | N | OCT 23 2015 | 1052 | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32P07 | Y | W | ↓ | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1208
 W 50496

| | | | | | | | | | | | | | |
|-----------------|-----------------------|------|--|-----------|------------------|-------------|--------------------|-------|--|------|--|-----------|------------------|
| Relinquished By | CHRIS FULTON CHPRC | Sign | | Date/Time | OCT 23 2015 1106 | Received By | L.D. Wall CHPRC | Print | | Sign | | Date/Time | OCT 23 2015 1106 |
| Relinquished By | L.D. Wall CHPRC | Sign | | Date/Time | OCT 23 2015 1500 | Received By | J. HESS, TARI | Print | | Sign | | Date/Time | OCT 23 2015 1500 |

| Matrix * | |
|----------|-----------------|
| S | = Soil |
| SE | = Sediment |
| SO | = Solid |
| SL | = Sludge |
| W | = Water |
| O | = Oil |
| A | = Air |
| DS | = Drums Solids |
| DL | = Drums Liquids |
| T | = Tissue |
| WT | = Wipe |
| L | = Liquid |
| V | = Vegetation |
| X | = Other |

| | | | | | | | |
|--------------------------|--|-----------|--|-------------|--|-----------|--|
| Relinquished By | | Date/Time | | Received By | | Date/Time | |
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | | | | | | |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-487
Page 1 of 1

| | | | |
|---|------------------------------------|---|-----------------------|
| Collector | K.C. Patterson/CHPRC | Contact/Requester | Karen Waters-Husted |
| SAF No. | S16-010 | Sampling Origin | Hanford Site |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 <u>2111</u> |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE |
| Protocol | SURV | Priority: | 30 Days |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | SPECIAL INSTRUCTIONS | |
| *** 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 | | Hold Time: N/A | |
| | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | |

| Sample No. | Filter | Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|--------------------|------------------|--------------|--------------|
| B32RT4 | Y | OCT 23 2015 | 0922 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32RT3 | N | OCT 23 2015 | 0922 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#126
w 0496

| | | | | | | |
|----------------------|----------------|------------------|-----------------|-----------------|------------------|---|
| Reinquished By | Print | Date/Time | Received By | Print | Date/Time | Matrix * |
| K.C. Patterson/CHPRC | | OCT 23 2015 1110 | L.D. Wall/CHPRC | | OCT 23 2015 1110 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air |
| Reinquished By | LD. Wall/CHPRC | OCT 23 2015 1500 | Received By | J. Friesz, TARL | OCT 23 2015 1500 | DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other |
| Reinquished By | | | Received By | | | |

| | |
|--------------------------|--|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) |
| Reinquished By | Date/Time |
| Received By | Date/Time |

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

S16-010-489

Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|---|-----------------------------|--------------|
| Collector | KC. Patterson/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURY, OCTOBER 2015 | Logbook No. | HNF-N-506 81/1 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURY | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** 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 | | | Hold Time | | |
| | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Sample No. | Filter | * Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|---------------|------|--------------------|------------------|--------------|--------------|
| B32RT7 | N | W OCT 23 2015 | 0956 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32RT9 | Y | W OCT 23 2015 | 0956 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1206
LCCU96

| | | | | | | | | |
|----------------------|-----------|-------------|------------------|--------------------|-------|-----------|------------------|---|
| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time | Matrix * |
| K.C. Patterson/CHPRC | | | OCT 23 2015 1110 | L.D. Wall CHPRC | | | OCT 23 2015 1114 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air |
| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time | Matrix * |
| L.D. Wall CHPRC | | | OCT 23 2015 1500 | | | | OCT 23 2015 1500 | DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other |
| Relinquished By | Date/Time | Received By | Date/Time | | | Date/Time | | |

| | | | |
|--------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|--------------------------|--|-------------|-----------|

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-488
Page 1 of 1

| | | |
|--|--|------------------------------------|
| Collector: K.C. Paterson/CHPRC | Contact/Requester: Karen Waters-Husted | Telephone No.: 509-376-4650 |
| SAF No.: S16-010 | Sampling Origin: Hanford Site | Purchase Order/Charge Code: 300071 |
| Project Title: SURV, OCTOBER 2015 | Logbook No.: HNF-N-506 8111 | Ice Chest No.: N/A |
| Shipped To (Lab): TestAmerica Incorporated, Richland | Method of Shipment: GOVERNMENT VEHICLE | Bill of Lading/Air Bill No.: N/A |
| Protocol: SURV | Priority: 30 Days | Offsite Property No.: N/A |
| 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 | | |
| SPECIAL INSTRUCTIONS N/A | | |
| Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Sample No. | Filter | * Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|--------------------|------------------|--------------|--------------|
| B32RT8 | Y | OCT 23 2015 | 0956 | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32RT6 | N | OCT 23 2015 | 0956 | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1206
WCO496

| | | | | | | | | |
|--------------------------------------|--------------------|-------------------|-----------------------------|------------------------------|--------------------|-------------------|-----------------------------|--|
| Relinquished By: K.C. Paterson/CHPRC | Print: [Signature] | Sign: [Signature] | Date/Time: OCT 23 2015 1110 | Received By: L.D. Wall/CHPRC | Print: [Signature] | Sign: [Signature] | Date/Time: OCT 23 2015 1110 | Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other |
| Relinquished By: L.D. Wall/CHPRC | Print: [Signature] | Sign: [Signature] | Date/Time: OCT 23 2015 1500 | Received By: J. Friesz, TAPI | Print: [Signature] | Sign: [Signature] | Date/Time: OCT 23 2015 1500 | |
| Relinquished By: | Print: | Sign: | Date/Time: | Received By: | Print: | Sign: | Date/Time: | |

| | | | |
|--------------------------|--|--------------|------------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By: | Date/Time: |
|--------------------------|--|--------------|------------|

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

S16-010-443

Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|---|-----------------------------|--------------|
| Collector | S.W. King/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 7782 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days PRIORITY | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** Contents Radioactive Material at concentrations that are not regulated for transportation per 49 CFR /ATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1 | | | Hold Time | | |
| | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Sample No. | Filter | * Date | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|--------------------|------|--------------|-------------------|------------------|--------------|--------------|
| B32R64 | Y | OCT 23 2015 | | 12:10 | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32R63 | N | W | | Y | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1206
W 00496

| | | | | | | | | |
|----------------|---------------------------------|----------------------------|---------------------------------|-------------|---------------------------------|----------------------------|---------------------------------|--|
| Reinquished By | Print S.W. King/CHPRC | Sign <i>[Signature]</i> | Date/Time OCT 23 2015 | Received By | Print F.M. Hall/CHPRC | Sign <i>[Signature]</i> | Date/Time OCT 23 2015 | Matrix * |
| Reinquished By | F.M. Hall/CHPRC | <i>[Signature]</i> | Date/Time OCT 23 2015 | Received By | J. Friesz, TARL | <i>[Signature]</i> | Date/Time OCT 23 2015 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other |
| Reinquished By | | | Date/Time | Received By | | | Date/Time | |

| | | | |
|--------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|--------------------------|--|-------------|-----------|

| | | | | | |
|--|------------------------------------|--------------------|---|-----------------------------|--------------|
| Collector | D.L. Floyd/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506-76/50 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** 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 | | | Hold Time | | |
| | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Sample No. | Filter | * Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|--------------------|------------------|--------------|--------------|
| B32RV9 | N | OCT 23 2015 | 1239 | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32RW1 | Y | OCT 23 2015 | 1239 | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1206
W 0496

| | | | | | |
|------------------|------------|------------------|-----------------|------------|------------------|
| Relinquished By | Print Sign | Date/Time | Received By | Print Sign | Date/Time |
| D.L. Floyd/CHPRC | | OCT 23 2015 1400 | F.M. Hall/CHPRC | | OCT 23 2015 1400 |
| Relinquished By | Print Sign | Date/Time | Received By | Print Sign | Date/Time |
| D.L. Floyd/CHPRC | | OCT 23 2015 1500 | F.M. Hall/CHPRC | | OCT 23 2015 1500 |
| Relinquished By | Print Sign | Date/Time | Received By | Print Sign | Date/Time |
| | | | | | |
| Relinquished By | Print Sign | Date/Time | Received By | Print Sign | Date/Time |
| | | | | | |

| Matrix * | |
|----------|----------------|
| S | = Soil |
| SE | = Sediment |
| SO | = Solid |
| SL | = Sludge |
| W | = Water |
| O | = Oil |
| A | = Air |
| DS | = Drum Solids |
| DL | = Drum Liquids |
| T | = Tissue |
| WI | = Wipe |
| L | = Liquid |
| V | = Vegetation |
| X | = Other |

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-494
Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|----------------------|-----------------------------|--------------|
| Collector | D.L. Foyd/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 76/80 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** 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 | | | N/A | | |
| Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | | | |

| Sample No. | Filter | * | Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|---|-------------|------|--------------------|------------------|--------------|--------------|
| B32RW7 | Y | W | OCT 23 2015 | 1323 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32RW5 | N | W | OCT 23 2015 | 1323 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

Handwritten: #nose
w ca 96

| | | | | | | | | | | | |
|--------------------------|--|-------|------|-----------|------|-------------|-----------------|-----------|------|-----------|------|
| Relinquished By | D.L. Foyd/CHPRC | Print | Sign | Date/Time | 1400 | Received By | F.M. HaulchPRC | Print | Sign | Date/Time | 9902 |
| Relinquished By | F.M. HaulchPRC | Print | Sign | Date/Time | 1500 | Received By | J. Friesz, TARL | Print | Sign | Date/Time | 1500 |
| Relinquished By | | Print | Sign | Date/Time | | Received By | | Print | Sign | Date/Time | |
| Relinquished By | | Print | Sign | Date/Time | | Received By | | Print | Sign | Date/Time | |
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | | | | | Disposed By | | Date/Time | | | |

Matrix *

| | |
|---------------|-------------------|
| S = Soil | DS = Drum Solids |
| SE = Sediment | DL = Drum Liquids |
| SO = Solid | T = Tissue |
| SL = Sludge | WT = Wipe |
| W = Water | L = Liquid |
| O = Oil | V = Vegetation |
| A = Air | X = Other |

| | | |
|--|--|--------------------------------------|
| Collector CHRIS FULTON CHPRC | Contact/Requester Karen Waters-Husted | Telephone No. 509-376-4650 |
| SAF No. S16-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code 300071 |
| Project Title SURY, OCTOBER 2015 | Logbook No. HNF-N-506 <i>8D/L</i> | Ice Chest No. N/A |
| Shipped To (Lab) TestAmerica Incorporated, Richland | Method of Shipment GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. N/A |
| Protocol SURV | Priority: 30 Days | Offsite Property No. N/A |

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

| Sample No. | Filter | * Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|--------|------------------|--------------------|------------------|--------------|--------------|
| B32P01 | Y | W | OCT 23 2015 1308 | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32NY9 | N | W | ↓ | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

#1266
W C0496

| | | | | | | | |
|--|----------------------------|-------------------------------|-----------------------------------|-----------------------------|----------------------------|-------------------------------|--|
| Relinquished By CHRIS FULTON CHPRC | Sign <i>[Signature]</i> | Date/Time OCT 23 2015 1415 | Received By L.D. Wall CHPRC | Print <i>[Signature]</i> | Sign <i>[Signature]</i> | Date/Time OCT 23 2015 1415 | Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other |
| Relinquished By L.D. Wall CHPRC | Sign <i>[Signature]</i> | Date/Time OCT 23 2015 1500 | Received By J. Friesz, TARL | Print <i>[Signature]</i> | Sign <i>[Signature]</i> | Date/Time OCT 23 2015 1500 | |

| | | | |
|--------------------------|--|-------------|-----------|
| Relinquished By | Date/Time | Received By | Date/Time |
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |

October 30, 2015

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

S16-010-333

Page 1 of 1

| | | |
|--|--|--|
| Collector CHRIS FULTON CHPRC | Contact/Requester Karen Waters-Husted | Telephone No. 509-376-4650 |
| SAF No. S16-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code 300071 |
| Project Title SURY, OCTOBER 2015 | Logbook No. HNF-N-506 80/6 | Ice Chest No. N/A |
| Shipped To (Lab) TestAmerica Incorporated, Richland | Method of Shipment GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. N/A |
| Protocol SURV | Priority: 30 Days | Offsite Property No. N/A |
| <p>POSSIBLE SAMPLE HAZARDS/REMARKS</p> <p>** ** 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</p> | | <p>SPECIAL INSTRUCTIONS</p> <p>From chemically injected well. No preservation added. Preservation causes bottles to break.</p> |
| <p>Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> | | |

| Sample No. | Filter | * Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|-------------------|------------------|--------------|--------------|
| B32NWX9 | N | OCT 23 2015 | 1210 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32NWX1 | Y | W ↓ | ↓ | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1206
WCO496

| | | | | | | | |
|--|-----------|------|-------------------------------|----------------------------------|-----------|------|-------------------------------|
| Relinquished By CHRIS FULTON CHPRC | Print | Sign | Date/Time OCT 23 2015 1415 | Received By LD. WALL CHPRC | Print | Sign | Date/Time OCT 23 2015 1415 |
| Relinquished By LD. WALL CHPRC | Print | Sign | Date/Time OCT 23 2015 1500 | Received By J. FRIESZ, TARR | Print | Sign | Date/Time OCT 23 2015 1500 |
| Relinquished By | | | Date/Time | Received By | | | Date/Time |

| Matrix * | |
|----------|----------------|
| S | = Soil |
| SE | = Sediment |
| SO | = Solid |
| SL | = Sludge |
| W | = Water |
| O | = Oil |
| A | = Air |
| DS | = Drum Solids |
| DL | = Drum Liquids |
| T | = Tissue |
| WL | = Wipe |
| L | = Liquid |
| V | = Vegetation |
| X | = Other |

| | | | |
|--------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|--------------------------|--|-------------|-----------|



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S16-010-337

Page 1 of 1

| | | |
|--|--|--|
| Collector CHRIS FULTON CHPRC | Contact/Requester Karen Waters-Husted | Telephone No. 509-376-4650 |
| SAF No. S16-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code 300071 |
| Project Title SURY, OCTOBER 2015 | Logbook No. HNF-N-506 | Ice Chest No. N/A |
| Shipped To (Lab) TestAmerica Incorporated, Richland | Method of Shipment GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. N/A |
| Protocol SURV | Priority: 30 Days | Offsite Property No. N/A |
| 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 | | SPECIAL INSTRUCTIONS From chemically injected well. No preservation added. Preservation causes bottles to break. |
| Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Sample No. | Filter | Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|--------------------|------------------|--------------|--------------|
| B32NY4 | Y | OCT 23 2015 | 1350 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32NY2 | N | W | ↓ | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1206
WCS496

| | | | | | | | |
|---|----------|-------------------------------|--|-----------|----------|-------------------------------|--|
| Relinquished By CHRIS FULTON CHPRC | Sign | Date/Time OCT 23 2015 1415 | Received By L.D. Wall CHPRC | Print | Sign | Date/Time OCT 23 2015 1415 | Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other |
| Relinquished By L.D. Wall CHPRC | Sign | Date/Time OCT 23 2015 1500 | Received By J. Friesz, TARL | Print | Sign | Date/Time OCT 23 2015 1500 | |
| Relinquished By | Sign | Date/Time | Received By | Print | Sign | Date/Time | |

| | | | |
|---------------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|---------------------------------|--|-------------|-----------|



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-307
Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|-----------------------------|-----------------------------|--------------|
| Collector | K.C. Paterson/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURY, OCTOBER 2015 | Logbook No. | HNF-N-506 8111 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURY | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** 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 | | | N/A | | |
| Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | Hold Time | | |

| Sample No. | Filter | * | Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|---|-------------|------|--------------------|------------------|--------------|--------------|
| B32NK8 | Y | W | OCT 23 2015 | 1400 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32NK6 | N | W | OCT 23 2015 | 1400 | 1x60-ml aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1206
W Col 96

| | | | | | | | | | | | |
|-----------------|--------------------|-------|------|-----------|------------------|-------------|-----------------|-------|------|-----------|------------------|
| Relinquished By | <i>[Signature]</i> | Print | Sign | Date/Time | OCT 23 2015 1421 | Received By | LD. Wall | Print | Sign | Date/Time | OCT 23 2015 1421 |
| Relinquished By | <i>[Signature]</i> | Print | Sign | Date/Time | OCT 23 2015 1500 | Received By | J. Friesz, TARI | Print | Sign | Date/Time | OCT 23 2015 1500 |
| Relinquished By | <i>[Signature]</i> | Print | Sign | Date/Time | | Received By | | Print | Sign | Date/Time | |

| Matrix * | |
|----------|----------------|
| S | = Soil |
| SE | = Sediment |
| SO | = Solid |
| SL | = Sludge |
| W | = Water |
| O | = Oil |
| A | = Air |
| DS | = Drum Solids |
| DL | = Drum Liquids |
| T | = Tissue |
| WI | = Wipe |
| L | = Liquid |
| V | = Vegetation |
| X | = Other |

| | | | |
|--------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|--------------------------|--|-------------|-----------|

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-309
Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|---|-----------------------------|--------------|
| Collector | K.C. Patterson/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 81 / 1 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** 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 | | | Hold Time | | |
| | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Sample No. | Filter | * Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|--------------------|------------------|--------------|--------------|
| B32NL2 | N | OCT 23 2015 | 1232 | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |
| B32NL4 | Y | OCT 23 2015 | 1232 | 1x60-mL aG | 7196_CR6: COMMON | 24 Hours | Cool <=6C |

October 30, 2015

#1206
WCO496

| | | | | | | | | |
|-----------------|-------------------------------|-------|-------------------------------|-------------|-------------------|------|-------------------------------|--|
| Relinquished By | Print K.C. Patterson/CHPRC | Sign | Date/Time OCT 23 2015 1421 | Received By | Print LD. Wall | Sign | Date/Time OCT 23 2015 1421 | Matrix * |
| Relinquished By | LD. Wall | CHPRC | OCT 23 2015 1500 | Received By | J. Hesz, TARL | | OCT 23 2015 1500 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other |

| | | | |
|--------------------------|--|-------------|-----------|
| Relinquished By | Date/Time | Received By | Date/Time |
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |

| | | | | | |
|---|------------------------------------|--------------------|---|-----------------------------|--------------|
| Collector | D.L. Floyd/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 76/80 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** 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 | | | HOLD TIME | | |
| | | | N/A | | |
| | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Sample No. | Filter | * Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|--------|------------------|--------------------|--|--------------|--------------|
| B32Y84 | N | W | OCT 23 2015 1239 | 1x500-mL P | 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 02 | 48 Hours | Cool <=6C |

#1206
w cat 9b

| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time | Matrix * |
|------------------|-------|------|------------------|-----------------|-------|------|-------------|---|
| D.L. Floyd/CHPRC | | | OCT 23 2015 1400 | F.M. Hall/CHPRC | | | OCT 23 2015 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air |
| F.M. Hall/CHPRC | | | OCT 23 2015 1500 | J. Bock, TARI | | | OCT 23 2015 | DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other |
| Relinquished By | | | Date/Time | Received By | | | Date/Time | |

| | | | |
|--------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|--------------------------|--|-------------|-----------|

October 30, 2015



CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-252
Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|-----------------------------|-----------------------------|--------------|
| Collector | D.L. Floyd/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAP No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 <u>74 88</u> | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | PRIORITY | | |
| *** 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 | | | SPECIAL INSTRUCTIONS N/A | | |
| Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | Hold Time | | |

| Sample No. | Filter | * | Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|---|-------------|------|--------------------|--|--------------|--------------|
| B32RW/4 | N | W | OCT 23 2015 | 1323 | 1x500-mL P | 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 02 | 48 Hours | Cool <=6C |

October 30, 2015

rose
w catlab

| | | | | | | | | | |
|-----------------|--------------------|-------|------|-------------|-------------|--------------------|-------|------|-------------|
| Relinquished By | D.L. Floyd/CHPRC | Print | Sign | Date/Time | Received By | F.M. Hancock/CHPRC | Print | Sign | Date/Time |
| Relinquished By | F.M. Hancock/CHPRC | | | OCT 23 2015 | Received By | J. Bock, TARL | | | OCT 23 2015 |
| Relinquished By | | | | OCT 23 2015 | Received By | | | | OCT 23 2015 |
| Relinquished By | | | | | Received By | | | | |
| Relinquished By | | | | | Received By | | | | |

| Matrix * | |
|----------|----------------|
| S | = Soil |
| SE | = Sediment |
| SO | = Solid |
| SL | = Sludge |
| W | = Water |
| O | = Oil |
| A | = Air |
| DS | = Dism Solids |
| DL | = Dism Liquids |
| T | = Tissue |
| WT | = Wipe |
| L | = Liquid |
| V | = Vegetation |
| X | = Other |

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-338
Page 1 of 1

| | | |
|--|---|---|
| Collector CHRIS FULTON CHPRC | Contact/Requester Karen Waters-Husted | Telephone No. 509-376-4650 |
| SAF No. S16-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code 300071 |
| Project Title SURV, OCTOBER 2015 | Logbook No. HNF-N-506 80/6 | Ice Chest No. N/A |
| Shipped To (Lab) TestAmerica Incorporated, Richland | Method of Shipment GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. N/A |
| Protocol SURV | Priority: 30 Days | Offsite Property No. N/A |
| 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 | | |
| Sample No. B32NY7 | Filter N | Date W OCT 23 2015 |
| | * 308 | Time 1500 |
| | No/Type Container 1x500-ml P | Sample Analysis 300.0_ANIONS_IC: COMMON |
| | Holding Time 48 Hours | Preservative Cool <=6C |

October 30, 2015

#1286
W 03496

| | | | | | | | |
|--|----------|--------------------------------------|---|-----------|----------|--------------------------------------|----------|
| Relinquished By CHRIS FULTON CHPRC | Sign | Date/Time OCT 23 2015 1415 | Received By L.D. Wall CHPRC | Print | Sign | Date/Time OCT 23 2015 1415 | Matrix * |
| Relinquished By L.D. Wall CHPRC | Sign | Date/Time OCT 23 2015 1500 | Received By L.D. Wall CHPRC | Print | Sign | Date/Time OCT 23 2015 1500 | Matrix * |
| Relinquished By L.D. Wall CHPRC | Sign | Date/Time OCT 23 2015 1500 | Received By L.D. Wall CHPRC | Print | Sign | Date/Time OCT 23 2015 1500 | Matrix * |

| | | | | | |
|--|------------------------------------|--------------------|---|-----------------------------|-------------------------|
| Collector | CHRIS FULTON CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 <i>SD / Oct 7</i> | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** 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 | | | Hold Time | | |
| | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |
| | | | From chemically injected well. No preservation added. Preservation causes bottles to break. | | |
| Sample No. | B32NY0 | Filter | N | Date | 10-23-15 |
| | | * Time | 16:10:23:15 | No/Type Container | 1x500-ml P |
| | | Date | 10-23-15 | Sample Analysis | 300.0_ANIONS_IC: COMMON |
| | | | | Holding Time | 48 Hours |
| | | | | Preservative | Cool <=6C |

October 30, 2015

#1206
WCO1496

| | | | | | | | | | | | | | | | | | |
|----------------|--------------|-------|--|------|--|-----------|------------------|-------------|---------------|-------|--|------|--|-----------|------------------|----------|--|
| Reinquished By | CHRIS FULTON | Print | | Sign | | Date/Time | OCT 23 2015 1415 | Received By | LD. WELLS | Print | | Sign | | Date/Time | OCT 23 2015 1415 | Matrix * | |
| Reinquished By | LD. WELLS | Print | | Sign | | Date/Time | OCT 23 2015 1500 | Received By | J. Beck, TAPL | Print | | Sign | | Date/Time | OCT 23 2015 1500 | Matrix * | |
| Reinquished By | LD. WELLS | Print | | Sign | | Date/Time | OCT 23 2015 1500 | Received By | | Print | | Sign | | Date/Time | | Matrix * | |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-165
Page 1 of 1

| | | | | | | | | |
|--|------------------------------------|---|-----------------------------|---------------------|-------------------|---|--------------|--------------|
| Collector | KC. Patterson/CHPRC | | Contact/Requester | Karen Waters-Husted | | Telephone No. | 509-376-4650 | |
| SAF No. | S16-010 | | Sampling Origin | Hanford Site | | Purchase Order/Charge Code | 300071 | |
| Project Title | SURV, OCTOBER 2015 | | Logbook No. | HNF-N-506 81 / 1 | | Ice Chest No. | N/A | |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | | Method of Shipment | GOVERNMENT VEHICLE | | Bill of Lading/Air Bill No. | N/A | |
| Protocol | SURV | | Priority: | 30 Days | | Offsite Property No. | N/A | |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | | Hold Time | | |
| *** 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 | | | N/A | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |
| Sample No. | Filter | * | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
| B32NK5 | N | | OCT 23 2015 | 1400 | 1x500-mL P | 300.0_ANIONS_IC: COMMON | 48 Hours | Cool <=6C |

October 30, 2015

#1206
WCO496

| | | | | | | | | |
|---------------------------------|-------|--|------------------|-----------------|-------|-----------|------------------|---|
| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time | Matrix * |
| K.C. Patterson/CHPRC | | | OCT 23 2015 1401 | L.D. Wall/CHPRC | | | OCT 23 2015 1421 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air |
| Relinquished By | | | Date/Time | Received By | | | Date/Time | DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other |
| L.D. Wall/CHPRC | | | OCT 23 2015 1500 | J. Bock/TARL | | | OCT 23 2015 1500 | |
| Relinquished By | | | Date/Time | Received By | | | Date/Time | |
| | | | | | | | | |
| Relinquished By | | | Date/Time | Received By | | | Date/Time | |
| | | | | | | | | |
| FINAL SAMPLE DISPOSITION | | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | | Disposed By | | Date/Time | | |



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

S16-010-308

Page 1 of 1

| | | |
|--|--|---|
| Collector K.C. Patterson/CHPRC | Contract/Requester Karen Waters-Husted | Telephone No. 509-376-4650 |
| SAF No. S16-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code 300071 |
| Project Title SURV, OCTOBER 2015 | Logbook No. HNF-N-506 21 / 1 | Ice Chest No. N/A |
| Shipped To (Lab) TestAmerica Incorporated, Richland | Method of Shipment GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. N/A |
| Protocol SURV | Priority: 30 Days PRIORITY | Offsite Property No. N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| *** 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 | | SPECIAL INSTRUCTIONS N/A |
| Sample No. B32NL1 | Filter N | Date OCT 23 2015 |
| | Time 1232 | No./Type Container 1x500-ml P |
| | | Sample Analysis 300.0_ANIONS_IC: COMMON |
| | | Holding Time 48 Hours |
| | | Preservative Cool <=6C |

October 30, 2015

#1206
w/coolant

| | | | | | | | |
|--|-----------|----------|--------------------------------------|---------------------------------------|-----------|----------|--------------------------------------|
| Relinquished By K.C. Patterson/CHPRC | Print | Sign | Date/Time OCT 23 2015 1421 | Received By L.D. Wall CHPRC | Print | Sign | Date/Time OCT 23 2015 1421 |
| Relinquished By L.D. Wall CHPRC | Print | Sign | Date/Time OCT 23 2015 1500 | Received By J. Bock, TARI | Print | Sign | Date/Time OCT 23 2015 1500 |
| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time |

| | | | |
|----|------------|----|----------------|
| S | = Soil | DS | = Damm Solids |
| SE | = Sediment | DL | = Damm Liquids |
| SO | = Solid | T | = Tissue |
| SL | = Sludge | WI | = Wipe |
| W | = Water | L | = Liquid |
| O | = Oil | V | = Vegetation |
| A | = Air | X | = Other |

| | | | |
|--------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|--------------------------|--|-------------|-----------|

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

S16-010-312

Page 1 of 1

| | | |
|---|--|--|
| Collector CHRIS FULTON CHPRC | Contact/Requester Karen Waters-Husted | Telephone No. 509-376-4650 |
| SAF No. S16-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code 300071 |
| Project Title SURY, OCTOBER 2015 | Logbook No. HNF-N-506 80/10 | Ice Chest No. N/A |
| Shipped To (Lab) TestAmerica Incorporated, Richland | Method of Shipment GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. N/A |
| Protocol SURY | Priority: 30 Days | Offsite Property No. N/A |
| 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 | | SPECIAL INSTRUCTIONS N/A |
| Sample No. B32NM3 | Filter N | Date OCT 23 2015 |
| | * W | Time 0917 |
| | No./Type Container 1x500-ml P | Sample Analysis 300.0_ANIONS_IC: COMMON |
| | Sample Analysis N/A | Hold Time 48 Hours |
| | Preservative Cool <=6C | |

October 30, 2015

#1206
WCO496

| | | | | | | | | |
|--|--|------|-------------------------------|---------------------------------|-----------|------|-------------------------------|----------|
| Relinquished By CHRIS FULTON CHPRC | Print | Sign | Date/Time OCT 23 2015 1106 | Received By LD Wall CHPRC | Print | Sign | Date/Time OCT 23 2015 1106 | Matrix * |
| Relinquished By LD Wall CHPRC | Print | Sign | Date/Time OCT 23 2015 1500 | Received By J. Bock, TARL | Print | Sign | Date/Time OCT 23 2015 1500 | Matrix * |
| Relinquished By | | | Date/Time | Received By | | | Date/Time | Matrix * |
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | | | Disposed By | | | Date/Time | |



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
S16-010-340

Page 1 of 1

| | | |
|---|---|---|
| Collector CHRIS FULTON CHPRC | Contact/Requester Karen Waters-Husted | Telephone No. 509-376-4650 |
| SAF No. S16-010 | Sampling Origin Hanford Site | Purchase Order/Charge Code 300071 |
| Project Title SURV, OCTOBER 2015 | Logbook No. HNF-N-506 8016 | Ice Chest No. N/A |
| Shipped To (Lab) TestAmerica Incorporated, Richland | Method of Shipment GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. N/A |
| Protocol SURV | Priority: 30 Days PRIORITY | Offsite Property No. N/A |

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

| | | | | | | | |
|-----------------------------|--------------------|----------------------------|---------------------|--|---|---------------------------------|-------------------------------------|
| Sample No. B32P03 | Filter N | Date WCT 23 2015 | Time 1052 | No/Type Container 1x500-mL P | Sample Analysis 300.0_ANIONS_IC: COMMON | Holding Time 48 Hours | Preservative Cool <=6C |
|-----------------------------|--------------------|----------------------------|---------------------|--|---|---------------------------------|-------------------------------------|

SPECIAL INSTRUCTIONS Hold Time From chemically injected well. No preservation added. Preservation causes bottles to break. Total Activity Exemption: Yes No

October 30, 2015

#1206
WCC0496

| | | | | | | | |
|--|----------|--------------------------------------|--|-----------|--------------------------------------|--------------------------------------|----------|
| Relinquished By CHRIS FULTON CHPRC | Sign | Date/Time OCT 23 2015 1106 | Received By LD. WALL CHPRC | Print | Sign | Date/Time OCT 23 2015 1106 | Matrix * |
| Relinquished By LD. WALL CHPRC | Sign | Date/Time OCT 23 2015 1500 | Received By J. BOCK, TARRL | Sign | Date/Time OCT 23 2015 1500 | | |
| Relinquished By | Sign | Date/Time | Received By | Sign | Date/Time | | |

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) _____

PRINTED ON 9/30/2015 FSR ID = FSR7056 A-6004-842 (REV 2)



CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-613
Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|---|-----------------------------|--------------------|
| Collector | S.W. King/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURY, OCTOBER 2015 | Logbook No. | HNF-N-506777 / 81 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURY | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | PRIORITY | | |
| *** 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 | | | SPECIAL INSTRUCTIONS | | |
| | | | Hold Time | | |
| | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |
| Sample No. | Filter | * | Date | Time | No./Type Container |
| B32Y51 | N | W | OCT 23 2015 | 0700 | 1x500-mL P |
| | | | Sample Analysis | | |
| | | | 300.0_ANIONS_IC: COMMON | | |
| | | | Holding Time | | |
| | | | 48 Hours | | |
| | | | Preservative | | |
| | | | Cool <=6C | | |

October 30, 2015

#1206
W 00496

| | | | | | | | | | |
|--------------------------|--|-------|------|------------------|---------------|--------------------|-----------|------------------|---|
| Relinquished By | S.W. King/CHPRC | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time | Matrix * |
| Relinquished By | <i>[Signature]</i> | | | OCT 23 2015 1135 | LD Wall | <i>[Signature]</i> | | OCT 23 2015 1135 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air |
| Relinquished By | LD Wall | | | OCT 23 2015 1500 | LD Wall | <i>[Signature]</i> | | OCT 23 2015 1500 | DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other |
| Relinquished By | | | | | J. Brock TARR | | | OCT 23 2015 1500 | |
| Relinquished By | | | | | | | | | |
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | | | | Received By | | Date/Time | | |
| | | | | | | | | | |



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

S16-010-352

Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|---|-----------------------------|-------------------------|
| Collector | S.W. King/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 <u>77/81</u> | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | PRIORITY | | |
| *** 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 | | | SPECIAL INSTRUCTIONS | | |
| | | | Hold Time | | |
| | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |
| Sample No. | Filter | Date | Time | No./Type Container | Sample Analysis |
| B32P39 | N | <u>OCT 23 2015</u> | <u>0835</u> | 1x500-mL P | 300.0_ANIONS_IC: COMMON |
| | | | | | Holding Time |
| | | | | | 48 Hours |
| | | | | | Preservative |
| | | | | | Cool <=6C |

October 30, 2015

#1206
WCOFTR

| | | | | | | | | | | | | | | | |
|-----------------|--------------------|-------|-----------------|------|--|-----------|------------------|-------------|--------------------|-------|---------------|------|--|-----------|------------------|
| Relinquished By | <i>[Signature]</i> | Print | S.W. King/CHPRC | Sign | | Date/Time | OCT 23 2015 1135 | Received By | <i>[Signature]</i> | Print | L.D. Wall | Sign | | Date/Time | OCT 23 2015 1135 |
| Relinquished By | <i>[Signature]</i> | Print | L.D. Wall | Sign | | Date/Time | OCT 23 2015 1500 | Received By | <i>[Signature]</i> | Print | J. Bock, TARL | Sign | | Date/Time | OCT 23 2015 1500 |
| Relinquished By | <i>[Signature]</i> | Print | L.D. Wall | Sign | | Date/Time | OCT 23 2015 1500 | Received By | <i>[Signature]</i> | Print | J. Bock, TARL | Sign | | Date/Time | OCT 23 2015 1500 |

- Matrix *
- S = Soil
 - SE = Sediment
 - SO = Solid
 - SL = Sludge
 - W = Water
 - O = Oil
 - A = Air
 - DS = Drum Solids
 - DL = Drum Liquids
 - T = Tissue
 - WI = Wipe
 - L = Liquid
 - V = Vegetation
 - X = Other

| | | | |
|--------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|--------------------------|--|-------------|-----------|

PRINTED ON 9/22/2015

RSR ID = FSR5726

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-010-612

Page 1 of 1

| | | | | | | | | | |
|--|------------------------------------|---|-----------------------------|---------------------|-------------------|---|-------------------------|--------------|-----------|
| Collector | S.W. King/CHPRC | | Contact/Requester | Karen Waters-Husted | | Telephone No. | 509-376-4650 | | |
| SAF No. | S16-010 | | Sampling Origin | Hanford Site | | Purchase Order/Charge Code | 300071 | | |
| Project Title | SURY, OCTOBER 2015 | | Logbook No. | HNF-N-506771 / 81 | | Ice Chest No. | N/A | | |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | | Method of Shipment | GOVERNMENT VEHICLE | | Bill of Lading/Air Bill No. | N/A | | |
| Protocol | SURV | | Priority: | 30 Days | | Offsite Property No. | N/A | | |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | | Hold Time | | | |
| *** 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 | | | N/A | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | |
| Sample No. | Filter | * | Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative | |
| B32Y50 | N | | W | OCT 23 2015 | 0915 | 1x500-rnl P | 300.0_ANIONS_IC: COMMON | 48 Hours | Cool <=6C |

October 30, 2015

#note

WCO496

| | | | | | | | | |
|---------------------------------|-------|--|------------------|---------------|-------|-----------|------------------|---|
| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time | Matrix * |
| S.W. King/CHPRC | | | OCT 23 2015 1135 | LD. Wall | | | OCT 23 2015 1135 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air |
| Relinquished By | Print | Sign | Date/Time | Received By | Print | Sign | Date/Time | DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other |
| LD. Wall | | | OCT 23 2015 1500 | J. Bock, TARL | | | OCT 23 2015 1500 | |
| Relinquished By | | | Date/Time | Received By | | | Date/Time | |
| | | | | | | | | |
| Relinquished By | | | Date/Time | Received By | | | Date/Time | |
| | | | | | | | | |
| FINAL SAMPLE DISPOSITION | | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | | Disposed By | | Date/Time | | |

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

S16-010-631

Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|-----------------------------|-----------------------------|--------------------------|
| Collector | S.W. King/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 77/81 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** 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 | | | N/A | | |
| Sample No. | B32Y68 | Filter | N | Date | OCT 23 2015 |
| | | * Date | | Time | 1:50 |
| | | No/Type Container | 1x500-ml P | Sample Analysis | 3000_0_ANIONS_IC: COMMON |
| | | Sample Analysis | | Holding Time | 48 Hours |
| | | Preservative | | | Cool <=6C |

October 30, 2015

#1206
W00496

| | | | | | | | | |
|---------------------------------|-----------------|--|------------------|-------------|-----------------|------------|------------------|--|
| Relinquished By | S.W. King/CHPRC | Print Sign | Date/Time | Received By | L.D. Wall CHPRC | Print Sign | Date/Time | Matrix * |
| Relinquished By | L.D. Wall | Print Sign | OCT 23 2015 1:50 | Received By | J. Beck TABI | Print Sign | OCT 23 2015 1:50 | S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air |
| Relinquished By | | Print Sign | | Received By | | Print Sign | | DS = Drum Solids DL = Droma Liquids T = Tissue WI = Wine L = Liquid V = Vegetation X = Other |
| Relinquished By | | Print Sign | | Received By | | Print Sign | | |
| FINAL SAMPLE DISPOSITION | | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | | Disposed By | | Date/Time | | |

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
S16-010-632
Page 1 of 1

| | | | | | |
|--|------------------------------------|--------------------|---|-----------------------------|--------------|
| Collector | S.W. King/CHPRC | Contact/Requester | Karen Waters-Husted | Telephone No. | 509-376-4650 |
| SAF No. | S16-010 | Sampling Origin | Hanford Site | Purchase Order/Charge Code | 300071 |
| Project Title | SURV, OCTOBER 2015 | Logbook No. | HNF-N-506 77/81 | Ice Chest No. | N/A |
| Shipped To (Lab) | TestAmerica Incorporated, Richland | Method of Shipment | GOVERNMENT VEHICLE | Bill of Lading/Air Bill No. | N/A |
| Protocol | SURV | Priority: | 30 Days | Offsite Property No. | N/A |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | SPECIAL INSTRUCTIONS | | |
| *** 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 | | | Hold Time | | |
| | | | Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Sample No. | Filter | * Date | Time | No/Type Container | Sample Analysis | Holding Time | Preservative |
|------------|--------|-------------|------|-------------------|-------------------------|--------------|--------------|
| B32Y69 | N | OCT 23 2015 | 1115 | 1x500-ml P | 300.0_ANIONS_IC: COMMON | 48 Hours | Cool <=6C |

October 30, 2015

#1206
WCO496

| | | | | | | | | |
|-----------------|-----------------------------|----------------------------|-------------------------------|-------------|-----------------------------|----------------------------|-------------------------------|--|
| Relinquished By | Print S.W. King/CHPRC | Sign <i>[Signature]</i> | Date/Time OCT 23 2015 1135 | Received By | Print L.D. Wall CHPRC | Sign <i>[Signature]</i> | Date/Time OCT 23 2015 1135 | Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other |
| Relinquished By | Print L.D. Wall CHPRC | Sign <i>[Signature]</i> | Date/Time OCT 23 2015 1500 | Received By | Print L.D. Wall CHPRC | Sign <i>[Signature]</i> | Date/Time OCT 23 2015 1500 | |
| Relinquished By | | | Date/Time | Received By | | | Date/Time | |

| | | | |
|--------------------------|--|-------------|-----------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time |
|--------------------------|--|-------------|-----------|

October 30, 2015
Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Client Sample ID: B32R42

Lab Sample ID: 300-1206-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.030 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32R40

Lab Sample ID: 300-1206-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.029 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32R36

Lab Sample ID: 300-1206-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0079 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32R33

Lab Sample ID: 300-1206-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0079 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32P73

Lab Sample ID: 300-1206-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.023 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32P74

Lab Sample ID: 300-1206-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.023 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32P70

Lab Sample ID: 300-1206-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0097 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32P66

Lab Sample ID: 300-1206-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0087 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32P42

Lab Sample ID: 300-1206-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.018 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32P40

Lab Sample ID: 300-1206-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.016 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32P65

Lab Sample ID: 300-1206-11

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

October 30, 2015
Detection Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32P69

Lab Sample ID: 300-1206-12

No Detections.

Client Sample ID: B32T10

Lab Sample ID: 300-1206-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0023 | B | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32T09

Lab Sample ID: 300-1206-14

No Detections.

Client Sample ID: B32RX6

Lab Sample ID: 300-1206-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.012 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32RY0

Lab Sample ID: 300-1206-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.011 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32RX7

Lab Sample ID: 300-1206-17

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.011 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32RY1

Lab Sample ID: 300-1206-18

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.013 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32NM4

Lab Sample ID: 300-1206-19

No Detections.

Client Sample ID: B32NM6

Lab Sample ID: 300-1206-20

No Detections.

Client Sample ID: B32P05

Lab Sample ID: 300-1206-21

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0041 | M N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32P07

Lab Sample ID: 300-1206-22

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0059 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32RT4

Lab Sample ID: 300-1206-23

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

October 30, 2015
Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Client Sample ID: B32RT4 (Continued)

Lab Sample ID: 300-1206-23

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0081 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32RT3

Lab Sample ID: 300-1206-24

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0079 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32RT7

Lab Sample ID: 300-1206-25

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0087 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32RT9

Lab Sample ID: 300-1206-26

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0089 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32RT8

Lab Sample ID: 300-1206-27

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0087 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32RT6

Lab Sample ID: 300-1206-28

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0087 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32R64

Lab Sample ID: 300-1206-29

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.010 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32R63

Lab Sample ID: 300-1206-30

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0096 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32RV9

Lab Sample ID: 300-1206-31

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.017 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32RW1

Lab Sample ID: 300-1206-32

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.017 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32RW7

Lab Sample ID: 300-1206-33

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.017 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

October 30, 2015
Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Client Sample ID: B32RW7 (Continued)

Lab Sample ID: 300-1206-33

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.014 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32RW5

Lab Sample ID: 300-1206-34

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.014 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32P01

Lab Sample ID: 300-1206-35

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0076 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32NY9

Lab Sample ID: 300-1206-36

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0058 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32NW9

Lab Sample ID: 300-1206-37

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0076 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32NX1

Lab Sample ID: 300-1206-38

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0078 | N | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32NY4

Lab Sample ID: 300-1206-39

No Detections.

Client Sample ID: B32NY2

Lab Sample ID: 300-1206-40

No Detections.

Client Sample ID: B32NK8

Lab Sample ID: 300-1206-41

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.015 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32NK6

Lab Sample ID: 300-1206-42

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.014 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32NL2

Lab Sample ID: 300-1206-43

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.0091 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

October 30, 2015
Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Client Sample ID: B32NL4

Lab Sample ID: 300-1206-44

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|--------|------|---------|---|--------|-----------|
| Cr (VI) | 0.011 | | 0.0040 | 0.0015 | mg/L | 1 | | 7196A | Total/NA |

Client Sample ID: B32Y84

Lab Sample ID: 300-1206-45

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 9.5 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 2.3 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |
| Fluoride | 0.47 | D | 0.10 | 0.050 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 53 | D | 0.50 | 0.25 | mg/L | 2 | | 300.0 | Total/NA |
| Bromide | 0.17 | B D | 0.25 | 0.13 | mg/L | 2 | | 300.0 | Total/NA |

Client Sample ID: B32RW4

Lab Sample ID: 300-1206-46

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 18 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 5.4 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |
| Fluoride | 0.34 | D | 0.10 | 0.050 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 72 | D | 0.50 | 0.25 | mg/L | 2 | | 300.0 | Total/NA |
| Bromide | 0.22 | B D | 0.25 | 0.13 | mg/L | 2 | | 300.0 | Total/NA |

Client Sample ID: B32NW7

Lab Sample ID: 300-1206-47

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 20 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 0.84 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrite as N | 0.10 | D | 0.076 | 0.038 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 62 | D | 0.50 | 0.25 | mg/L | 2 | | 300.0 | Total/NA |

Client Sample ID: B32NY7

Lab Sample ID: 300-1206-48

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 21 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 1.6 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |
| Fluoride | 0.31 | D | 0.10 | 0.050 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 90 | D | 0.50 | 0.25 | mg/L | 2 | | 300.0 | Total/NA |

Client Sample ID: B32NY0

Lab Sample ID: 300-1206-49

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 19 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 6.9 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |
| Fluoride | 0.19 | D | 0.10 | 0.050 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrite as N | 0.064 | B D | 0.076 | 0.038 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 180 | D | 1.3 | 0.63 | mg/L | 5 | | 300.0 | Total/NA |

Client Sample ID: B32NK5

Lab Sample ID: 300-1206-50

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 15 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 4.6 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

October 30, 2015
Detection Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32NK5 (Continued)

Lab Sample ID: 300-1206-50

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-------|------|---------|---|--------|-----------|
| Fluoride | 0.21 | D | 0.10 | 0.050 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 66 | D | 0.50 | 0.25 | mg/L | 2 | | 300.0 | Total/NA |

Client Sample ID: B32NL1

Lab Sample ID: 300-1206-51

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 19 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 5.3 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |
| Fluoride | 0.22 | D | 0.10 | 0.050 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 76 | D | 0.50 | 0.25 | mg/L | 2 | | 300.0 | Total/NA |

Client Sample ID: B32RV1

Lab Sample ID: 300-1206-52

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 21 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 8.1 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |
| Fluoride | 0.64 | D | 0.10 | 0.050 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 73 | D | 0.50 | 0.25 | mg/L | 2 | | 300.0 | Total/NA |

Client Sample ID: B32NM3

Lab Sample ID: 300-1206-53

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 18 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 0.092 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |
| Fluoride | 0.21 | D | 0.10 | 0.050 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrite as N | 0.072 | B D | 0.076 | 0.038 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 40 | D | 0.50 | 0.25 | mg/L | 2 | | 300.0 | Total/NA |

Client Sample ID: B32P03

Lab Sample ID: 300-1206-54

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 20 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 0.40 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |
| Fluoride | 0.11 | D | 0.10 | 0.050 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 46 | D | 0.50 | 0.25 | mg/L | 2 | | 300.0 | Total/NA |

Client Sample ID: B32Y51

Lab Sample ID: 300-1206-55

No Detections.

Client Sample ID: B32P39

Lab Sample ID: 300-1206-56

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 17 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 6.6 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |
| Fluoride | 0.15 | D | 0.10 | 0.050 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 200 | D | 1.3 | 0.63 | mg/L | 5 | | 300.0 | Total/NA |

Client Sample ID: B32Y50

Lab Sample ID: 300-1206-57

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

October 30, 2015
Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Client Sample ID: B32Y50 (Continued)

Lab Sample ID: 300-1206-57

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 19 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 6.5 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |
| Fluoride | 0.15 | D | 0.10 | 0.050 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 200 | D | 1.3 | 0.63 | mg/L | 5 | | 300.0 | Total/NA |

Client Sample ID: B32Y68

Lab Sample ID: 300-1206-58

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 2.9 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 0.47 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |
| Fluoride | 0.30 | D | 0.10 | 0.050 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 39 | D | 0.50 | 0.25 | mg/L | 2 | | 300.0 | Total/NA |

Client Sample ID: B32Y69

Lab Sample ID: 300-1206-59

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|-------|------|---------|---|--------|-----------|
| Chloride | 3.1 | D | 0.40 | 0.20 | mg/L | 2 | | 300.0 | Total/NA |
| Nitrate as N | 1.2 | D | 0.056 | 0.028 | mg/L | 2 | | 300.0 | Total/NA |
| Fluoride | 0.13 | D | 0.10 | 0.050 | mg/L | 2 | | 300.0 | Total/NA |
| Sulfate | 19 | D | 0.50 | 0.25 | mg/L | 2 | | 300.0 | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

October 30, 2015
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32R42
 Date Collected: 10/23/15 11:15
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-1
 Matrix: Water

| General Chemistry | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Cr (VI) | 0.030 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:52 | 1 |

Client Sample ID: B32R40
 Date Collected: 10/23/15 11:15
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-2
 Matrix: Water

| General Chemistry | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Cr (VI) | 0.029 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:52 | 1 |

Client Sample ID: B32R36
 Date Collected: 10/23/15 10:50
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-3
 Matrix: Water

| General Chemistry | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Cr (VI) | 0.0079 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:52 | 1 |

Client Sample ID: B32R33
 Date Collected: 10/23/15 10:50
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-4
 Matrix: Water

| General Chemistry | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Cr (VI) | 0.0079 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:53 | 1 |

Client Sample ID: B32P73
 Date Collected: 10/23/15 10:00
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-5
 Matrix: Water

| General Chemistry | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Cr (VI) | 0.023 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:53 | 1 |

Client Sample ID: B32P74
 Date Collected: 10/23/15 10:00
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-6
 Matrix: Water

| General Chemistry | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Cr (VI) | 0.023 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:53 | 1 |

Client Sample ID: B32P70
 Date Collected: 10/23/15 09:15
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-7
 Matrix: Water

| General Chemistry | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Cr (VI) | 0.0097 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:57 | 1 |

TestAmerica Richland

October 30, 2015
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Client Sample ID: B32P66
Date Collected: 10/23/15 09:15
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-8
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0087 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:57 | 1 |

Client Sample ID: B32P42
Date Collected: 10/23/15 08:35
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-9
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.018 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:57 | 1 |

Client Sample ID: B32P40
Date Collected: 10/23/15 08:35
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-10
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.016 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:58 | 1 |

Client Sample ID: B32P65
Date Collected: 10/23/15 07:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-11
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0015 | U | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:58 | 1 |

Client Sample ID: B32P69
Date Collected: 10/23/15 07:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-12
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0015 | U | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:58 | 1 |

Client Sample ID: B32T10
Date Collected: 10/23/15 11:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-13
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0023 | B | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:59 | 1 |

Client Sample ID: B32T09
Date Collected: 10/23/15 11:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-14
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0015 | U | 0.0040 | 0.0015 | mg/L | | | 10/23/15 18:01 | 1 |

TestAmerica Richland

October 30, 2015
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Client Sample ID: B32RX6
Date Collected: 10/23/15 10:19
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-15
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.012 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 18:02 | 1 |

Client Sample ID: B32RY0
Date Collected: 10/23/15 10:19
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-16
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.011 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 18:02 | 1 |

Client Sample ID: B32RX7
Date Collected: 10/23/15 10:19
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-17
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.011 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 18:03 | 1 |

Client Sample ID: B32RY1
Date Collected: 10/23/15 10:19
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-18
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.013 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 18:03 | 1 |

Client Sample ID: B32NM4
Date Collected: 10/23/15 09:17
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-19
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0015 | U | 0.0040 | 0.0015 | mg/L | | | 10/23/15 18:03 | 1 |

Client Sample ID: B32NM6
Date Collected: 10/23/15 09:17
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-20
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0015 | U | 0.0040 | 0.0015 | mg/L | | | 10/23/15 18:06 | 1 |

Client Sample ID: B32P05
Date Collected: 10/23/15 10:52
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-21
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0041 | M N | 0.0040 | 0.0015 | mg/L | | | 10/23/15 18:07 | 1 |

TestAmerica Richland

October 30, 2015
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32P07
 Date Collected: 10/23/15 10:52
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-22
 Matrix: Water

| General Chemistry | | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Cr (VI) | 0.0059 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:08 | 1 | |

Client Sample ID: B32RT4
 Date Collected: 10/23/15 09:22
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-23
 Matrix: Water

| General Chemistry | | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Cr (VI) | 0.0081 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:11 | 1 | |

Client Sample ID: B32RT3
 Date Collected: 10/23/15 09:22
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-24
 Matrix: Water

| General Chemistry | | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Cr (VI) | 0.0079 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:11 | 1 | |

Client Sample ID: B32RT7
 Date Collected: 10/23/15 09:56
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-25
 Matrix: Water

| General Chemistry | | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Cr (VI) | 0.0087 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:12 | 1 | |

Client Sample ID: B32RT9
 Date Collected: 10/23/15 09:56
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-26
 Matrix: Water

| General Chemistry | | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Cr (VI) | 0.0089 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:12 | 1 | |

Client Sample ID: B32RT8
 Date Collected: 10/23/15 09:56
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-27
 Matrix: Water

| General Chemistry | | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Cr (VI) | 0.0087 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:12 | 1 | |

Client Sample ID: B32RT6
 Date Collected: 10/23/15 09:56
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-28
 Matrix: Water

| General Chemistry | | | | | | | | | | |
|-------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Cr (VI) | 0.0087 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:13 | 1 | |

October 30, 2015
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32R64
 Date Collected: 10/23/15 12:10
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-29
 Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.010 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:13 | 1 |

Client Sample ID: B32R63
 Date Collected: 10/23/15 12:10
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-30
 Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0096 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:16 | 1 |

Client Sample ID: B32RV9
 Date Collected: 10/23/15 12:39
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-31
 Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.017 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:16 | 1 |

Client Sample ID: B32RW1
 Date Collected: 10/23/15 12:39
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-32
 Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.017 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:16 | 1 |

Client Sample ID: B32RW7
 Date Collected: 10/23/15 13:23
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-33
 Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.014 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:17 | 1 |

Client Sample ID: B32RW5
 Date Collected: 10/23/15 13:23
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-34
 Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.014 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:17 | 1 |

Client Sample ID: B32P01
 Date Collected: 10/23/15 13:08
 Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-35
 Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0076 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:18 | 1 |

TestAmerica Richland

October 30, 2015
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Client Sample ID: B32NY9
Date Collected: 10/23/15 13:08
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-36
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0058 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:20 | 1 |

Client Sample ID: B32NW9
Date Collected: 10/23/15 12:10
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-37
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0076 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:21 | 1 |

Client Sample ID: B32NX1
Date Collected: 10/23/15 12:10
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-38
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0078 | N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:21 | 1 |

Client Sample ID: B32NY4
Date Collected: 10/23/15 13:50
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-39
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0015 | U N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:21 | 1 |

Client Sample ID: B32NY2
Date Collected: 10/23/15 13:50
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-40
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0015 | U N | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:22 | 1 |

Client Sample ID: B32NK8
Date Collected: 10/23/15 14:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-41
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.015 | | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:26 | 1 |

Client Sample ID: B32NK6
Date Collected: 10/23/15 14:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-42
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.014 | | 0.0040 | 0.0015 | mg/L | - | | 10/23/15 18:26 | 1 |

TestAmerica Richland

October 30, 2015
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Client Sample ID: B32NL2
Date Collected: 10/23/15 12:32
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-43
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0091 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 18:27 | 1 |

Client Sample ID: B32NL4
Date Collected: 10/23/15 12:32
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-44
Matrix: Water

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.011 | | 0.0040 | 0.0015 | mg/L | | | 10/23/15 18:27 | 1 |

Client Sample ID: B32Y84
Date Collected: 10/23/15 12:39
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-45
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 9.5 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 18:31 | 2 |
| Nitrate as N | 2.3 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 18:31 | 2 |
| Fluoride | 0.47 | D | 0.10 | 0.050 | mg/L | | | 10/23/15 18:31 | 2 |
| Nitrite as N | 0.038 | U | 0.076 | 0.038 | mg/L | | | 10/23/15 18:31 | 2 |
| Orthophosphate as P | 0.082 | U | 0.16 | 0.082 | mg/L | | | 10/23/15 18:31 | 2 |
| Sulfate | 53 | D | 0.50 | 0.25 | mg/L | | | 10/23/15 18:31 | 2 |
| Bromide | 0.17 | B D | 0.25 | 0.13 | mg/L | | | 10/23/15 18:31 | 2 |

Client Sample ID: B32RW4
Date Collected: 10/23/15 13:23
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-46
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 18 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 19:16 | 2 |
| Nitrate as N | 5.4 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 19:16 | 2 |
| Fluoride | 0.34 | D | 0.10 | 0.050 | mg/L | | | 10/23/15 19:16 | 2 |
| Nitrite as N | 0.038 | U | 0.076 | 0.038 | mg/L | | | 10/23/15 19:16 | 2 |
| Orthophosphate as P | 0.082 | U | 0.16 | 0.082 | mg/L | | | 10/23/15 19:16 | 2 |
| Sulfate | 72 | D | 0.50 | 0.25 | mg/L | | | 10/23/15 19:16 | 2 |
| Bromide | 0.22 | B D | 0.25 | 0.13 | mg/L | | | 10/23/15 19:16 | 2 |

Client Sample ID: B32NW7
Date Collected: 10/23/15 12:10
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-47
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 20 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 19:31 | 2 |
| Nitrate as N | 0.84 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 19:31 | 2 |
| Fluoride | 0.050 | U | 0.10 | 0.050 | mg/L | | | 10/23/15 19:31 | 2 |
| Nitrite as N | 0.10 | D | 0.076 | 0.038 | mg/L | | | 10/23/15 19:31 | 2 |
| Sulfate | 62 | D | 0.50 | 0.25 | mg/L | | | 10/23/15 19:31 | 2 |

TestAmerica Richland

October 30, 2015
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32NY7
Date Collected: 10/23/15 13:08
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-48
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 21 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 19:46 | 2 |
| Nitrate as N | 1.6 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 19:46 | 2 |
| Fluoride | 0.31 | D | 0.10 | 0.050 | mg/L | | | 10/23/15 19:46 | 2 |
| Nitrite as N | 0.038 | U | 0.076 | 0.038 | mg/L | | | 10/23/15 19:46 | 2 |
| Sulfate | 90 | D | 0.50 | 0.25 | mg/L | | | 10/23/15 19:46 | 2 |

Client Sample ID: B32NY0
Date Collected: 10/23/15 13:50
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-49
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 19 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 20:02 | 2 |
| Nitrate as N | 6.9 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 20:02 | 2 |
| Fluoride | 0.19 | D | 0.10 | 0.050 | mg/L | | | 10/23/15 20:02 | 2 |
| Nitrite as N | 0.064 | B D | 0.076 | 0.038 | mg/L | | | 10/23/15 20:02 | 2 |
| Sulfate | 180 | D | 1.3 | 0.63 | mg/L | | | 10/24/15 01:18 | 5 |

Client Sample ID: B32NK5
Date Collected: 10/23/15 14:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-50
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 15 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 20:17 | 2 |
| Nitrate as N | 4.6 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 20:17 | 2 |
| Fluoride | 0.21 | D | 0.10 | 0.050 | mg/L | | | 10/23/15 20:17 | 2 |
| Nitrite as N | 0.038 | U | 0.076 | 0.038 | mg/L | | | 10/23/15 20:17 | 2 |
| Sulfate | 66 | D | 0.50 | 0.25 | mg/L | | | 10/23/15 20:17 | 2 |

Client Sample ID: B32NL1
Date Collected: 10/23/15 12:32
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-51
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 19 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 21:02 | 2 |
| Nitrate as N | 5.3 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 21:02 | 2 |
| Fluoride | 0.22 | D | 0.10 | 0.050 | mg/L | | | 10/23/15 21:02 | 2 |
| Nitrite as N | 0.038 | U | 0.076 | 0.038 | mg/L | | | 10/23/15 21:02 | 2 |
| Sulfate | 76 | D | 0.50 | 0.25 | mg/L | | | 10/23/15 21:02 | 2 |

Client Sample ID: B32RV1
Date Collected: 10/23/15 09:13
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-52
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 21 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 21:17 | 2 |
| Nitrate as N | 8.1 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 21:17 | 2 |

TestAmerica Richland

October 30, 2015
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Client Sample ID: B32RV1
Date Collected: 10/23/15 09:13
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-52
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.64 | D | 0.10 | 0.050 | mg/L | | | 10/23/15 21:17 | 2 |
| Nitrite as N | 0.038 | U | 0.076 | 0.038 | mg/L | | | 10/23/15 21:17 | 2 |
| Sulfate | 73 | D | 0.50 | 0.25 | mg/L | | | 10/23/15 21:17 | 2 |

Client Sample ID: B32NM3
Date Collected: 10/23/15 09:17
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-53
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 18 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 21:32 | 2 |
| Nitrate as N | 0.092 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 21:32 | 2 |
| Fluoride | 0.21 | D | 0.10 | 0.050 | mg/L | | | 10/23/15 21:32 | 2 |
| Nitrite as N | 0.072 | B D | 0.076 | 0.038 | mg/L | | | 10/23/15 21:32 | 2 |
| Sulfate | 40 | D | 0.50 | 0.25 | mg/L | | | 10/23/15 21:32 | 2 |

Client Sample ID: B32P03
Date Collected: 10/23/15 10:52
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-54
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 20 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 21:47 | 2 |
| Nitrate as N | 0.40 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 21:47 | 2 |
| Fluoride | 0.11 | D | 0.10 | 0.050 | mg/L | | | 10/23/15 21:47 | 2 |
| Nitrite as N | 0.038 | U | 0.076 | 0.038 | mg/L | | | 10/23/15 21:47 | 2 |
| Sulfate | 46 | D | 0.50 | 0.25 | mg/L | | | 10/23/15 21:47 | 2 |

Client Sample ID: B32Y51
Date Collected: 10/23/15 07:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-55
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 0.20 | U | 0.40 | 0.20 | mg/L | | | 10/23/15 22:02 | 2 |
| Nitrate as N | 0.028 | U | 0.056 | 0.028 | mg/L | | | 10/23/15 22:02 | 2 |
| Fluoride | 0.050 | U | 0.10 | 0.050 | mg/L | | | 10/23/15 22:02 | 2 |
| Nitrite as N | 0.038 | U | 0.076 | 0.038 | mg/L | | | 10/23/15 22:02 | 2 |
| Sulfate | 0.25 | U | 0.50 | 0.25 | mg/L | | | 10/23/15 22:02 | 2 |

Client Sample ID: B32P39
Date Collected: 10/23/15 08:35
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-56
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 17 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 22:17 | 2 |
| Nitrate as N | 6.6 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 22:17 | 2 |
| Fluoride | 0.15 | D | 0.10 | 0.050 | mg/L | | | 10/23/15 22:17 | 2 |
| Nitrite as N | 0.038 | U | 0.076 | 0.038 | mg/L | | | 10/23/15 22:17 | 2 |

TestAmerica Richland

October 30, 2015
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32P39
Date Collected: 10/23/15 08:35
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-56
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Sulfate | 200 | D | 1.3 | 0.63 | mg/L | | | 10/24/15 03:33 | 5 |

Client Sample ID: B32Y50
Date Collected: 10/23/15 09:15
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-57
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 19 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 22:32 | 2 |
| Nitrate as N | 6.5 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 22:32 | 2 |
| Fluoride | 0.15 | D | 0.10 | 0.050 | mg/L | | | 10/23/15 22:32 | 2 |
| Nitrite as N | 0.038 | U | 0.076 | 0.038 | mg/L | | | 10/23/15 22:32 | 2 |
| Sulfate | 200 | D | 1.3 | 0.63 | mg/L | | | 10/24/15 03:48 | 5 |

Client Sample ID: B32Y68
Date Collected: 10/23/15 10:50
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-58
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 2.9 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 22:47 | 2 |
| Nitrate as N | 0.47 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 22:47 | 2 |
| Fluoride | 0.30 | D | 0.10 | 0.050 | mg/L | | | 10/23/15 22:47 | 2 |
| Nitrite as N | 0.038 | U | 0.076 | 0.038 | mg/L | | | 10/23/15 22:47 | 2 |
| Sulfate | 39 | D | 0.50 | 0.25 | mg/L | | | 10/23/15 22:47 | 2 |

Client Sample ID: B32Y69
Date Collected: 10/23/15 11:15
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-59
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 3.1 | D | 0.40 | 0.20 | mg/L | | | 10/23/15 23:03 | 2 |
| Nitrate as N | 1.2 | D | 0.056 | 0.028 | mg/L | | | 10/23/15 23:03 | 2 |
| Fluoride | 0.13 | D | 0.10 | 0.050 | mg/L | | | 10/23/15 23:03 | 2 |
| Nitrite as N | 0.038 | U | 0.076 | 0.038 | mg/L | | | 10/23/15 23:03 | 2 |
| Sulfate | 19 | D | 0.50 | 0.25 | mg/L | | | 10/23/15 23:03 | 2 |

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-1621/12
Matrix: Water
Analysis Batch: 1621

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|-------|-------|------|---|----------|----------------|---------|
| Nitrate as N | 0.014 | U | 0.028 | 0.014 | mg/L | | | 10/23/15 18:01 | 1 |
| Nitrite as N | 0.019 | U | 0.038 | 0.019 | mg/L | | | 10/23/15 18:01 | 1 |
| Orthophosphate as P | 0.041 | U | 0.082 | 0.041 | mg/L | | | 10/23/15 18:01 | 1 |

Lab Sample ID: LCS 300-1621/13
Matrix: Water
Analysis Batch: 1621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|------|---|------|--------------|
| Nitrate as N | 2.26 | 2.40 | | mg/L | | 106 | 80 - 120 |
| Nitrite as N | 3.04 | 3.25 | | mg/L | | 107 | 80 - 120 |
| Orthophosphate as P | 6.53 | 6.75 | | mg/L | | 103 | 80 - 120 |

Lab Sample ID: 300-1206-45 MS
Matrix: Water
Analysis Batch: 1621

Client Sample ID: B32Y84
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Nitrate as N | 2.3 | D | 0.452 | 2.82 | D | mg/L | | 110 | 75 - 125 |
| Nitrite as N | 0.038 | U | 0.609 | 0.577 | D | mg/L | | 95 | 75 - 125 |
| Orthophosphate as P | 0.082 | U | 1.31 | 1.17 | D | mg/L | | 89 | 75 - 125 |

Lab Sample ID: 300-1206-45 DU
Matrix: Water
Analysis Batch: 1621

Client Sample ID: B32Y84
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Nitrate as N | 2.3 | D | 2.33 | D | mg/L | | 0.3 | 20 |
| Nitrite as N | 0.038 | U | 0.038 | U | mg/L | | NC | 20 |
| Orthophosphate as P | 0.082 | U | 0.082 | U | mg/L | | NC | 20 |

Lab Sample ID: MB 300-1622/12
Matrix: Water
Analysis Batch: 1622

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 0.10 | U | 0.20 | 0.10 | mg/L | | | 10/23/15 18:01 | 1 |
| Fluoride | 0.025 | U | 0.050 | 0.025 | mg/L | | | 10/23/15 18:01 | 1 |
| Sulfate | 0.13 | U | 0.25 | 0.13 | mg/L | | | 10/23/15 18:01 | 1 |
| Bromide | 0.063 | U | 0.13 | 0.063 | mg/L | | | 10/23/15 18:01 | 1 |

Lab Sample ID: LCS 300-1622/13
Matrix: Water
Analysis Batch: 1622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 16.0 | 16.8 | | mg/L | | 105 | 80 - 120 |
| Fluoride | 4.00 | 4.19 | | mg/L | | 105 | 80 - 120 |
| Sulfate | 20.0 | 21.1 | | mg/L | | 105 | 80 - 120 |

TestAmerica Richland

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 300-1622/13
Matrix: Water
Analysis Batch: 1622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Bromide | 10.0 | 10.6 | | mg/L | | 106 | 80 - 120 |

Lab Sample ID: 300-1206-45 MS
Matrix: Water
Analysis Batch: 1622

Client Sample ID: B32Y84
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 9.5 | D | 3.20 | 12.9 | D | mg/L | | 105 | 75 - 125 |
| Fluoride | 0.47 | D | 0.800 | 1.29 | D | mg/L | | 103 | 75 - 125 |
| Sulfate | 53 | D | 4.00 | 57.5 | D | mg/L | | 101 | 75 - 125 |
| Bromide | 0.17 | B D | 2.00 | 2.01 | D | mg/L | | 92 | 75 - 125 |

Lab Sample ID: 300-1206-45 DU
Matrix: Water
Analysis Batch: 1622

Client Sample ID: B32Y84
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Chloride | 9.5 | D | 9.56 | D | mg/L | | 0.2 | 20 |
| Fluoride | 0.47 | D | 0.468 | D | mg/L | | 0.1 | 20 |
| Sulfate | 53 | D | 53.5 | D | mg/L | | 0.2 | 20 |
| Bromide | 0.17 | B D | 0.172 | B D | mg/L | | 0.2 | 20 |

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-1669/3
Matrix: Water
Analysis Batch: 1669

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0015 | U | 0.0040 | 0.0015 | mg/L | | | 10/23/15 17:48 | 1 |

Lab Sample ID: MB 300-1669/31
Matrix: Water
Analysis Batch: 1669

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0015 | U | 0.0040 | 0.0015 | mg/L | | | 10/23/15 18:06 | 1 |

Lab Sample ID: MB 300-1669/59
Matrix: Water
Analysis Batch: 1669

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|--------|--------|------|---|----------|----------------|---------|
| Cr (VI) | 0.0015 | U | 0.0040 | 0.0015 | mg/L | | | 10/23/15 18:22 | 1 |

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 300-1669/32
Matrix: Water
Analysis Batch: 1669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Cr (VI) | 0.250 | 0.258 | | mg/L | | 103 | 80 - 120 |

Lab Sample ID: LCS 300-1669/4
Matrix: Water
Analysis Batch: 1669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Cr (VI) | 0.250 | 0.273 | | mg/L | | 109 | 80 - 120 |

Lab Sample ID: LCS 300-1669/60
Matrix: Water
Analysis Batch: 1669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Cr (VI) | 0.250 | 0.259 | | mg/L | | 104 | 80 - 120 |

Lab Sample ID: 300-1206-1 MS
Matrix: Water
Analysis Batch: 1669

Client Sample ID: B32R42
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Cr (VI) | 0.030 | | 0.0500 | 0.0810 | | mg/L | | 103 | 85 - 115 |

Lab Sample ID: 300-1206-21 MS
Matrix: Water
Analysis Batch: 1669

Client Sample ID: B32P05
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Cr (VI) | 0.0041 | M N | 0.0500 | 0.00450 | N | mg/L | | 0.8 | 85 - 115 |

Lab Sample ID: 300-1206-41 MS
Matrix: Water
Analysis Batch: 1669

Client Sample ID: B32NK8
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Cr (VI) | 0.015 | | 0.0500 | 0.0673 | | mg/L | | 105 | 85 - 115 |

Lab Sample ID: 300-1206-1 DU
Matrix: Water
Analysis Batch: 1669

Client Sample ID: B32R42
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Cr (VI) | 0.030 | | 0.0297 | | mg/L | | 0 | 20 |

Lab Sample ID: 300-1206-21 DU
Matrix: Water
Analysis Batch: 1669

Client Sample ID: B32P05
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Cr (VI) | 0.0041 | M N | 0.00300 | B M | mg/L | | 31 | 20 |

TestAmerica Richland

October 30, 2015
QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Lab Sample ID: 300-1206-41 DU
Matrix: Water
Analysis Batch: 1669

Client Sample ID: B32NK8
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Cr (VI) | 0.015 | | 0.0147 | | mg/L | | 1 | 20 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

October 30, 2015
QC Association Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

HPLC/IC

Analysis Batch: 1621

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|--------|------------|
| 300-1206-45 | B32Y84 | Total/NA | Water | 300.0 | |
| 300-1206-45 DU | B32Y84 | Total/NA | Water | 300.0 | |
| 300-1206-45 MS | B32Y84 | Total/NA | Water | 300.0 | |
| 300-1206-46 | B32RW4 | Total/NA | Water | 300.0 | |
| 300-1206-47 | B32NW7 | Total/NA | Water | 300.0 | |
| 300-1206-48 | B32NY7 | Total/NA | Water | 300.0 | |
| 300-1206-49 | B32NY0 | Total/NA | Water | 300.0 | |
| 300-1206-50 | B32NK5 | Total/NA | Water | 300.0 | |
| 300-1206-51 | B32NL1 | Total/NA | Water | 300.0 | |
| 300-1206-52 | B32RV1 | Total/NA | Water | 300.0 | |
| 300-1206-53 | B32NM3 | Total/NA | Water | 300.0 | |
| 300-1206-54 | B32P03 | Total/NA | Water | 300.0 | |
| 300-1206-55 | B32Y51 | Total/NA | Water | 300.0 | |
| 300-1206-56 | B32P39 | Total/NA | Water | 300.0 | |
| 300-1206-57 | B32Y50 | Total/NA | Water | 300.0 | |
| 300-1206-58 | B32Y68 | Total/NA | Water | 300.0 | |
| 300-1206-59 | B32Y69 | Total/NA | Water | 300.0 | |
| LCS 300-1621/13 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MB 300-1621/12 | Method Blank | Total/NA | Water | 300.0 | |

Analysis Batch: 1622

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|--------|------------|
| 300-1206-45 | B32Y84 | Total/NA | Water | 300.0 | |
| 300-1206-45 DU | B32Y84 | Total/NA | Water | 300.0 | |
| 300-1206-45 MS | B32Y84 | Total/NA | Water | 300.0 | |
| 300-1206-46 | B32RW4 | Total/NA | Water | 300.0 | |
| 300-1206-47 | B32NW7 | Total/NA | Water | 300.0 | |
| 300-1206-48 | B32NY7 | Total/NA | Water | 300.0 | |
| 300-1206-49 | B32NY0 | Total/NA | Water | 300.0 | |
| 300-1206-49 | B32NY0 | Total/NA | Water | 300.0 | |
| 300-1206-50 | B32NK5 | Total/NA | Water | 300.0 | |
| 300-1206-51 | B32NL1 | Total/NA | Water | 300.0 | |
| 300-1206-52 | B32RV1 | Total/NA | Water | 300.0 | |
| 300-1206-53 | B32NM3 | Total/NA | Water | 300.0 | |
| 300-1206-54 | B32P03 | Total/NA | Water | 300.0 | |
| 300-1206-55 | B32Y51 | Total/NA | Water | 300.0 | |
| 300-1206-56 | B32P39 | Total/NA | Water | 300.0 | |
| 300-1206-56 | B32P39 | Total/NA | Water | 300.0 | |
| 300-1206-57 | B32Y50 | Total/NA | Water | 300.0 | |
| 300-1206-57 | B32Y50 | Total/NA | Water | 300.0 | |
| 300-1206-58 | B32Y68 | Total/NA | Water | 300.0 | |
| 300-1206-59 | B32Y69 | Total/NA | Water | 300.0 | |
| LCS 300-1622/13 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MB 300-1622/12 | Method Blank | Total/NA | Water | 300.0 | |

General Chemistry

Analysis Batch: 1669

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 300-1206-1 | B32R42 | Total/NA | Water | 7196A | |

TestAmerica Richland

October 30, 2015
QC Association Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

General Chemistry (Continued)

Analysis Batch: 1669 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|--------|------------|
| 300-1206-1 DU | B32R42 | Total/NA | Water | 7196A | |
| 300-1206-1 MS | B32R42 | Total/NA | Water | 7196A | |
| 300-1206-2 | B32R40 | Total/NA | Water | 7196A | |
| 300-1206-3 | B32R36 | Total/NA | Water | 7196A | |
| 300-1206-4 | B32R33 | Total/NA | Water | 7196A | |
| 300-1206-5 | B32P73 | Total/NA | Water | 7196A | |
| 300-1206-6 | B32P74 | Total/NA | Water | 7196A | |
| 300-1206-7 | B32P70 | Total/NA | Water | 7196A | |
| 300-1206-8 | B32P66 | Total/NA | Water | 7196A | |
| 300-1206-9 | B32P42 | Total/NA | Water | 7196A | |
| 300-1206-10 | B32P40 | Total/NA | Water | 7196A | |
| 300-1206-11 | B32P65 | Total/NA | Water | 7196A | |
| 300-1206-12 | B32P69 | Total/NA | Water | 7196A | |
| 300-1206-13 | B32T10 | Total/NA | Water | 7196A | |
| 300-1206-14 | B32T09 | Total/NA | Water | 7196A | |
| 300-1206-15 | B32RX6 | Total/NA | Water | 7196A | |
| 300-1206-16 | B32RY0 | Total/NA | Water | 7196A | |
| 300-1206-17 | B32RX7 | Total/NA | Water | 7196A | |
| 300-1206-18 | B32RY1 | Total/NA | Water | 7196A | |
| 300-1206-19 | B32NM4 | Total/NA | Water | 7196A | |
| 300-1206-20 | B32NM6 | Total/NA | Water | 7196A | |
| 300-1206-21 | B32P05 | Total/NA | Water | 7196A | |
| 300-1206-21 DU | B32P05 | Total/NA | Water | 7196A | |
| 300-1206-21 MS | B32P05 | Total/NA | Water | 7196A | |
| 300-1206-22 | B32P07 | Total/NA | Water | 7196A | |
| 300-1206-23 | B32RT4 | Total/NA | Water | 7196A | |
| 300-1206-24 | B32RT3 | Total/NA | Water | 7196A | |
| 300-1206-25 | B32RT7 | Total/NA | Water | 7196A | |
| 300-1206-26 | B32RT9 | Total/NA | Water | 7196A | |
| 300-1206-27 | B32RT8 | Total/NA | Water | 7196A | |
| 300-1206-28 | B32RT6 | Total/NA | Water | 7196A | |
| 300-1206-29 | B32R64 | Total/NA | Water | 7196A | |
| 300-1206-30 | B32R63 | Total/NA | Water | 7196A | |
| 300-1206-31 | B32RV9 | Total/NA | Water | 7196A | |
| 300-1206-32 | B32RW1 | Total/NA | Water | 7196A | |
| 300-1206-33 | B32RW7 | Total/NA | Water | 7196A | |
| 300-1206-34 | B32RW5 | Total/NA | Water | 7196A | |
| 300-1206-35 | B32P01 | Total/NA | Water | 7196A | |
| 300-1206-36 | B32NY9 | Total/NA | Water | 7196A | |
| 300-1206-37 | B32NW9 | Total/NA | Water | 7196A | |
| 300-1206-38 | B32NX1 | Total/NA | Water | 7196A | |
| 300-1206-39 | B32NY4 | Total/NA | Water | 7196A | |
| 300-1206-40 | B32NY2 | Total/NA | Water | 7196A | |
| 300-1206-41 | B32NK8 | Total/NA | Water | 7196A | |
| 300-1206-41 DU | B32NK8 | Total/NA | Water | 7196A | |
| 300-1206-41 MS | B32NK8 | Total/NA | Water | 7196A | |
| 300-1206-42 | B32NK6 | Total/NA | Water | 7196A | |
| 300-1206-43 | B32NL2 | Total/NA | Water | 7196A | |
| 300-1206-44 | B32NL4 | Total/NA | Water | 7196A | |
| LCS 300-1669/32 | Lab Control Sample | Total/NA | Water | 7196A | |
| LCS 300-1669/4 | Lab Control Sample | Total/NA | Water | 7196A | |

TestAmerica Richland

October 30, 2015
QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

General Chemistry (Continued)

Analysis Batch: 1669 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|--------|------------|
| LCS 300-1669/60 | Lab Control Sample | Total/NA | Water | 7196A | |
| MB 300-1669/3 | Method Blank | Total/NA | Water | 7196A | |
| MB 300-1669/31 | Method Blank | Total/NA | Water | 7196A | |
| MB 300-1669/59 | Method Blank | Total/NA | Water | 7196A | |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32R42
Date Collected: 10/23/15 11:15
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-1
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:52 | AMC | TAL RCH |

Client Sample ID: B32R40
Date Collected: 10/23/15 11:15
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-2
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:52 | AMC | TAL RCH |

Client Sample ID: B32R36
Date Collected: 10/23/15 10:50
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-3
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:52 | AMC | TAL RCH |

Client Sample ID: B32R33
Date Collected: 10/23/15 10:50
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-4
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:53 | AMC | TAL RCH |

Client Sample ID: B32P73
Date Collected: 10/23/15 10:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-5
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:53 | AMC | TAL RCH |

Client Sample ID: B32P74
Date Collected: 10/23/15 10:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-6
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:53 | AMC | TAL RCH |

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32P70
Date Collected: 10/23/15 09:15
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-7
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:57 | AMC | TAL RCH |

Client Sample ID: B32P66
Date Collected: 10/23/15 09:15
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-8
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:57 | AMC | TAL RCH |

Client Sample ID: B32P42
Date Collected: 10/23/15 08:35
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-9
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:57 | AMC | TAL RCH |

Client Sample ID: B32P40
Date Collected: 10/23/15 08:35
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-10
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:58 | AMC | TAL RCH |

Client Sample ID: B32P65
Date Collected: 10/23/15 07:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-11
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:58 | AMC | TAL RCH |

Client Sample ID: B32P69
Date Collected: 10/23/15 07:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-12
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:58 | AMC | TAL RCH |

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32T10
Date Collected: 10/23/15 11:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-13
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:59 | AMC | TAL RCH |

Client Sample ID: B32T09
Date Collected: 10/23/15 11:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-14
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:01 | AMC | TAL RCH |

Client Sample ID: B32RX6
Date Collected: 10/23/15 10:19
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-15
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:02 | AMC | TAL RCH |

Client Sample ID: B32RY0
Date Collected: 10/23/15 10:19
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-16
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:02 | AMC | TAL RCH |

Client Sample ID: B32RX7
Date Collected: 10/23/15 10:19
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-17
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:03 | AMC | TAL RCH |

Client Sample ID: B32RY1
Date Collected: 10/23/15 10:19
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-18
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:03 | AMC | TAL RCH |

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32NM4
Date Collected: 10/23/15 09:17
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-19
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:03 | AMC | TAL RCH |

Client Sample ID: B32NM6
Date Collected: 10/23/15 09:17
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-20
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:06 | AMC | TAL RCH |

Client Sample ID: B32P05
Date Collected: 10/23/15 10:52
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-21
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:07 | AMC | TAL RCH |

Client Sample ID: B32P07
Date Collected: 10/23/15 10:52
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-22
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:08 | AMC | TAL RCH |

Client Sample ID: B32RT4
Date Collected: 10/23/15 09:22
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-23
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:11 | AMC | TAL RCH |

Client Sample ID: B32RT3
Date Collected: 10/23/15 09:22
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-24
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:11 | AMC | TAL RCH |

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32RT7
Date Collected: 10/23/15 09:56
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-25
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:12 | AMC | TAL RCH |

Client Sample ID: B32RT9
Date Collected: 10/23/15 09:56
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-26
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:12 | AMC | TAL RCH |

Client Sample ID: B32RT8
Date Collected: 10/23/15 09:56
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-27
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:12 | AMC | TAL RCH |

Client Sample ID: B32RT6
Date Collected: 10/23/15 09:56
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-28
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:13 | AMC | TAL RCH |

Client Sample ID: B32R64
Date Collected: 10/23/15 12:10
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-29
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:13 | AMC | TAL RCH |

Client Sample ID: B32R63
Date Collected: 10/23/15 12:10
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-30
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:16 | AMC | TAL RCH |

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32RV9
Date Collected: 10/23/15 12:39
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-31
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:16 | AMC | TAL RCH |

Client Sample ID: B32RW1
Date Collected: 10/23/15 12:39
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-32
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:16 | AMC | TAL RCH |

Client Sample ID: B32RW7
Date Collected: 10/23/15 13:23
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-33
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:17 | AMC | TAL RCH |

Client Sample ID: B32RW5
Date Collected: 10/23/15 13:23
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-34
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:17 | AMC | TAL RCH |

Client Sample ID: B32P01
Date Collected: 10/23/15 13:08
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-35
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:18 | AMC | TAL RCH |

Client Sample ID: B32NY9
Date Collected: 10/23/15 13:08
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-36
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:20 | AMC | TAL RCH |

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32NW9

Lab Sample ID: 300-1206-37

Date Collected: 10/23/15 12:10

Matrix: Water

Date Received: 10/23/15 15:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:21 | AMC | TAL RCH |

Client Sample ID: B32NX1

Lab Sample ID: 300-1206-38

Date Collected: 10/23/15 12:10

Matrix: Water

Date Received: 10/23/15 15:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:21 | AMC | TAL RCH |

Client Sample ID: B32NY4

Lab Sample ID: 300-1206-39

Date Collected: 10/23/15 13:50

Matrix: Water

Date Received: 10/23/15 15:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:21 | AMC | TAL RCH |

Client Sample ID: B32NY2

Lab Sample ID: 300-1206-40

Date Collected: 10/23/15 13:50

Matrix: Water

Date Received: 10/23/15 15:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:22 | AMC | TAL RCH |

Client Sample ID: B32NK8

Lab Sample ID: 300-1206-41

Date Collected: 10/23/15 14:00

Matrix: Water

Date Received: 10/23/15 15:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:26 | AMC | TAL RCH |

Client Sample ID: B32NK6

Lab Sample ID: 300-1206-42

Date Collected: 10/23/15 14:00

Matrix: Water

Date Received: 10/23/15 15:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:26 | AMC | TAL RCH |

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32NL2
Date Collected: 10/23/15 12:32
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-43
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:27 | AMC | TAL RCH |

Client Sample ID: B32NL4
Date Collected: 10/23/15 12:32
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-44
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:27 | AMC | TAL RCH |

Client Sample ID: B32Y84
Date Collected: 10/23/15 12:39
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-45
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 18:31 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 18:31 | CPM | TAL RCH |

Client Sample ID: B32RW4
Date Collected: 10/23/15 13:23
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-46
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 19:16 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 19:16 | CPM | TAL RCH |

Client Sample ID: B32NW7
Date Collected: 10/23/15 12:10
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-47
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 19:31 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 19:31 | CPM | TAL RCH |

Client Sample ID: B32NY7
Date Collected: 10/23/15 13:08
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-48
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 19:46 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 19:46 | CPM | TAL RCH |

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32NY0
Date Collected: 10/23/15 13:50
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-49
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 20:02 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 20:02 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 5 | 10 mL | | 1622 | 10/24/15 01:18 | CPM | TAL RCH |

Client Sample ID: B32NK5
Date Collected: 10/23/15 14:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-50
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 20:17 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 20:17 | CPM | TAL RCH |

Client Sample ID: B32NL1
Date Collected: 10/23/15 12:32
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-51
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 21:02 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 21:02 | CPM | TAL RCH |

Client Sample ID: B32RV1
Date Collected: 10/23/15 09:13
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-52
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 21:17 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 21:17 | CPM | TAL RCH |

Client Sample ID: B32NM3
Date Collected: 10/23/15 09:17
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-53
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 21:32 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 21:32 | CPM | TAL RCH |

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32P03
Date Collected: 10/23/15 10:52
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-54
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 21:47 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 21:47 | CPM | TAL RCH |

Client Sample ID: B32Y51
Date Collected: 10/23/15 07:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-55
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 22:02 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 22:02 | CPM | TAL RCH |

Client Sample ID: B32P39
Date Collected: 10/23/15 08:35
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-56
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 22:17 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 22:17 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 5 | 10 mL | | 1622 | 10/24/15 03:33 | CPM | TAL RCH |

Client Sample ID: B32Y50
Date Collected: 10/23/15 09:15
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-57
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 22:32 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 22:32 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 5 | 10 mL | | 1622 | 10/24/15 03:48 | CPM | TAL RCH |

Client Sample ID: B32Y68
Date Collected: 10/23/15 10:50
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-58
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 22:47 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 22:47 | CPM | TAL RCH |

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: B32Y69
Date Collected: 10/23/15 11:15
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-59
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 23:03 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 23:03 | CPM | TAL RCH |

Client Sample ID: B32R42
Date Collected: 10/23/15 11:15
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-1 DU
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:52 | AMC | TAL RCH |

Client Sample ID: B32P05
Date Collected: 10/23/15 10:52
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-21 DU
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:08 | AMC | TAL RCH |

Client Sample ID: B32NK8
Date Collected: 10/23/15 14:00
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-41 DU
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:26 | AMC | TAL RCH |

Client Sample ID: B32Y84
Date Collected: 10/23/15 12:39
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-45 DU
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 19:01 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 19:01 | CPM | TAL RCH |

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 300-1621/13
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | 10 mL | | 1621 | 10/23/15 18:16 | CPM | TAL RCH |

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: Lab Control Sample
 Date Collected: N/A
 Date Received: N/A

Lab Sample ID: LCS 300-1622/13
 Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | 10 mL | | 1622 | 10/23/15 18:16 | CPM | TAL RCH |

Client Sample ID: Lab Control Sample
 Date Collected: N/A
 Date Received: N/A

Lab Sample ID: LCS 300-1669/32
 Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:07 | AMC | TAL RCH |

Client Sample ID: Lab Control Sample
 Date Collected: N/A
 Date Received: N/A

Lab Sample ID: LCS 300-1669/4
 Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:49 | AMC | TAL RCH |

Client Sample ID: Lab Control Sample
 Date Collected: N/A
 Date Received: N/A

Lab Sample ID: LCS 300-1669/60
 Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:22 | AMC | TAL RCH |

Client Sample ID: Method Blank
 Date Collected: N/A
 Date Received: N/A

Lab Sample ID: MB 300-1621/12
 Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | 10 mL | | 1621 | 10/23/15 18:01 | CPM | TAL RCH |

Client Sample ID: Method Blank
 Date Collected: N/A
 Date Received: N/A

Lab Sample ID: MB 300-1622/12
 Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | 10 mL | | 1622 | 10/23/15 18:01 | CPM | TAL RCH |

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
 SDG: WC0496

Client Sample ID: Method Blank

Lab Sample ID: MB 300-1669/3

Date Collected: N/A

Matrix: Water

Date Received: N/A

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 17:48 | AMC | TAL RCH |

Client Sample ID: Method Blank

Lab Sample ID: MB 300-1669/31

Date Collected: N/A

Matrix: Water

Date Received: N/A

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:06 | AMC | TAL RCH |

Client Sample ID: Method Blank

Lab Sample ID: MB 300-1669/59

Date Collected: N/A

Matrix: Water

Date Received: N/A

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | | 1669 | 10/23/15 18:22 | AMC | TAL RCH |

Client Sample ID: B32R42

Lab Sample ID: 300-1206-1 MS

Date Collected: 10/23/15 11:15

Matrix: Water

Date Received: 10/23/15 15:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | 3.0 mL | 1669 | 10/23/15 17:49 | AMC | TAL RCH |

Client Sample ID: B32P05

Lab Sample ID: 300-1206-21 MS

Date Collected: 10/23/15 10:52

Matrix: Water

Date Received: 10/23/15 15:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | 3.0 mL | 1669 | 10/23/15 18:07 | AMC | TAL RCH |

Client Sample ID: B32NK8

Lab Sample ID: 300-1206-41 MS

Date Collected: 10/23/15 14:00

Matrix: Water

Date Received: 10/23/15 15:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 7196A | | 1 | | 3.0 mL | 1669 | 10/23/15 18:26 | AMC | TAL RCH |

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

Client Sample ID: B32Y84
Date Collected: 10/23/15 12:39
Date Received: 10/23/15 15:00

Lab Sample ID: 300-1206-45 MS
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1621 | 10/23/15 18:46 | CPM | TAL RCH |
| Total/NA | Analysis | 300.0 | | 2 | 10 mL | | 1622 | 10/23/15 18:46 | CPM | TAL RCH |

Laboratory References:

TAL RCH = TestAmerica Richland, 2800 George Washington Way, Richland, WA 99352, TEL (509)375-3131

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

| Method | Method Description | Protocol | Laboratory |
|--------|----------------------------|----------|------------|
| 300.0 | Anions, Ion Chromatography | MCAWW | TAL RCH |
| 7196A | Chromium, Hexavalent | SW846 | TAL RCH |

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL RCH = TestAmerica Richland, 2800 George Washington Way, Richland, WA 99352, TEL (509)375-3131



October 30, 2015
Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 300-1206-1 | B32R42 | Water | 10/23/15 11:15 | 10/23/15 15:00 |
| 300-1206-2 | B32R40 | Water | 10/23/15 11:15 | 10/23/15 15:00 |
| 300-1206-3 | B32R36 | Water | 10/23/15 10:50 | 10/23/15 15:00 |
| 300-1206-4 | B32R33 | Water | 10/23/15 10:50 | 10/23/15 15:00 |
| 300-1206-5 | B32P73 | Water | 10/23/15 10:00 | 10/23/15 15:00 |
| 300-1206-6 | B32P74 | Water | 10/23/15 10:00 | 10/23/15 15:00 |
| 300-1206-7 | B32P70 | Water | 10/23/15 09:15 | 10/23/15 15:00 |
| 300-1206-8 | B32P66 | Water | 10/23/15 09:15 | 10/23/15 15:00 |
| 300-1206-9 | B32P42 | Water | 10/23/15 08:35 | 10/23/15 15:00 |
| 300-1206-10 | B32P40 | Water | 10/23/15 08:35 | 10/23/15 15:00 |
| 300-1206-11 | B32P65 | Water | 10/23/15 07:00 | 10/23/15 15:00 |
| 300-1206-12 | B32P69 | Water | 10/23/15 07:00 | 10/23/15 15:00 |
| 300-1206-13 | B32T10 | Water | 10/23/15 11:00 | 10/23/15 15:00 |
| 300-1206-14 | B32T09 | Water | 10/23/15 11:00 | 10/23/15 15:00 |
| 300-1206-15 | B32RX6 | Water | 10/23/15 10:19 | 10/23/15 15:00 |
| 300-1206-16 | B32RY0 | Water | 10/23/15 10:19 | 10/23/15 15:00 |
| 300-1206-17 | B32RX7 | Water | 10/23/15 10:19 | 10/23/15 15:00 |
| 300-1206-18 | B32RY1 | Water | 10/23/15 10:19 | 10/23/15 15:00 |
| 300-1206-19 | B32NM4 | Water | 10/23/15 09:17 | 10/23/15 15:00 |
| 300-1206-20 | B32NM6 | Water | 10/23/15 09:17 | 10/23/15 15:00 |
| 300-1206-21 | B32P05 | Water | 10/23/15 10:52 | 10/23/15 15:00 |
| 300-1206-22 | B32P07 | Water | 10/23/15 10:52 | 10/23/15 15:00 |
| 300-1206-23 | B32RT4 | Water | 10/23/15 09:22 | 10/23/15 15:00 |
| 300-1206-24 | B32RT3 | Water | 10/23/15 09:22 | 10/23/15 15:00 |
| 300-1206-25 | B32RT7 | Water | 10/23/15 09:56 | 10/23/15 15:00 |
| 300-1206-26 | B32RT9 | Water | 10/23/15 09:56 | 10/23/15 15:00 |
| 300-1206-27 | B32RT8 | Water | 10/23/15 09:56 | 10/23/15 15:00 |
| 300-1206-28 | B32RT6 | Water | 10/23/15 09:56 | 10/23/15 15:00 |
| 300-1206-29 | B32R64 | Water | 10/23/15 12:10 | 10/23/15 15:00 |
| 300-1206-30 | B32R63 | Water | 10/23/15 12:10 | 10/23/15 15:00 |
| 300-1206-31 | B32RV9 | Water | 10/23/15 12:39 | 10/23/15 15:00 |
| 300-1206-32 | B32RW1 | Water | 10/23/15 12:39 | 10/23/15 15:00 |
| 300-1206-33 | B32RW7 | Water | 10/23/15 13:23 | 10/23/15 15:00 |
| 300-1206-34 | B32RW5 | Water | 10/23/15 13:23 | 10/23/15 15:00 |
| 300-1206-35 | B32P01 | Water | 10/23/15 13:08 | 10/23/15 15:00 |
| 300-1206-36 | B32NY9 | Water | 10/23/15 13:08 | 10/23/15 15:00 |
| 300-1206-37 | B32NW9 | Water | 10/23/15 12:10 | 10/23/15 15:00 |
| 300-1206-38 | B32NX1 | Water | 10/23/15 12:10 | 10/23/15 15:00 |
| 300-1206-39 | B32NY4 | Water | 10/23/15 13:50 | 10/23/15 15:00 |
| 300-1206-40 | B32NY2 | Water | 10/23/15 13:50 | 10/23/15 15:00 |
| 300-1206-41 | B32NK8 | Water | 10/23/15 14:00 | 10/23/15 15:00 |
| 300-1206-42 | B32NK6 | Water | 10/23/15 14:00 | 10/23/15 15:00 |
| 300-1206-43 | B32NL2 | Water | 10/23/15 12:32 | 10/23/15 15:00 |
| 300-1206-44 | B32NL4 | Water | 10/23/15 12:32 | 10/23/15 15:00 |
| 300-1206-45 | B32Y84 | Water | 10/23/15 12:39 | 10/23/15 15:00 |
| 300-1206-46 | B32RW4 | Water | 10/23/15 13:23 | 10/23/15 15:00 |
| 300-1206-47 | B32NW7 | Water | 10/23/15 12:10 | 10/23/15 15:00 |
| 300-1206-48 | B32NY7 | Water | 10/23/15 13:08 | 10/23/15 15:00 |
| 300-1206-49 | B32NY0 | Water | 10/23/15 13:50 | 10/23/15 15:00 |
| 300-1206-50 | B32NK5 | Water | 10/23/15 14:00 | 10/23/15 15:00 |
| 300-1206-51 | B32NL1 | Water | 10/23/15 12:32 | 10/23/15 15:00 |
| 300-1206-52 | B32RV1 | Water | 10/23/15 09:13 | 10/23/15 15:00 |
| 300-1206-53 | B32NM3 | Water | 10/23/15 09:17 | 10/23/15 15:00 |

TestAmerica Richland

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1206-1
SDG: WC0496

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 300-1206-54 | B32P03 | Water | 10/23/15 10:52 | 10/23/15 15:00 |
| 300-1206-55 | B32Y51 | Water | 10/23/15 07:00 | 10/23/15 15:00 |
| 300-1206-56 | B32P39 | Water | 10/23/15 08:35 | 10/23/15 15:00 |
| 300-1206-57 | B32Y50 | Water | 10/23/15 09:15 | 10/23/15 15:00 |
| 300-1206-58 | B32Y68 | Water | 10/23/15 10:50 | 10/23/15 15:00 |
| 300-1206-59 | B32Y69 | Water | 10/23/15 11:15 | 10/23/15 15:00 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1206-1

SDG Number: WC0496

Login Number: 1206

List Number: 1

Creator: Friesz, Jordan D

List Source: TestAmerica Richland

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | N/A | |
| Samples do not require splitting or compositing. | N/A | |
| Residual Chlorine Checked. | N/A | |

