



Engineering +
Environmental

August 22, 2014

Clark County, Washington
Attn: Mr. Jerry Barnett
23201 NE Pluss Road
Vancouver, Washington 98682

Re: Focused Groundwater Assessment for Perchlorate and Explosive Compounds
Lacamas Creek and Demolition Area 3 Wells
Camp Bonneville, Clark County, Washington
PBS Project No. 76151.005

Dear Mr. Barnett:

This letter report presents the results of a focused groundwater assessment conducted by PBS Engineering and Environmental Inc. (PBS) during the second quarter of 2014 at Camp Bonneville (Figure 1). This report has been prepared as a supplement to the routine quarterly groundwater monitoring conducted at the site. Please refer to the quarterly monitoring reports for information related to project setting, geology, and history.

PROJECT SCOPE DESCRIPTION

During the third quarter 2013 routine groundwater monitoring event, a low-level detection of the explosive HMX occurred in groundwater from Monitoring Well LC-MW01D. This well is part of the "Base Boundary" well grouping within the Lacamas Creek area (Figure 2) that is included in quarterly monitoring events. The sample collected from the well had a detection of HMX at 0.22 micrograms per liter ($\mu\text{g/L}$).

The remainder of the third quarter results for the Lacamas Creek wells was subsequently reviewed. Another well (LC-MW02D) had a detection of HMX between the method reporting limit (MRL) and the method detection limit (MDL). The MDL is defined as the minimum concentration that can be measured and reported with 99 percent confidence that the concentration is greater than zero, but the exact concentration cannot be reliably quantified.

The appearance of HMX at the down-gradient Base Boundary location is anomalous, and it was decided that additional groundwater assessment was warranted in the area. Clark County (County) and the Washington Department of Ecology (Ecology) requested PBS to obtain laboratory reports that report the Base Boundary data to the MDLs for perchlorate, RDX, and HMX from the Base Boundary wells, and conduct groundwater monitoring at the five existing Demolition Area 3 wells (Figure 3) for four consecutive quarters. Demolition Area 3 is a potential source for the low level of contamination detected at the Base Boundary wells. The Demolition Area 3 wells were removed from the active monitoring program in the third quarter of 2006. This report represents the third of four required

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quarterly monitoring events conducted in conjunction with site-wide groundwater monitoring (second quarter 2014) reported separately.

MONITORING WELL INFORMATION

The attached Table 1 provides information for the Demolition Area 3 wells. This table includes total depth, screened interval, and top-of-casing elevation. Information for the Lacamas Creek/Base Boundary wells is provided in the routine quarterly monitoring reports.

For Demolition Area 3, wells LC-MW05S, LC-MW07S, and LC-MW08S have screens installed between 270 and 290 feet above mean sea level (AMSL), and therefore, can be evaluated for groundwater flow direction. The screen for well LC-MW05D is installed much deeper, between 246 and 256 feet AMSL, and the screen for well LC-MW06S is installed shallower between 291 and 298 AMSL. Therefore, these wells cannot be included in a flow direction discussion. It should be noted that the boring logs for these wells indicate that the soil in the screened interval is expected to have low permeability.

Figure 3 provides the locations of the wells. Please note that this figure has been modified from the first focused assessment report dated March 3, 2014. The locations of the Demolition Area 3 wells are slightly different, based on historical site survey data.

GROUNDWATER MONITORING EVENT – June 2014

Demolition Area 3 Field Activities

Groundwater samples were collected from one monitoring well pair (LC-MW05D and LC-MW05S) and three single wells (LC-MW06S, LC-MW07S, and LC-MW08S) in Demolition Area 3 (Figure 3, Monitoring Well Locations) on June 13, 2014. A field duplicate sample (labeled 02Q14LCMW150W) was collected from Monitoring Well LC-MW08S. Extra volume of groundwater was collected from monitoring well LC-MW07S for laboratory matrix spike/matrix spike duplicate (MS/MSD) samples.

Groundwater monitoring was performed in accordance with the site Health and Safety Plan¹ (HASP), revised on September 14, 2010, and the Supplemental Groundwater Remedial Investigation Sampling and Analysis Plan and Quality Assurance Project Plan² (SAP/QAPP). Laboratory analytical services were provided by TestAmerica located in Portland, Oregon, and Sacramento, California, under contract with PBS Engineering and Environmental Inc. (PBS).

Low-Flow Purging

A low-flow, minimal-drawdown technique was used for groundwater purging and sampling using the QED Sample Pro[®] portable bladder pump, constructed of a stainless steel body and polyethylene disposable bladders. One-quarter-inch tubing installed during the first quarter 2014 monitoring event was used at each monitoring well. Between events, the tubing is stored in individual plastic bags that

¹ PBS Engineering and Environmental Inc. (14 September 2010). *Site Health and Safety Plan, Soil and Groundwater Sampling*.

² PBS Engineering and Environmental Inc. (January 2014). *Supplemental Groundwater and Surface Water Remedial Investigation Sampling and Analysis Plan and Quality Assurance Project Plan – Remedial Action Units 2C and 3*.

are placed in a storage area onsite. The low-flow purging technique is described in detail in the SAP. Low-flow sampling minimizes disturbance to the aquifer and is designed to ensure that samples collected from the wells are representative of groundwater.

Groundwater Sample Collection

Groundwater samples were collected and placed into new laboratory-supplied sample containers directly from the end of the disposable tubing discharge hose. The laboratory analytical method for perchlorate complies with a Department of Defense recommendation for this chemical.³ The method requires that sample collection include field filtering. The filtering is accomplished by using a laboratory-provided 60-milliliter (mL) graduated syringe and a 0.2 micrometer (μm) polyethersulfone (PES) filter. The filter is connected to the end of the syringe and approximately 120 mLs of groundwater is filtered from the discharge hose through the syringe into a laboratory-provided, pre-sealed 250 mL polyethylene container using method guidelines. Additional sample volume is required for the MS/MSD sample. Samples are stored with headspace to minimize the possibility of anaerobic conditions developing that can lead to the breakdown of perchlorate in solution.

Quality Assurance/Quality Control Samples

One duplicate sample was collected and one MS/MSD sample was collected for analysis. An equipment blank was not included with this sample collection.

Deviations from SAP/QAPP

This section is intended to discuss deviations from established protocols as well as to note unusual conditions or equipment issues encountered. Unless noted otherwise, the issues did not affect the quality of the samples collected during this event.

- Water levels in wells LC-MW05S, LC-MW05D, LC-MW07S, and LC-MW08S continued to drop during low-flow purging, likely due to low-permeability soil in the screened intervals. Therefore, depth to water readings would not equilibrate as required in the PBS standard operating procedures (SOP) for low-flow sampling. This is consistent with observations from the previous sampling events and the well redevelopment in December 2013. The remaining field parameters (temperature, specific conductivity, dissolved oxygen [DO], pH, and oxidation reduction potential [ORP]) were within an acceptable range. The deviation is not considered significant, and PBS considers the samples representative of aquifer conditions.

Investigation-Derived Waste

Gloves and other disposable field supplies were disposed of as solid waste. Purged groundwater was placed in 55-gallon drums that were sealed, labeled, and placed in the maintenance shed area.

³ Department of Defense Environmental Data Quality Workgroup. (August 2007). *DoD Perchlorate Handbook, Revision 1, Change 1*

GROUNDWATER MONITORING RESULTS

Analytical results reported to the MDL for all groundwater samples are presented in the attached Table 2, Base Boundary Wells Analytical Results and Table 3, Demo Area 3 Analytical Results. The MRLs are also noted on the tables. Groundwater field parameters (i.e., pH, temperature, conductivity, ORP, DO, and turbidity) recorded at the time of sampling are presented in Table 4. The analytical reports and the Level III Data Package from the June 2014 focused assessment are provided on the enclosed compact disc (CD).

Groundwater analytical results were compared to the State of Washington Model Toxics Control Act (MTCA) Method B cleanup levels. MTCA Method B cleanup levels and applicable, relevant, and appropriate state and federal groundwater screening values were obtained from the Ecology Cleanup Levels and Risk Calculations (CLARC)⁴ database.

Base Boundary Wells

A discussion of groundwater elevations and analytical results was provided in the routine groundwater monitoring report⁵ for the Base Boundary Wells and is not repeated here. There were no data quality issues in this sampling event that resulted in the flagging or rejection of any data for these wells.

There was a detection of perchlorate in Base Boundary Monitoring Well LCMW04S at 0.19 micrograms per liter ($\mu\text{g/L}$), which is between the MRL and MDL. There were no other detections of target compounds above the MDL for both the regular groundwater samples and the samples that were field filtered.

Demolition Area 3 Wells

Groundwater elevations are provided in the attached Table 4. Elevations in the wells ranged from 300.53 to 309.94 feet AMSL. For the three wells screened at the same interval (LC-MW05S, LC-MW07S, and LC-MW08S), groundwater flow direction is north-northwest, generally toward Lacamas Creek. For the nested wells (LC-MW05S and LC-MW05D), the vertical gradient is upward.

Please note that the highest groundwater elevation measurement (309.94 feet AMSL) was from well LC-MW05D, which is an artesian well that often overflows the top of the polyvinyl chloride (PVC) casing. Given the presence of low permeability soil noted previously in boring logs, it is apparent that this well is screened in a semi-confined or confined water-bearing unit. Accurate measurement of groundwater elevation in this well would require modification of the casing. If the Demolition Area 3 wells continue to be monitored, a modification (temporary during each field event) will be designed by PBS for County and Ecology approval.

There were no detections above the MDL of any analyzed compound in the Demolition Area 3 wells. Table 3 provides the MDLs and MRLs for the contaminants of concern.

⁴ <https://fortress.wa.gov/ecy/clarc/Reporting/CLARCReporting.aspx>

⁵ PBS Engineering and Environmental Inc. (August 2014). Second Quarter 2014 Groundwater Sampling and Analysis Report, Camp Bonneville, Vancouver, Washington.

DATA QUALITY REVIEW AND VALIDATION

For this focused assessment, the Base Boundary wells from the second quarter 2014 event had a separate laboratory data package generated with results reported to the MDL. The data package analytical results from the June 2014 Demolition Area 3 sampling event were also reported to the MDL. The data quality evaluation was performed for the Base Boundary/Lacamas Creek wells in the quarterly report prepared for the routine monitoring and is not repeated here. This section focuses on the supplemental monitoring that occurred in the Demolition Area 3 wells.

The overall data quality objective is to provide data of known and sufficient quality to evaluate the physical extent and concentration ranges of the chemicals of potential concern from analysis of groundwater samples, and to assure compliance with environmental and health-related agencies. Data quality objectives for laboratory analysis are presented in the QAPP. Laboratory analytical data were evaluated with respect to quality assurance objectives for precision, accuracy, representativeness, comparability, and completeness parameters.

The project specifications were met for all analytes, indicating that the sampling and analysis procedures were reproducible. The TestAmerica laboratory report narratives, presented in the attachments, state that all quality control parameters that affect sample analysis were met.

Data Validation

All analytical data were validated at a Level II review standard. Level II validation and reporting include a brief narrative of the laboratory data along with presentation of the sample results and related QA/QC analyses. Additionally, 20 percent of the analytical data (one of five samples) were validated at a Level III review standard. Level III validation adds the following to the reporting (not all of these method requirements are necessarily applicable to the analyses in this sampling event):

- Internal standards
- Blank association
- Serial dilution results
- Post-digestion spike results
- Gas chromatograph/mass spectrometer (GC/MS) tune table
- Initial calibration table
- Continuing calibration verifications
- Calibration blanks
- Interference check solution A/ interference check solution AB (ICSA/AB), contract required detection limit (CRDL), method detection limit/instrument detection limit (MDL/IDL) form
- Column confirmation
- Instrument run log

These data validation levels follow the criteria in the Environmental Protection Agency's (EPA) "Data Quality Objectives for Remedial Response Activities Development Process",⁶ National Technical Information Service.

Presentation of Data

There were two sample submissions on June 13, 2014. Samples were placed in two sample delivery groups (SDGs). One of the SDGs (250-19606-1) was processed at Level II and one (250-19605-1) at Level III. Laboratory reports and the Level III data package from the June 2014 Demolition Area 3 event are included on the enclosed CD.

Sample Handling and Control

The chain-of-custody forms indicate that samples were maintained under proper custody. Forms were signed upon release from the field and receipt at the laboratory. Samples were received by the laboratory at temperatures within acceptable limits and with proper preservation. All analyses from which results were reported were performed within applicable method-specified holding times.

There was a laboratory nonconformance situation concerning the storage of samples intended for perchlorate analysis. Internal laboratory standards dictate that samples should be stored between 0 and 6 degrees Celcius (°C) prior to analysis and the temperature of the refrigerator where the samples were stored rose to 14°C over a weekend. However, EPA Method 6850 for the analysis of perchlorate does not require specific temperature preservation. Considering that, and the fact that samples did not reach extreme elevated temperatures, PBS does not consider this a concern to the validity or accuracy of analytical results.

Method Reporting Limits

All samples met laboratory-specified MRLs and, additionally, were reported to the lower MDLs for this supplemental evaluation.

Field Data Quality Assessment

There are no specific data quality objectives for the measurement of field parameters (i.e., temperature, pH, ORP, conductivity, DO, and turbidity). Specific conductance, temperature, ORP, DO, and pH were measured during purging. Turbidity is measured during sample collection. PBS' SOP on low-flow groundwater sampling describes the acceptable criteria for the measurement of field parameters. A copy of the SOP is provided in the SAP/QAPP. Samples were collected following stabilization of the field parameters according to the SOP, except as noted in the Deviations from SAP/QAPP section.

Field Quality Control Sample Assessment

Duplicates

One duplicate sample was collected. The duplicate sample was analyzed for the same constituents as the source sample. The relative percent difference (RPD) was calculated as the difference between the

⁶ Environmental Protection Agency (EPA). (1987b). *Data Quality Objectives for Remedial Response Activities-Development Process*. EPA/540/G-87/003, OSWER Directive 9355.07B, EPA, Washington, D.C. (PB88-131370).

values divided by the average of the values. For samples with results greater than five times the MRL, or an RPD of less than 20 percent, would be considered good duplication. For samples with results less than five times the MRL, the difference between the sample and its duplicate must be less than the MRL in order to meet the quality assurance acceptance criteria. A significant difference between duplicate values for a few parameters indicates potential problems with the precision of specific analyses. A significant difference for many parameters indicates potential problems with the sample collection procedures.

The field duplicate analysis for well LC-MW08S met all quality control requirements.

Laboratory Quality Control Assessment

The analytical data quality evaluations performed by TestAmerica are presented in the laboratory reports in the attachments. No analytical results required qualification. Case narratives describing sample receipt, identification, and general comments by laboratory personnel are included in each report.

Laboratory Quality Control Samples/Indicators

- Blanks - There were no detections of target compounds in any blanks for any analyses.
- Laboratory Control Spikes (LCS) - LCS samples had recoveries within specified control limits.
- Matrix Spike/Matrix Spike Duplicates - MS and MSD recoveries and RPDs for MS/MSD pairs were within specified control limits.

Level III Data Review

The data package for SDG 250-19605-2 receiving Level III data reporting was reviewed for adherence to method criteria that exceeds Level II reporting. There were no deviations from method criteria.

CONCLUSION AND RECOMMENDATIONS

For the Demolition Area 3 wells, there were no detections of perchlorate, RDX, or HMX above the MDL. Sampling will continue in these wells for an additional quarter (September 2014) to provide a full year of seasonal monitoring data.

For the Base Boundary wells, perchlorate was detected in well LC-MW04S between the MRL and MDL. There was no detection above the MDL of any compound in the other wells. MDL reports will continue to be evaluated for the Base Boundary wells in conjunction with the Demolition Area 3 well monitoring (one more quarterly event in September 2014).

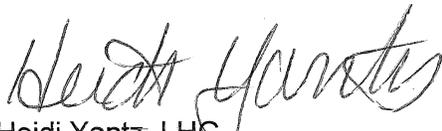
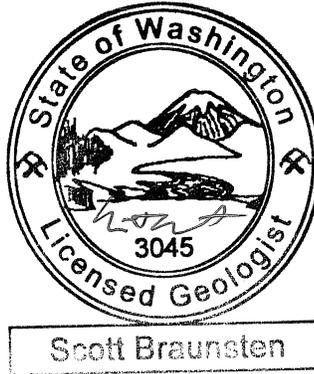
Mr. Jerry Barnett, Clark County
Re: Focused Perchlorate and Explosive Assessment in Groundwater
Camp Bonneville, Washington
August 22, 2014
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Please feel free to contact us at 360.690.4331 if you have any questions.

Sincerely,
PBS Engineering and Environmental Inc.



Scott Braunsten, LG, CES
Project Geologist



Heidi Yantz, LHG
Senior Hydrogeologist, Principal

SB/HY/DB/rd

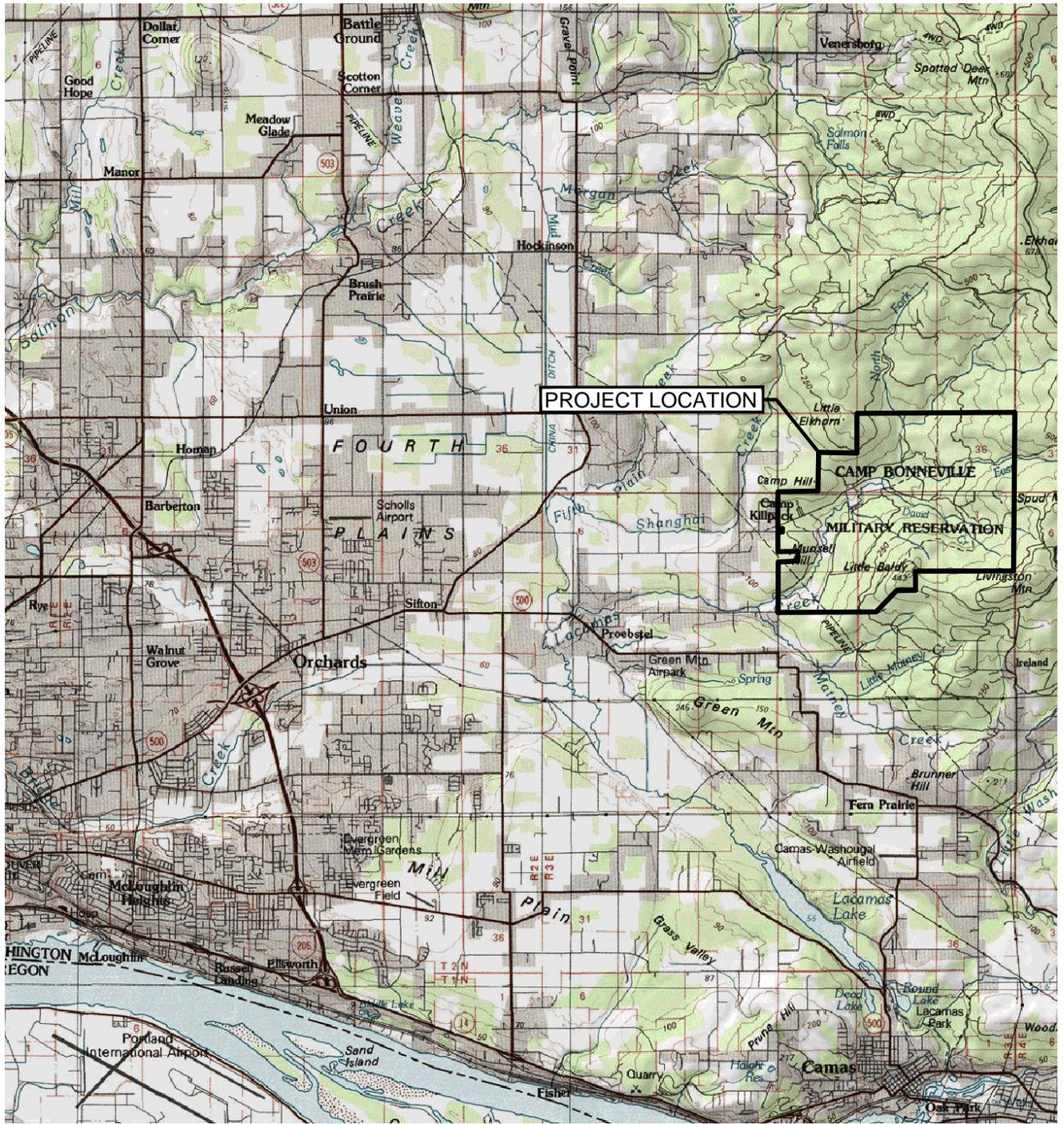
Attachments: Figure 1 – Vicinity Map
Figure 2 – Investigation Areas within Camp Bonneville
Figure 3 – Monitoring Well Locations near Demolition Area 3
Table 1 – Demolition Area 3 Well Number and Construction Details
Table 2 – Base Boundary (Lacamas Creek) Wells Analytical Results
Table 3 – Demolition Area 3 Analytical Results
Table 4 – Demolition Area 3 Field Parameters for Groundwater Samples
Laboratory Reports and Sample Chain-of-Custody Forms (Electronic files provided on enclosed CD)

Figures

Figure 1 – Vicinity Map

Figure 2 – Investigation Areas within Camp Bonneville

Figure 3 – Monitoring Well Locations near Demo Area 3



SOURCE: USGS 100K MAP SERIES



SCALE: 1" = 10,000'

PREPARED FOR: CLARK COUNTY, WASHINGTON



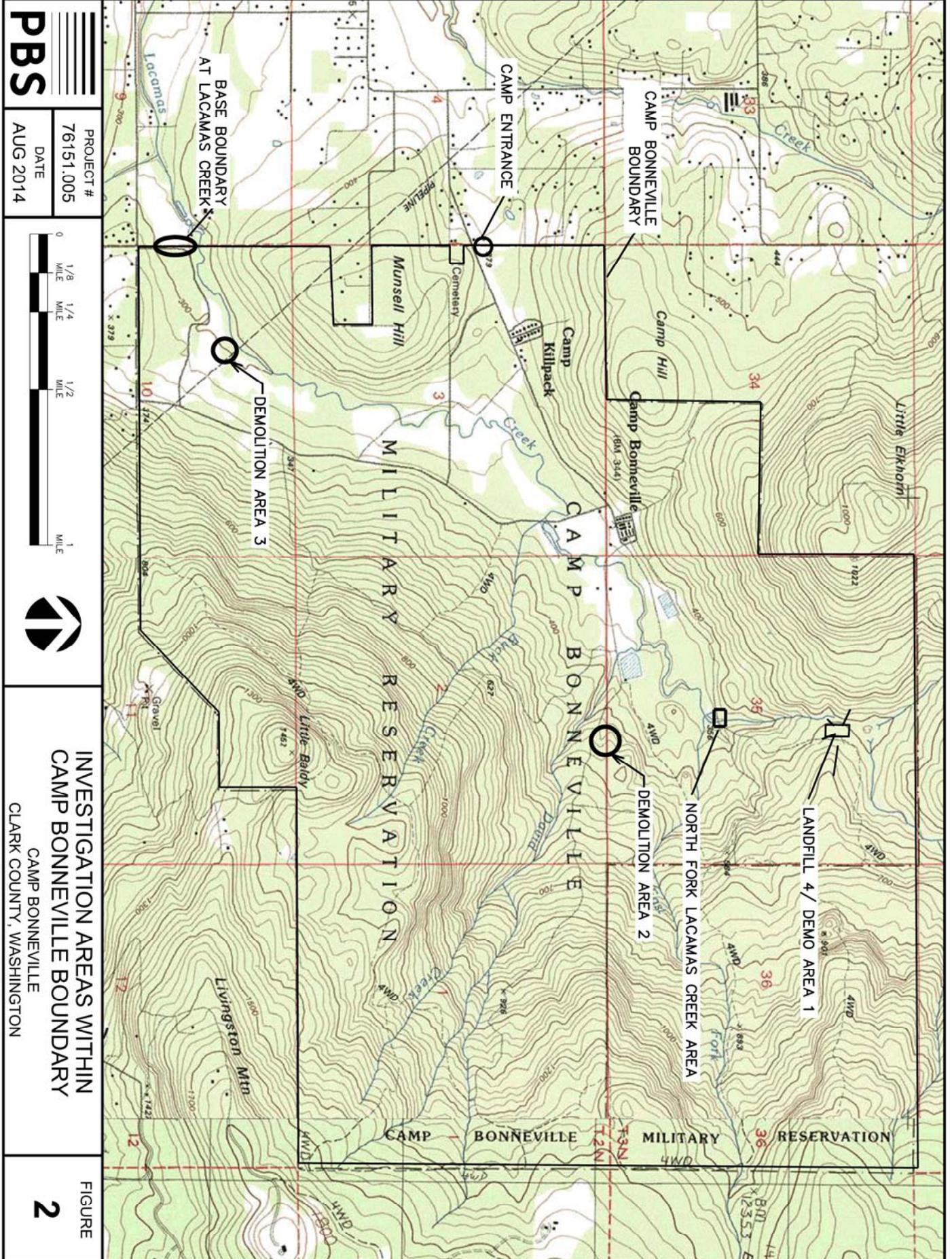
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VICINITY MAP
CAMP BONNEVILLE
CLARK COUNTY, WASHINGTON

FIGURE

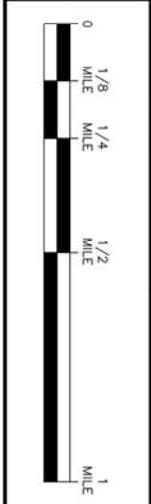
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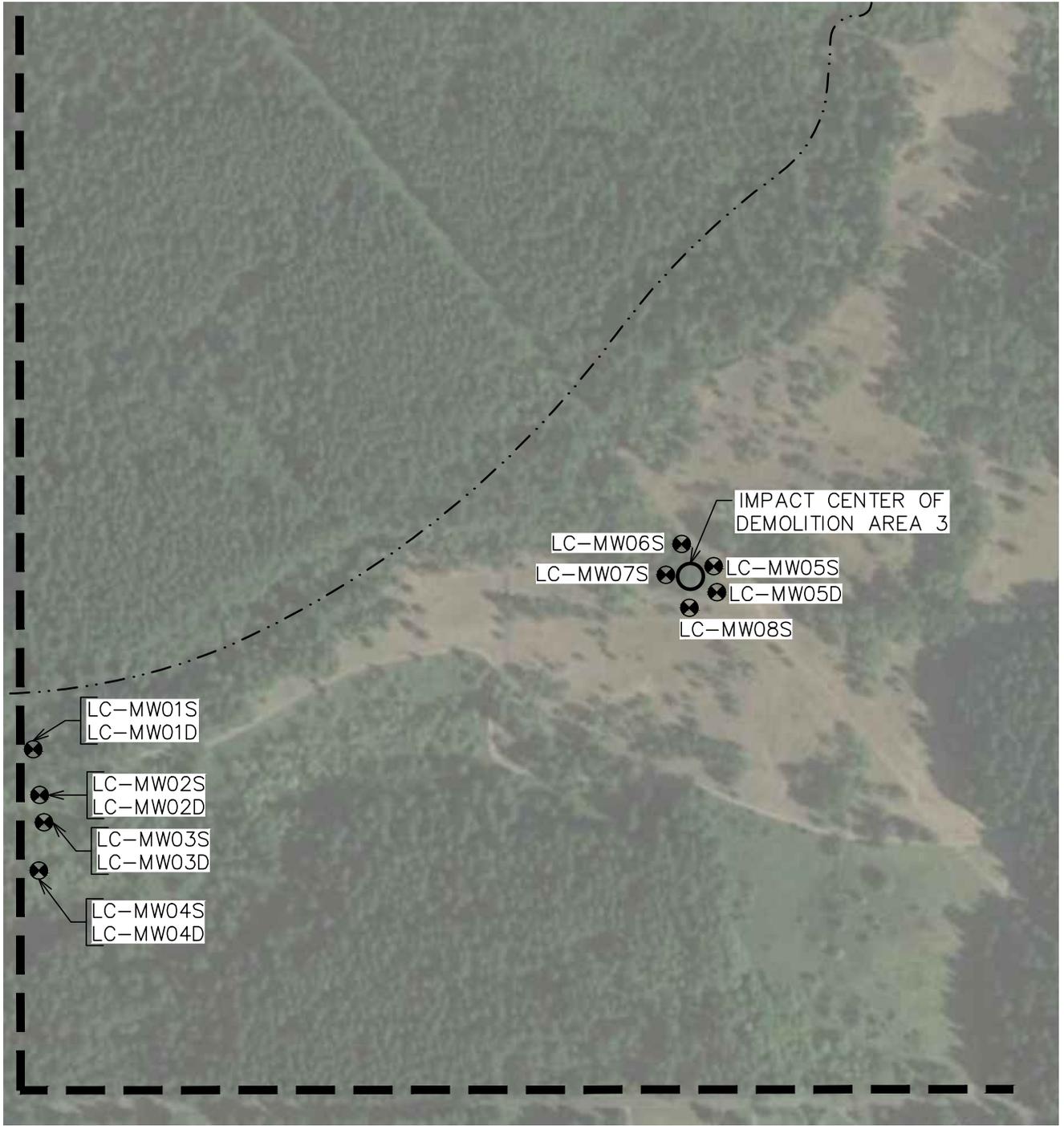


INVESTIGATION AREAS WITHIN
CAMP BONNEVILLE BOUNDARY

CAMP BONNEVILLE
CLARK COUNTY, WASHINGTON

FIGURE
2

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SOURCE: © 2011 GOOGLE EARTH PRO, © 2012 GOOGLE

LEGEND

- MONITORING WELL AND WELL NUMBER
- LC-MW01S
LC-MW01D
- · --- LACAMAS CREEK
- ■ --- BASE BOUNDARY



SCALE: 1" = 400'



PROJECT #
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DATE
AUG 2014

MONITORING WELL LOCATIONS
NEAR DEMOLITION AREA 3
CAMP BONNEVILLE
CLARK COUNTY, WASHINGTON

FIGURE
3

Tables

- Table 1 – Demolition Area 3 Well Number and Construction Details
- Table 2 – Base Boundary (Lacamas Creek) Wells Analytical Results
- Table 3 – Demolition Area 3 Analytical Results
- Table 4 – Demolition Area 3 Field Parameters for Groundwater Samples

**Table 1: Demolition Area 3 Well Number and Construction Details
Camp Bonneville, Vancouver, Washington**

| Well No. in PBS Work Contract | Well Location | Well Log Total Depth (feet)* | Screened Interval (feet)** | Top of PVC Casing Elevation (feet amsl) |
|--------------------------------------|----------------------|-------------------------------------|-----------------------------------|--|
| LC-MW05S | Demolition Area 3 | 37 | 22-37 | 310.10 |
| LC-MW05D | Demolition Area 3 | 62 | 52-62 | 309.94 |
| LC-MW06S | Demolition Area 3 | 15 | 8-15 | 308.27 |
| LC-MW07S | Demolition Area 3 | 37 | 22-37 | 308.92 |
| LC-MW08S | Demolition Area 3 | 37 | 22-37 | 309.78 |

Notes:

* = casing depth in feet recorded on well log

** = screened interval reported on well completion logs; feet below ground surface

amsl = above mean sea level

**Table 2: Base Boundary (Lacamas Creek) Wells
 Low-Level Analytical Results; Reported to MDL
 3rd and 4th Quarters 2013, 1st Quarter 2014, 2nd Quarter 2014
 Camp Bonneville, Vancouver, Washington**

| Analyte | MTCA Method B Cleanup Values | LCMW01DW | LCMW01DW Duplicate | LCMW01SW | LCMW01SW Duplicate | LCMW02DW | LCMW02SW | LCMW02SW Duplicate | LCMW03DW | LCMW03SW | LCMW04DW | LCMW04DW Duplicate | LCMW04SW | MRL/range |
|----------------------------|------------------------------|---------------------|--------------------|----------|--------------------|----------------------|----------|--------------------|----------------------|----------|----------|--------------------|---------------------|-----------|
| Third Quarter 2013 | | | | | | | | | | | | | | |
| Perchlorate | 11 | < 0.082 | < 0.082 | < 0.082 | | < 0.082 | < 0.082 | | < 0.082 | < 0.082 | < 0.082 | | 0.20 (0.082) | 0.5 |
| HMX | 4,000 | 0.22 (0.028) | < 0.028 | < 0.028 | | 0.040 (0.029) | < 0.027 | | < 0.028 | < 0.028 | < 0.028 | | < 0.028 | 0.10-0.11 |
| RDX | 0.8 | < 0.068 | < 0.066 | < 0.067 | | < 0.069 | < 0.066 | | < 0.067 | < 0.066 | < 0.067 | | < 0.067 | 0.10-0.11 |
| Fourth Quarter 2013 | | | | | | | | | | | | | | |
| Perchlorate | 11 | < 0.082 | | < 0.082 | | < 0.082 | < 0.082 | | 0.082 (0.082) | < 0.082 | < 0.082 | < 0.082 | 0.21 (0.082) | 0.5 |
| HMX | 4,000 | < 0.028 | | < 0.028 | | < 0.028 | < 0.028 | | < 0.028 | < 0.028 | < 0.028 | < 0.028 | < 0.028 | 0.10-0.11 |
| RDX | 0.8 | < 0.067 | | < 0.068 | | < 0.068 | < 0.069 | | < 0.067 | < 0.068 | < 0.067 | < 0.068 | < 0.068 | 0.10-0.11 |
| First Quarter 2014 | | | | | | | | | | | | | | |
| Perchlorate | 11 | < 0.082 | | < 0.082 | < 0.082 | < 0.082 | < 0.082 | | < 0.082 | < 0.082 | < 0.082 | | 0.16 (0.082) | 0.5 |
| HMX | 4,000 | < 0.028 | | < 0.027 | < 0.027 | < 0.028 | < 0.027 | | < 0.028 | < 0.028 | < 0.027 | | < 0.027 | 0.10 |
| RDX | 0.8 | < 0.066 | | < 0.066 | < 0.066 | < 0.067 | < 0.065 | | < 0.067 | < 0.066 | < 0.066 | | < 0.065 | 0.10 |
| Second Quarter 2014 | | | | | | | | | | | | | | |
| Perchlorate | 11 | < 0.082 | | < 0.082 | | < 0.082 | < 0.082 | < 0.082 | < 0.082 | < 0.082 | < 0.082 | | 0.19 (0.082) | 0.5 |
| HMX | 4,000 | < 0.028 | | < 0.028 | | < 0.027 | < 0.028 | < 0.028 | < 0.028 | < 0.028 | < 0.028 | | < 0.028 | 0.10-0.11 |
| RDX | 0.8 | < 0.067 | | < 0.068 | | < 0.066 | < 0.068 | < 0.067 | < 0.067 | < 0.067 | < 0.068 | | < 0.067 | 0.10-0.11 |

All values in micrograms per liter (µg/L)

The most stringent MTCA Method B Standard value is used

Bold = detected value

0.22 (0.028) = detected value (MDL)

< 0.082 = not detected above the indicated MDL

Table 3: Demolition Area 3 Analytical Results
Low-Level Results Reported to MDL
Fourth Quarter 2013, 1st Quarter 2014, 2nd Quarter 2014
Camp Bonneville, Vancouver, Washington

| Analyte | MTCA Method B Std. Cleanup Values | LCMW05DW | LCMW05DW Duplicate | LCMW05SW | LCMW06SW | LCMW07SW | LCMW07SW Duplicate | LCMW08SW | LCMW08SW Duplicate | MRL/range | |
|---------------------|-----------------------------------|---------------------|--------------------|----------|----------|----------|--------------------|----------|--------------------|-----------|------|
| | | Fourth Quarter 2013 | | | | | | | | | |
| Perchlorate | 11 | < 0.082 | X | < 0.082 | < 0.082 | < 0.082 | < 0.082 | < 0.082 | X | 0.5 | |
| HMX | 4,000 | < 0.038 | | < 0.037 | < 0.037 | < 0.037 | < 0.037 | < 0.037 | | 0.10-0.11 | |
| RDX | 0.8 | < 0.068 | | < 0.067 | < 0.067 | < 0.067 | < 0.066 | < 0.066 | | 0.10-0.11 | |
| First Quarter 2014 | | | | | | | | | | | |
| Perchlorate | 2.8 | < 0.082 | < 0.082 | < 0.082 | < 0.082 | < 0.082 | X | < 0.082 | X | 0.10-0.13 | |
| HMX | 3.8 | < 0.037 | < 0.037 | < 0.037 | < 0.037 | < 0.036 | | < 0.037 | | 0.10-0.14 | |
| RDX | 4.8 | < 0.067 | < 0.066 | < 0.066 | < 0.066 | < 0.065 | | < 0.067 | | 0.10-0.15 | |
| Second Quarter 2014 | | | | | | | | | | | |
| Perchlorate | 2.8 | < 0.082 | X | < 0.082 | < 0.082 | < 0.082 | X | < 0.082 | < 0.082 | 0.5 | |
| HMX | 3.8 | < 0.036 | | < 0.037 | < 0.037 | < 0.037 | | < 0.037 | < 0.037 | < 0.036 | 0.10 |
| RDX | 4.8 | < 0.066 | | < 0.067 | < 0.066 | < 0.066 | | < 0.066 | < 0.066 | < 0.065 | 0.10 |

Notes:

MDL = method detection limit

MRL = Method Reporting Limit

All values in micrograms per liter (µg/L)

The most stringent MTCA Method B Standard value is used

Bold = detected value

0.22 (0.028) = detected value (MDL)

< 0.082 = not detected above the indicated MDL



**Table 4: Demolition Area 3 Field Parameters for Groundwater Samples
4th Quarter 2013, 1st Quarter 2014, 2nd Quarter 2014
Camp Bonneville, Vancouver, Washington**

| Sample ID | Date | Depth to Water | Water Elevation | Dissolved Oxygen | Oxidation Reduction Potential | pH | Specific Conductivity | Temperature | Turbidity |
|----------------------------|------------|-----------------|---------------------|------------------|-------------------------------|----------|-----------------------|-----------------|-----------|
| | | feet below TOC* | feet amsl** | mg/L | millivolts | pH units | µS/cm | degrees Celsius | NTU |
| Fourth Quarter 2013 | | | | | | | | | |
| LC-MW05S | 12/04/2013 | 6.21 | 303.89 | 9.51 | 150.1 | 6.89 | 151 | 10.60 | 3.56 |
| LC-MW05D | 12/04/2013 | 0.00 | 309.94 ¹ | 6.14 | 116.2 | 6.90 | 151 | 9.42 | 29.02 |
| LC-MW06S | 12/05/2013 | 6.36 | 301.91 | 4.68 | 118.1 | 5.92 | 95 | 10.47 | 27.16 |
| LC-MW07S | 12/05/2013 | 6.25 | 302.67 | 9.09 | 77.6 | 7.11 | 152 | 10.29 | 4.45 |
| LC-MW08S | 12/05/2013 | 6.40 | 303.38 | 9.51 | 88.7 | 7.09 | 154 | 10.90 | 4.49 |
| First Quarter 2014 | | | | | | | | | |
| LC-MW05S | 03/14/2014 | 6.47 | 303.63 | 6.61 | 231.4 | 6.83 | 149 | 10.94 | 1.41 |
| LC-MW05D | 03/14/2014 | 0.00 | 309.94 ¹ | 5.47 | 274.2 | 5.86 | 144 | 10.63 | 5.74 |
| LC-MW06S | 03/14/2014 | 5.43 | 302.84 | 1.45 | 173.2 | 5.41 | 93 | 9.41 | 11.78 |
| LC-MW07S | 03/14/2014 | 6.55 | 302.37 | 8.13 | 207.5 | 7.25 | 158 | 11.10 | NR |
| LC-MW08S | 03/14/2014 | 6.07 | 303.71 | 6.63 | 202.4 | 6.68 | 149 | 10.92 | 1.21 |
| Second Quarter 2014 | | | | | | | | | |
| LC-MW05S | 06/13/2014 | 7.04 | 303.06 | 5.06 | 166.3 | 6.98 | 131 | 12.00 | 9.43 |
| LC-MW05D | 06/13/2014 | 0.00 | 309.94 ¹ | 4.54 | 151.3 | 6.81 | 128 | 12.20 | 15.79 |
| LC-MW06S | 06/13/2014 | 7.74 | 300.53 | 0.23 | 29.9 | 5.97 | 137 | 11.20 | 5.35 |
| LC-MW07S | 06/13/2014 | 7.14 | 301.78 | 5.44 | 149.3 | 7.18 | 141 | 11.10 | 5.7 |
| LC-MW08S | 06/13/2014 | 7.08 | 302.70 | 5.12 | 162.8 | 7.03 | 133 | 12.10 | 6.06 |

Notes:

Depth to water measurements taken on June 9, 2014

¹ This is an artesian well. Determination of an accurate depth to water was not possible during this monitoring event. Water elevation may be higher than noted.

* depth in feet measured from top of well PVC casing

** water level in feet above mean sea level, relative to top of PVC casing elevation survey

Field parameters were measured using a YSI 556 and a flow-through cell, with the exception of turbidity, which was measured using a HF Scientific TPW Meter

TOC = top of casing

amsl = above mean sea level

mg/L = milligrams per liter

µS/cm = micro-siemens per centimeter

NTU = Nephelometric Turbidity Units

NR = No reading

Laboratory Reports and Sample Chain-Of-Custody Forms

Level III Data Package

(Electronic files provided on enclosed CD)

ANALYTICAL REPORT

Job Number: 250-19605-2

SDG Number: 76151.005 Phase 0008

Job Description: Camp Bonneville GW Sampling

For:

PBS Engineering and Environmental
4412 SW Corbett Ave
Portland, OR 97239

Attention: Jerry Orlando



Approved for release.
Erica C Fot
Project Management Assistant II
7/15/2014 4:14 PM

Designee for
Vanessa H Berry, Project Manager II
9405 SW Nimbus Ave., Beaverton, OR, 97008
(503)906-9233
vanessa.berry@testamericainc.com
07/15/2014

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Definitions/Glossary

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19605-2
SDG: 76151.005 Phase 0008

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) |

CASE NARRATIVE

Client: PBS Engineering and Environmental

Project: Camp Bonneville GW Sampling

Report Number: 250-19605-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/13/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.8° C, 5.0° C, and 5.6° C.

PERCHLORATE

Sample 02Q14LCMW06SW (250-19605-1) was analyzed for Perchlorate in accordance with 6850. The samples were prepared on 07/07/2014 and analyzed on 07/10/2014.

Perchlorate failed the recovery criteria high for the MSD of sample 440-81721-4 in batch 320-46858.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

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

EXPLOSIVES

Sample 02Q14LCMW06SW (250-19605-1) was analyzed for explosives in accordance with EPA SW-846 Method 8330A. The samples were prepared on 06/19/2014 and analyzed on 06/20/2014.

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

Detection Summary

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19605-2
SDG: 76151.005 Phase 0008

Client Sample ID: 02Q14LCMW06SW

Lab Sample ID: 250-19605-1

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Portland

Client Sample Results

Client: PBS Engineering and Environmental
 Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19605-2
 SDG: 76151.005 Phase 0008

Client Sample ID: 02Q14LCMW06SW

Lab Sample ID: 250-19605-1

Date Collected: 06/13/14 12:34

Matrix: Water

Date Received: 06/13/14 17:30

Method: 8330A - Nitroaromatics and Nitramines

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|------------------|------------------|---------------|-------|------|---|-----------------|-----------------|----------------|
| HMX | ND | | 0.10 | 0.037 | ug/L | | 06/19/14 13:10 | 06/20/14 23:36 | 1 |
| RDX | ND | | 0.10 | 0.066 | ug/L | | 06/19/14 13:10 | 06/20/14 23:36 | 1 |
| <i>Surrogate</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | | | | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| 3,4-Dinitrotoluene | 97 | | 79 - 111 | | | | 06/19/14 13:10 | 06/20/14 23:36 | 1 |

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Perchlorate | ND | | 0.50 | 0.082 | ug/L | | 07/07/14 13:50 | 07/10/14 13:15 | 1 |

Default Detection Limits

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19605-2
SDG: 76151.005 Phase 0008

Method: 8330A - Nitroaromatics and Nitramines

| Analyte | RL | MDL | Units | Method |
|---------|------|-------|-------|--------|
| HMX | 0.10 | 0.036 | ug/L | 8330A |
| RDX | 0.10 | 0.065 | ug/L | 8330A |

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

| Analyte | RL | MDL | Units | Method |
|-------------|------|-------|-------|--------|
| Perchlorate | 0.50 | 0.082 | ug/L | 6850 |

Surrogate Summary

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19605-2
SDG: 76151.005 Phase 0008

Method: 8330A - Nitroaromatics and Nitramines

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | DNT1 (79-111) | | | | | | | |
|----------------------|-------------------------|--------------------------|--|--|--|--|--|--|--|
| 250-19605-1 | 02Q14LCMW06SW | 97 | | | | | | | |
| LCS 320-45167/2-A | Lab Control Sample | 96 | | | | | | | |
| MB 320-45167/1-A | Method Blank | 96 | | | | | | | |

Surrogate Legend

DNT = 3,4-Dinitrotoluene

QC Sample Results

Client: PBS Engineering and Environmental
 Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19605-2
 SDG: 76151.005 Phase 0008

Method: 8330A - Nitroaromatics and Nitramines

Lab Sample ID: MB 320-45167/1-A
Matrix: Water
Analysis Batch: 45295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45167

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| HMX | ND | | 0.10 | 0.036 | ug/L | | 06/19/14 13:10 | 06/20/14 21:43 | 1 |
| RDX | ND | | 0.10 | 0.065 | ug/L | | 06/19/14 13:10 | 06/20/14 21:43 | 1 |
| Surrogate | | MB MB | Limits | | | D | Prepared | Analyzed | Dil Fac |
| | %Recovery | Qualifier | | | | | | | |
| 3,4-Dinitrotoluene | 96 | | 79 - 111 | | | | 06/19/14 13:10 | 06/20/14 21:43 | 1 |

Lab Sample ID: LCS 320-45167/2-A
Matrix: Water
Analysis Batch: 45295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45167

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | |
|--------------------|-------------|------------|---------------|------|---|------|--------------|--------|
| | | | | | | | | |
| HMX | 1.00 | 1.10 | | ug/L | | 110 | 67 - 115 | |
| RDX | 1.00 | 1.11 | | ug/L | | 111 | 68 - 122 | |
| Surrogate | | LCS LCS | Limits | | | D | %Rec | Limits |
| | %Recovery | Qualifier | | | | | | |
| 3,4-Dinitrotoluene | 96 | | 79 - 111 | | | | | |

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

Lab Sample ID: MB 320-46609/1-A
Matrix: Water
Analysis Batch: 46858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46609

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Perchlorate | ND | | 0.50 | 0.082 | ug/L | | 07/07/14 13:50 | 07/10/14 12:39 | 1 |

Lab Sample ID: LCS 320-46609/2-A
Matrix: Water
Analysis Batch: 46858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46609

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | |
|-------------|-------------|------------|---------------|------|---|------|--------------|--|
| | | | | | | | | |
| Perchlorate | 5.00 | 5.22 | | ug/L | | 104 | 80 - 120 | |

Lab Sample ID: 250-19605-1 MS
Matrix: Water
Analysis Batch: 46858

Client Sample ID: 02Q14LCMW06SW
Prep Type: Total/NA
Prep Batch: 46609

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | |
|-------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|--|
| | | | | | | | | | | |
| Perchlorate | ND | | 5.00 | 5.33 | | ug/L | | 107 | 80 - 120 | |

Lab Sample ID: 250-19605-1 MSD
Matrix: Water
Analysis Batch: 46858

Client Sample ID: 02Q14LCMW06SW
Prep Type: Total/NA
Prep Batch: 46609

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | | RPD Limit |
|-------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|---|-----------|
| | | | | | | | | | | | |
| Perchlorate | ND | | 5.00 | 5.23 | | ug/L | | 105 | 80 - 120 | 2 | 15 |

QC Sample Results

Client: PBS Engineering and Environmental
 Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19605-2
 SDG: 76151.005 Phase 0008

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS (Continued)

Lab Sample ID: MB 320-46624/1-A
Matrix: Water
Analysis Batch: 46858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46624

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------------|-----------------|------|-------|------|---|----------------|----------------|---------|
| Perchlorate | ND | | 0.50 | 0.082 | ug/L | | 07/07/14 14:55 | 07/10/14 10:15 | 1 |

Lab Sample ID: LCS 320-46624/2-A
Matrix: Water
Analysis Batch: 46858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46624

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------|----------------|---------------|------------------|------|---|------|-----------------|
| Perchlorate | 5.00 | 5.34 | | ug/L | | 107 | 80 - 120 |

Lab Sample ID: INF 320-46609/3-A
Matrix: Water
Analysis Batch: 46858

Client Sample ID: Lab Control Sample
Prep Batch: 46609

| Analyte | Spike Added | INF Result | INF Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------|----------------|---------------|------------------|-------|---|------|-----------------|
| Perchlorate | 5.00 | 5.19 | | ng/mL | | 104 | 80 - 120 |

QC Association Summary

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19605-2
SDG: 76151.005 Phase 0008

HPLC/IC

Prep Batch: 45167

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|-----------|------------|
| 250-19605-1 | 02Q14LCMW06SW | Total/NA | Water | 8330-Prep | |
| LCS 320-45167/2-A | Lab Control Sample | Total/NA | Water | 8330-Prep | |
| MB 320-45167/1-A | Method Blank | Total/NA | Water | 8330-Prep | |

Analysis Batch: 45295

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 250-19605-1 | 02Q14LCMW06SW | Total/NA | Water | 8330A | 45167 |
| LCS 320-45167/2-A | Lab Control Sample | Total/NA | Water | 8330A | 45167 |
| MB 320-45167/1-A | Method Blank | Total/NA | Water | 8330A | 45167 |

LCMS

Prep Batch: 46609

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|------------|------------|
| 250-19605-1 | 02Q14LCMW06SW | Total/NA | Water | Filtration | |
| 250-19605-1 MS | 02Q14LCMW06SW | Total/NA | Water | Filtration | |
| 250-19605-1 MSD | 02Q14LCMW06SW | Total/NA | Water | Filtration | |
| INF 320-46609/3-A | Lab Control Sample | | Water | Filtration | |
| LCS 320-46609/2-A | Lab Control Sample | Total/NA | Water | Filtration | |
| MB 320-46609/1-A | Method Blank | Total/NA | Water | Filtration | |

Prep Batch: 46624

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|------------|------------|
| LCS 320-46624/2-A | Lab Control Sample | Total/NA | Water | Filtration | |
| MB 320-46624/1-A | Method Blank | Total/NA | Water | Filtration | |

Analysis Batch: 46858

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 250-19605-1 | 02Q14LCMW06SW | Total/NA | Water | 6850 | 46609 |
| 250-19605-1 MS | 02Q14LCMW06SW | Total/NA | Water | 6850 | 46609 |
| 250-19605-1 MSD | 02Q14LCMW06SW | Total/NA | Water | 6850 | 46609 |
| INF 320-46609/3-A | Lab Control Sample | | Water | 6850 | 46609 |
| LCS 320-46609/2-A | Lab Control Sample | Total/NA | Water | 6850 | 46609 |
| LCS 320-46624/2-A | Lab Control Sample | Total/NA | Water | 6850 | 46624 |
| MB 320-46609/1-A | Method Blank | Total/NA | Water | 6850 | 46609 |
| MB 320-46624/1-A | Method Blank | Total/NA | Water | 6850 | 46624 |

Lab Chronicle

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19605-2
SDG: 76151.005 Phase 0008

Client Sample ID: 02Q14LCMW06SW

Lab Sample ID: 250-19605-1

Date Collected: 06/13/14 12:34

Matrix: Water

Date Received: 06/13/14 17:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 8330-Prep | | | 45167 | 06/19/14 13:10 | HJA | TAL SAC |
| Total/NA | Analysis | 8330A | | 1 | 45295 | 06/20/14 23:36 | TQP | TAL SAC |
| Total/NA | Prep | Filtration | | | 46609 | 07/07/14 13:50 | JER | TAL SAC |
| Total/NA | Analysis | 6850 | | 1 | 46858 | 07/10/14 13:15 | JSS | TAL SAC |

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19605-2
SDG: 76151.005 Phase 0008

Laboratory: TestAmerica Portland

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Oregon | NELAP | 10 | OR100021 | 01-09-15 |

Laboratory: TestAmerica Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Oregon | NELAP | 10 | CA200005 | 01-29-15 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|-------------|
| 6850 | Filtration | Water | Perchlorate |

Method Summary

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19605-2
SDG: 76151.005 Phase 0008

| Method | Method Description | Protocol | Laboratory |
|---------------|----------------------------------|-----------------|-------------------|
| 8330A | Nitroaromatics and Nitramines | SW846 | TAL SAC |
| 6850 | Perchlorate by LC/MS or LC/MS/MS | EPA | TAL SAC |

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19605-2
SDG: 76151.005 Phase 0008

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|----------------------|-------------------------|---------------|------------------|-----------------|
| 250-19605-1 | 02Q14LCMW06SW | Water | 06/13/14 12:34 | 06/13/14 17:30 |

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

Instrument ID: LC11 Analysis Batch Number: 44625

Lab Sample ID: STD1 320-44625/4 IC Client Sample ID: _____

Date Analyzed: 06/12/14 17:50 Lab File ID: L000004.D GC Column: Synergi C18 ID: 4.6(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|--------------------|----------------|------------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 3,4-Dinitrotoluene | 32.49 | Incomplete Integration | phant | 06/13/14 11:36 |
| 4-Nitrotoluene | 38.17 | Baseline | phant | 06/13/14 11:37 |
| 3-Nitrotoluene | 39.58 | Baseline | phant | 06/13/14 11:37 |
| PETN | 40.61 | Baseline | phant | 06/13/14 11:36 |

Lab Sample ID: STD2 320-44625/5 IC Client Sample ID: _____

Date Analyzed: 06/12/14 18:46 Lab File ID: L000005.D GC Column: Synergi C18 ID: 4.6(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| PETN | 40.53 | Baseline | phant | 06/13/14 11:37 |

Lab Sample ID: STD3 320-44625/6 IC Client Sample ID: _____

Date Analyzed: 06/12/14 19:43 Lab File ID: L000006.D GC Column: Synergi C18 ID: 4.6(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| PETN | 40.56 | Baseline | phant | 06/13/14 11:38 |

Lab Sample ID: STD4 320-44625/7 IC Client Sample ID: _____

Date Analyzed: 06/12/14 20:40 Lab File ID: L000007.D GC Column: Synergi C18 ID: 4.6(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| PETN | 40.53 | Baseline | phant | 06/13/14 11:38 |

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

Instrument ID: LC11 Analysis Batch Number: 44625

Lab Sample ID: STD5 320-44625/8 IC Client Sample ID: _____

Date Analyzed: 06/12/14 21:36 Lab File ID: L000008.D GC Column: Synergi C18 ID: 4.6(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| PETN | 40.54 | Baseline | phant | 06/13/14 11:38 |

Lab Sample ID: STD6 320-44625/9 IC Client Sample ID: _____

Date Analyzed: 06/12/14 22:33 Lab File ID: L000009.D GC Column: Synergi C18 ID: 4.6(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| PETN | 40.55 | Baseline | phant | 06/13/14 11:38 |

Lab Sample ID: STD7 320-44625/10 IC Client Sample ID: _____

Date Analyzed: 06/12/14 23:29 Lab File ID: L000010.D GC Column: Synergi C18 ID: 4.6(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| PETN | 40.54 | Baseline | phant | 06/13/14 11:39 |

Lab Sample ID: ICV 320-44625/12 Client Sample ID: _____

Date Analyzed: 06/13/14 01:23 Lab File ID: L000012.D GC Column: Synergi C18 ID: 4.6(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| PETN | 40.54 | Baseline | phant | 06/13/14 11:40 |

Lab Sample ID: LODV 320-44625/13 Client Sample ID: _____

Date Analyzed: 06/13/14 02:19 Lab File ID: L000013.D GC Column: Synergi C18 ID: 4.6(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| PETN | 40.52 | Baseline | phant | 06/13/14 11:41 |

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

Instrument ID: LC11 Analysis Batch Number: 45295

Lab Sample ID: CCV 320-45295/4 CCVRT Client Sample ID: _____

Date Analyzed: 06/20/14 17:56 Lab File ID: T000004.D GC Column: Synergi C18 ID: 4.6(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| PETN | 40.50 | Baseline | phant | 06/23/14 07:20 |

Lab Sample ID: CCV 320-45295/14 CCVRT Client Sample ID: _____

Date Analyzed: 06/21/14 03:22 Lab File ID: T000014.D GC Column: Synergi C18 ID: 4.6(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| PETN | 40.50 | Baseline | phant | 06/23/14 07:28 |

Lab Sample ID: CCV 320-45295/19 CCVRT Client Sample ID: _____

Date Analyzed: 06/21/14 08:06 Lab File ID: T000019.D GC Column: Synergi C18 ID: 4.6(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| PETN | 40.46 | Baseline | phant | 06/23/14 07:30 |

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

Instrument ID: A6 Analysis Batch Number: 46523

Lab Sample ID: STD01 320-46523/3 IC Client Sample ID: _____

Date Analyzed: 07/05/14 13:08 Lab File ID: 05JUL2014_009.d GC Column: Xterra C18 ID: 3.2 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|---------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 18-O Perchlorate | 6.43 | Peak Not Integrated | strumj | 07/07/14 07:49 |
| Perchlorate | 6.45 | Poor chromatography | strumj | 07/07/14 07:49 |

Lab Sample ID: STD03 320-46523/5 IC Client Sample ID: _____

Date Analyzed: 07/05/14 13:42 Lab File ID: 05JUL2014_011.d GC Column: Xterra C18 ID: 3.2 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|---------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 18-O Perchlorate | 6.43 | Peak Not Integrated | strumj | 07/07/14 07:49 |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|------------------|----------|-----------|--------------------------------------|----------------------|---------------------|--------------|----------------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| HP34DNTSU_00025 | 10/09/14 | 04/09/14 | Acetonitrile, Lot Acetonitrle 00006 | 25 mL | HP8330SU_00022 | 1.25 mL | 3,4-Dinitrotoluene | 50 ug/mL |
| .HP8330SU_00022 | 05/01/18 | | Restek, Lot A095548 | | (Purchased Reagent) | | 3,4-Dinitrotoluene | 1000 ug/mL |
| HP8330IC_00020 | 10/07/14 | 06/10/14 | 25% 0.1%HOAc in ACN, Lot 4967-051B | 25 mL | HP8330TA_00016 | 25 uL | HMX | 200 ng/mL |
| .HP8330TA_00016 | 10/18/14 | | Cerilliant, Lot ER083011-01 | | (Purchased Reagent) | | RDX | 200 ng/mL |
| | | | | | | | HMX | 200 ug/mL |
| | | | | | | | RDX | 200 ug/mL |
| HP8330ICL_00015 | 10/07/14 | 05/16/14 | 25:75 HOAc/ACN, Lot 4967-043E | 50 mL | HP34DNTSU_00025 | 5 uL | 3,4-Dinitrotoluene | 5 ng/mL |
| | | | | | HP8330SP_00033 | 5 uL | HMX | 5 ng/mL |
| | | | | | | | RDX | 5 ng/mL |
| .HP34DNTSU_00025 | 10/09/14 | 04/09/14 | Acetonitrile, Lot Acetonitrle 00006 | 25 mL | HP8330SU_00022 | 1.25 mL | 3,4-Dinitrotoluene | 50 ug/mL |
| .HP8330SU_00022 | 05/01/18 | | Restek, Lot A095548 | | (Purchased Reagent) | | 3,4-Dinitrotoluene | 1000 ug/mL |
| .HP8330SP_00033 | 11/14/14 | 05/14/14 | Acetonitrile, Lot Acetonitrile_00007 | 10 mL | HP8330TA_00025 | 0.5 mL | HMX | 50 ug/mL |
| | | | | | | | RDX | 50 ug/mL |
| .HP8330TA_00025 | 11/30/17 | | Restek, Lot A0102389 | | (Purchased Reagent) | | HMX | 1000 ug/mL |
| | | | | | | | RDX | 1000 ug/mL |
| HP8330L1_00015 | 10/07/14 | 05/16/14 | 25% 0.1%HoAc in ACN, Lot 4967-043D | 10 mL | HP8330L4_00015 | 1 mL | 3,4-Dinitrotoluene | 5 ng/mL |
| | | | | | | | 3,5-Dinitroaniline | 5 ng/mL |
| | | | | | | | 1,3,5-Trinitrobenzene | 5 ng/mL |
| | | | | | | | 1,3-Dinitrobenzene | 5 ng/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 5 ng/mL |
| | | | | | | | 2,4-Dinitrotoluene | 5 ng/mL |
| | | | | | | | 2,6-Dinitrotoluene | 5 ng/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 5 ng/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 5 ng/mL |
| | | | | | | | HMX | 5 ng/mL |
| | | | | | | | m-Nitrotoluene | 5 ng/mL |
| | | | | | | | Nitrobenzene | 5 ng/mL |
| | | | | | | | o-Nitrotoluene | 5 ng/mL |
| | | | | | | | p-Nitrotoluene | 5 ng/mL |
| | | | | | | | RDX | 5 ng/mL |
| | | | | | | | Tetryl | 5 ng/mL |
| | | | | | | | Nitroglycerin | 5 ng/mL |
| | | | | | | | PETN | 5 ng/mL |
| | | | | | | | 2,4,6-Trinitrophenol | 10 ng/mL |
| .HP8330L4_00015 | 10/07/14 | 05/14/14 | 25% 0.1%HoAc in ACN, Lot 4967-043D | 50 mL | HP34DNTSU_00025 | 50 uL | 3,4-Dinitrotoluene | 50 ng/mL |
| | | | | | HP8330SP_00033 | 50 uL | 3,5-Dinitroaniline | 50 ng/mL |
| | | | | | | | 1,3,5-Trinitrobenzene | 50 ng/mL |
| | | | | | | | 1,3-Dinitrobenzene | 50 ng/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 50 ng/mL |
| | | | | | | | 2,4-Dinitrotoluene | 50 ng/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|--------------------|----------|-----------|--------------------------------------|----------------------|---------------------|--------------|----------------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2,6-Dinitrotoluene | 50 ng/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 50 ng/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 50 ng/mL |
| | | | | | | | HMX | 50 ng/mL |
| | | | | | | | m-Nitrotoluene | 50 ng/mL |
| | | | | | | | Nitrobenzene | 50 ng/mL |
| | | | | | | | o-Nitrotoluene | 50 ng/mL |
| | | | | | | | p-Nitrotoluene | 50 ng/mL |
| | | | | | | | RDX | 50 ng/mL |
| | | | | | | | Tetryl | 50 ng/mL |
| | | | | | HPNGPETNSP_00017 | 50 uL | Nitroglycerin | 50 ng/mL |
| | | | | | HPPASP_00018 | 100 uL | PETN | 50 ng/mL |
| ..HP34DNTSU_00025 | 10/09/14 | 04/09/14 | Acetonitrile, Lot Acetonitrile_00006 | 25 mL | HP8330SU_00022 | 1.25 mL | 2,4,6-Trinitrophenol | 100 ng/mL |
| ..HP8330SU_00022 | 05/01/18 | | Restek, Lot A095548 | | | | 3,4-Dinitrotoluene | 50 ug/mL |
| ..HP8330SP_00033 | 11/14/14 | 05/14/14 | Acetonitrile, Lot Acetonitrile_00007 | 10 mL | (Purchased Reagent) | | | 1000 ug/mL |
| | | | | | HP35DNATA_00024 | 0.5 mL | 3,5-Dinitroaniline | 50 ug/mL |
| | | | | | HP8330TA_00025 | 0.5 mL | 1,3,5-Trinitrobenzene | 50 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 50 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 50 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 50 ug/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 50 ug/mL |
| | | | | | | | HMX | 50 ug/mL |
| | | | | | | | m-Nitrotoluene | 50 ug/mL |
| | | | | | | | Nitrobenzene | 50 ug/mL |
| | | | | | | | o-Nitrotoluene | 50 ug/mL |
| | | | | | | | p-Nitrotoluene | 50 ug/mL |
| | | | | | | | RDX | 50 ug/mL |
| | | | | | | | Tetryl | 50 ug/mL |
| ...HP35DNATA_00024 | 07/01/18 | | Restek, Lot A098374 | | (Purchased Reagent) | | 3,5-Dinitroaniline | 1000 ug/mL |
| ...HP8330TA_00025 | 11/30/17 | | Restek, Lot A0102389 | | (Purchased Reagent) | | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | HMX | 1000 ug/mL |
| | | | | | | | m-Nitrotoluene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | o-Nitrotoluene | 1000 ug/mL |
| | | | | | | | p-Nitrotoluene | 1000 ug/mL |
| | | | | | | | RDX | 1000 ug/mL |
| | | | | | | | Tetryl | 1000 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|-----------------------|----------|----------------------|--------------------------------------|----------------------|---------------------|--------------|----------------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| ..HPNGPETNSP_00017 | 10/16/14 | 04/16/14 | Methanol, Lot 0000042259 | 10 mL | HPNGTA_00025 | 500 uL | Nitroglycerin | 50 ug/mL |
| | | | | | HPPETNTA_00023 | 500 uL | PETN | 50 ug/mL |
| ...HPNGTA_00025 | 07/31/18 | Restek, Lot A096573 | | | (Purchased Reagent) | | Nitroglycerin | 1000 ug/mL |
| ...HPPETNTA_00023 | 04/30/18 | Restek, Lot A094839 | | | (Purchased Reagent) | | PETN | 1000 ug/mL |
| ..HPPASP_00018 | 10/22/14 | 04/22/14 | Acetonitrile, Lot Acetonitrile 00007 | 10 mL | HPPATA_00015 | 0.5 mL | 2,4,6-Trinitrophenol | 50 ug/mL |
| ...HPPATA_00015 | 03/22/19 | restek, Lot A0101731 | | | (Purchased Reagent) | | 2,4,6-Trinitrophenol | 1000 ug/mL |
| HP8330L2_00010 | 10/07/14 | 05/14/14 | 25% 0.1%HoAC in ACN, Lot 4967-043D | 50 mL | HP34DNTSU_00025 | 10 uL | 3,4-Dinitrotoluene | 10 ng/mL |
| | | | | | HP8330SP_00033 | 10 uL | 3,5-Dinitroaniline | 10 ng/mL |
| | | | | | | | 1,3,5-Trinitrobenzene | 10 ng/mL |
| | | | | | | | 1,3-Dinitrobenzene | 10 ng/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 10 ng/mL |
| | | | | | | | 2,4-Dinitrotoluene | 10 ng/mL |
| | | | | | | | 2,6-Dinitrotoluene | 10 ng/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 10 ng/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 10 ng/mL |
| | | | | | | | HMX | 10 ng/mL |
| | | | | | | | m-Nitrotoluene | 10 ng/mL |
| | | | | | | | Nitrobenzene | 10 ng/mL |
| | | | | | | | o-Nitrotoluene | 10 ng/mL |
| | | | | | | | p-Nitrotoluene | 10 ng/mL |
| RDX | 10 ng/mL | | | | | | | |
| Tetryl | 10 ng/mL | | | | | | | |
| HPNGPETNSP_00017 | 10 uL | Nitroglycerin | 10 ng/mL | | | | | |
| PETN | 10 ng/mL | | | | | | | |
| HPPASP_00018 | 20 uL | 2,4,6-Trinitrophenol | 20 ng/mL | | | | | |
| ..HP34DNTSU_00025 | 10/09/14 | 04/09/14 | Acetonitrile, Lot Acetonitrile 00006 | 25 mL | HP8330SU_00022 | 1.25 mL | 3,4-Dinitrotoluene | 50 ug/mL |
| ..HP8330SU_00022 | 05/01/18 | Restek, Lot A095548 | | | (Purchased Reagent) | | 3,4-Dinitrotoluene | 1000 ug/mL |
| ..HP8330SP_00033 | 11/14/14 | 05/14/14 | Acetonitrile, Lot Acetonitrile_00007 | 10 mL | HP35DNATA_00024 | 0.5 mL | 3,5-Dinitroaniline | 50 ug/mL |
| | | | | | HP8330TA_00025 | 0.5 mL | 1,3,5-Trinitrobenzene | 50 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 50 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 50 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 50 ug/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 50 ug/mL |
| | | | | | | | HMX | 50 ug/mL |
| | | | | | | | m-Nitrotoluene | 50 ug/mL |
| | | | | | | | Nitrobenzene | 50 ug/mL |
| | | | | | | | o-Nitrotoluene | 50 ug/mL |
| | | | | | | | p-Nitrotoluene | 50 ug/mL |
| | | | | | | | RDX | 50 ug/mL |
| Tetryl | 50 ug/mL | | | | | | | |
| ..HP35DNATA_00024 | 07/01/18 | Restek, Lot A098374 | | | (Purchased Reagent) | | 3,5-Dinitroaniline | 1000 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|-----------------------|----------|-----------|--------------------------------------|----------------------|---------------------|--------------|----------------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| ..HP8330TA_00025 | 11/30/17 | | Restek, Lot A0102389 | | (Purchased Reagent) | | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | HMX | 1000 ug/mL |
| | | | | | | | m-Nitrotoluene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | o-Nitrotoluene | 1000 ug/mL |
| | | | | | | | p-Nitrotoluene | 1000 ug/mL |
| | | | | | | | RDX | 1000 ug/mL |
| | | | | | | | Tetryl | 1000 ug/mL |
| .HPNGPETNSP_00017 | 10/16/14 | 04/16/14 | Methanol, Lot 0000042259 | 10 mL | HPNGTA_00025 | 500 uL | Nitroglycerin | 50 ug/mL |
| | | | | | HPPETNTA_00023 | 500 uL | PETN | 50 ug/mL |
| ..HPNGTA_00025 | 07/31/18 | | Restek, Lot A096573 | | (Purchased Reagent) | | Nitroglycerin | 1000 ug/mL |
| ..HPPETNTA_00023 | 04/30/18 | | Restek, Lot A094839 | | (Purchased Reagent) | | PETN | 1000 ug/mL |
| .HPPASP_00018 | 10/22/14 | 04/22/14 | Acetonitrile, Lot Acetonitrile 00007 | 10 mL | HPPATA_00015 | 0.5 mL | 2,4,6-Trinitrophenol | 50 ug/mL |
| ..HPPATA_00015 | 03/22/19 | | restek, Lot A0101731 | | (Purchased Reagent) | | 2,4,6-Trinitrophenol | 1000 ug/mL |
| HP8330L3_00011 | 10/07/14 | 05/16/14 | 25% 0.1%HoAC in ACN, Lot 4967-037D | 50 mL | HP34DNTSU_00025 | 20 uL | 3,4-Dinitrotoluene | 20 ng/mL |
| | | | | | HP8330SP_00033 | 20 uL | 3,5-Dinitroaniline | 20 ng/mL |
| | | | | | | | 1,3,5-Trinitrobenzene | 20 ng/mL |
| | | | | | | | 1,3-Dinitrobenzene | 20 ng/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 20 ng/mL |
| | | | | | | | 2,4-Dinitrotoluene | 20 ng/mL |
| | | | | | | | 2,6-Dinitrotoluene | 20 ng/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 20 ng/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 20 ng/mL |
| | | | | | | | HMX | 20 ng/mL |
| | | | | | | | m-Nitrotoluene | 20 ng/mL |
| | | | | | | | Nitrobenzene | 20 ng/mL |
| | | | | | | | o-Nitrotoluene | 20 ng/mL |
| | | | | | | | p-Nitrotoluene | 20 ng/mL |
| | | | | | | | RDX | 20 ng/mL |
| | | | | | | | Tetryl | 20 ng/mL |
| | | | | | HPNGPETNSP_00017 | 20 uL | Nitroglycerin | 20 ng/mL |
| | | | | | | | PETN | 20 ng/mL |
| | | | | | HPPASP_00018 | 50 uL | 2,4,6-Trinitrophenol | 50 ng/mL |
| .HP34DNTSU_00025 | 10/09/14 | 04/09/14 | Acetonitrile, Lot Acetonitrile 00006 | 25 mL | HP8330SU_00022 | 1.25 mL | 3,4-Dinitrotoluene | 50 ug/mL |
| ..HP8330SU_00022 | 05/01/18 | | Restek, Lot A095548 | | (Purchased Reagent) | | 3,4-Dinitrotoluene | 1000 ug/mL |
| .HP8330SP_00033 | 11/14/14 | 05/14/14 | Acetonitrile, Lot Acetonitrile_00007 | 10 mL | HP35DNATA_00024 | 0.5 mL | 3,5-Dinitroaniline | 50 ug/mL |
| | | | | | HP8330TA_00025 | 0.5 mL | 1,3,5-Trinitrobenzene | 50 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|-----------------------|----------|-----------|--------------------------------------|----------------------|-----------------|---------------------|----------------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,3-Dinitrobenzene | 50 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 50 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 50 ug/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 50 ug/mL |
| | | | | | | | HMX | 50 ug/mL |
| | | | | | | | m-Nitrotoluene | 50 ug/mL |
| | | | | | | | Nitrobenzene | 50 ug/mL |
| | | | | | | | o-Nitrotoluene | 50 ug/mL |
| | | | | | | | p-Nitrotoluene | 50 ug/mL |
| | | | | | | | RDX | 50 ug/mL |
| | | | | | | | Tetryl | 50 ug/mL |
| ..HP35DNATA_00024 | 07/01/18 | | Restek, Lot A098374 | | | (Purchased Reagent) | 3,5-Dinitroaniline | 1000 ug/mL |
| ..HP8330TA_00025 | 11/30/17 | | Restek, Lot A0102389 | | | (Purchased Reagent) | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | HMX | 1000 ug/mL |
| | | | | | | | m-Nitrotoluene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | o-Nitrotoluene | 1000 ug/mL |
| | | | | | | | p-Nitrotoluene | 1000 ug/mL |
| | | | | | | | RDX | 1000 ug/mL |
| | | | | | | | Tetryl | 1000 ug/mL |
| .HPNGPETNSP_00017 | 10/16/14 | 04/16/14 | Methanol, Lot 0000042259 | 10 mL | HPNGTA_00025 | 500 uL | Nitroglycerin | 50 ug/mL |
| | | | | | HPPETNTA_00023 | 500 uL | PETN | 50 ug/mL |
| ..HPNGTA_00025 | 07/31/18 | | Restek, Lot A096573 | | | (Purchased Reagent) | Nitroglycerin | 1000 ug/mL |
| ..HPPETNTA_00023 | 04/30/18 | | Restek, Lot A094839 | | | (Purchased Reagent) | PETN | 1000 ug/mL |
| .HPPASP_00018 | 10/22/14 | 04/22/14 | Acetonitrile, Lot Acetonitrile 00007 | 10 mL | HPPATA_00015 | 0.5 mL | 2,4,6-Trinitrophenol | 50 ug/mL |
| ..HPPATA_00015 | 03/22/19 | | restek, Lot A0101731 | | | (Purchased Reagent) | 2,4,6-Trinitrophenol | 1000 ug/mL |
| HP8330L4_00015 | 10/07/14 | 05/14/14 | 25% 0.1%HoAC in ACN, Lot 4967-043D | 50 mL | HP34DNTSU_00025 | 50 uL | 3,4-Dinitrotoluene | 50 ng/mL |
| | | | | | HP8330SP_00033 | 50 uL | 3,5-Dinitroaniline | 50 ng/mL |
| | | | | | | | 1,3,5-Trinitrobenzene | 50 ng/mL |
| | | | | | | | 1,3-Dinitrobenzene | 50 ng/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 50 ng/mL |
| | | | | | | | 2,4-Dinitrotoluene | 50 ng/mL |
| | | | | | | | 2,6-Dinitrotoluene | 50 ng/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 50 ng/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 50 ng/mL |
| | | | | | | | HMX | 50 ng/mL |
| | | | | | | | m-Nitrotoluene | 50 ng/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration | |
|--------------------|----------|-----------|--------------------------------------|----------------------|------------------|--------------|----------------------------|----------------------------|------------|
| | | | | | Reagent ID | Volume Added | | | |
| | | | | | | | Nitrobenzene | 50 ng/mL | |
| | | | | | | | o-Nitrotoluene | 50 ng/mL | |
| | | | | | | | p-Nitrotoluene | 50 ng/mL | |
| | | | | | | | RDX | 50 ng/mL | |
| | | | | | | | Tetryl | 50 ng/mL | |
| | | | | | HPNGPETNSP_00017 | 50 uL | Nitroglycerin | 50 ng/mL | |
| | | | | | | | PETN | 50 ng/mL | |
| .HP34DNSTU_00025 | 10/09/14 | 04/09/14 | Acetonitrile, Lot Acetonitrle 00006 | 25 mL | HPPASP_00018 | 100 uL | 2,4,6-Trinitrophenol | 100 ng/mL | |
| | | | | | HP8330SU_00022 | 1.25 mL | 3,4-Dinitrotoluene | 50 ug/mL | |
| ..HP8330SU_00022 | 05/01/18 | | Restek, Lot A095548 | | | | (Purchased Reagent) | 3,4-Dinitrotoluene | 1000 ug/mL |
| ..HP8330SP_00033 | 11/14/14 | 05/14/14 | Acetonitrile, Lot Acetonitrile_00007 | 10 mL | HP35DNATA_00024 | 0.5 mL | 3,5-Dinitroaniline | 50 ug/mL | |
| | | | | | HP8330TA_00025 | 0.5 mL | 1,3,5-Trinitrobenzene | 50 ug/mL | |
| | | | | | | | 1,3-Dinitrobenzene | 50 ug/mL | |
| | | | | | | | 2,4,6-Trinitrotoluene | 50 ug/mL | |
| | | | | | | | 2,4-Dinitrotoluene | 50 ug/mL | |
| | | | | | | | 2,6-Dinitrotoluene | 50 ug/mL | |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 50 ug/mL | |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 50 ug/mL | |
| | | | | | | | HMX | 50 ug/mL | |
| | | | | | | | m-Nitrotoluene | 50 ug/mL | |
| | | | | | | | Nitrobenzene | 50 ug/mL | |
| | | | | | | | o-Nitrotoluene | 50 ug/mL | |
| | | | | | | | p-Nitrotoluene | 50 ug/mL | |
| | | | | | | | RDX | 50 ug/mL | |
| | | | | | | | Tetryl | 50 ug/mL | |
| ..HP35DNATA_00024 | 07/01/18 | | Restek, Lot A098374 | | | | (Purchased Reagent) | 3,5-Dinitroaniline | 1000 ug/mL |
| ..HP8330TA_00025 | 11/30/17 | | Restek, Lot A0102389 | | | | (Purchased Reagent) | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | | 2,4,6-Trinitrotoluene | 1000 ug/mL |
| | | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | | 2-Amino-4,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | | 4-Amino-2,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | | HMX | 1000 ug/mL |
| | | | | | | | | m-Nitrotoluene | 1000 ug/mL |
| | | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | | o-Nitrotoluene | 1000 ug/mL |
| | | | | | | | | p-Nitrotoluene | 1000 ug/mL |
| | | | | | | | | RDX | 1000 ug/mL |
| | | | | | | | | Tetryl | 1000 ug/mL |
| ..HPNGPETNSP_00017 | 10/16/14 | 04/16/14 | Methanol, Lot 0000042259 | 10 mL | HPNGTA_00025 | 500 uL | Nitroglycerin | 50 ug/mL | |
| | | | | | HPPETNTA_00023 | 500 uL | PETN | 50 ug/mL | |
| ..HPNGTA_00025 | 07/31/18 | | Restek, Lot A096573 | | | | (Purchased Reagent) | Nitroglycerin | 1000 ug/mL |
| ..HPPETNTA_00023 | 04/30/18 | | Restek, Lot A094839 | | | | (Purchased Reagent) | PETN | 1000 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|-------------------|-----------|---------------|--------------------------------------|----------------------|---------------------|--------------|----------------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| .HPPASP_00018 | 10/22/14 | 04/22/14 | Acetonitrile, Lot Acetonitrile 00007 | 10 mL | HPPATA_00015 | 0.5 mL | 2,4,6-Trinitrophenol | 50 ug/mL |
| ..HPPATA_00015 | 03/22/19 | | restek, Lot A0101731 | | (Purchased Reagent) | | 2,4,6-Trinitrophenol | 1000 ug/mL |
| HP8330L5_00026 | 10/07/14 | 05/14/14 | 25% 0.1%HoAc in ACN, Lot 4967-043D | 200 mL | HP34DNTSU_00025 | 400 uL | 3,4-Dinitrotoluene | 100 ng/mL |
| | | | | | HP8330SP_00033 | 400 uL | 3,5-Dinitroaniline | 100 ng/mL |
| | | | | | | | 1,3,5-Trinitrobenzene | 100 ng/mL |
| | | | | | | | 1,3-Dinitrobenzene | 100 ng/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 100 ng/mL |
| | | | | | | | 2,4-Dinitrotoluene | 100 ng/mL |
| | | | | | | | 2,6-Dinitrotoluene | 100 ng/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 100 ng/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 100 ng/mL |
| | | | | | | | HMX | 100 ng/mL |
| | | | | | | | m-Nitrotoluene | 100 ng/mL |
| | | | | | | | Nitrobenzene | 100 ng/mL |
| | | | | | | | o-Nitrotoluene | 100 ng/mL |
| | | | | | | | p-Nitrotoluene | 100 ng/mL |
| RDX | 100 ng/mL | | | | | | | |
| Tetryl | 100 ng/mL | | | | | | | |
| HPNGPETNSP_00017 | 400 uL | Nitroglycerin | 100 ng/mL | | | | | |
| HPPASP_00018 | 800 uL | PETN | 100 ng/mL | | | | | |
| HP34DNTSU_00025 | 10/09/14 | 04/09/14 | Acetonitrile, Lot Acetonitrile 00006 | 25 mL | HPPASP_00018 | 800 uL | 2,4,6-Trinitrophenol | 200 ng/mL |
| ..HP8330SU_00022 | 05/01/18 | | Restek, Lot A095548 | | (Purchased Reagent) | | 3,4-Dinitrotoluene | 1000 ug/mL |
| ..HP8330SP_00033 | 11/14/14 | 05/14/14 | Acetonitrile, Lot Acetonitrile_00007 | 10 mL | HP35DNATA_00024 | 0.5 mL | 3,5-Dinitroaniline | 50 ug/mL |
| | | | | | HP8330TA_00025 | 0.5 mL | 1,3,5-Trinitrobenzene | 50 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 50 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 50 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 50 ug/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 50 ug/mL |
| | | | | | | | HMX | 50 ug/mL |
| | | | | | | | m-Nitrotoluene | 50 ug/mL |
| | | | | | | | Nitrobenzene | 50 ug/mL |
| | | | | | | | o-Nitrotoluene | 50 ug/mL |
| | | | | | | | p-Nitrotoluene | 50 ug/mL |
| | | | | | | | RDX | 50 ug/mL |
| Tetryl | 50 ug/mL | | | | | | | |
| ..HP35DNATA_00024 | 07/01/18 | | Restek, Lot A098374 | | (Purchased Reagent) | | 3,5-Dinitroaniline | 1000 ug/mL |
| ..HP8330TA_00025 | 11/30/17 | | Restek, Lot A0102389 | | (Purchased Reagent) | | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|-----------------------|----------|-----------|--------------------------------------|----------------------|---------------------|--------------|----------------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | HMX | 1000 ug/mL |
| | | | | | | | m-Nitrotoluene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | o-Nitrotoluene | 1000 ug/mL |
| | | | | | | | p-Nitrotoluene | 1000 ug/mL |
| | | | | | | | RDX | 1000 ug/mL |
| | | | | | | | Tetryl | 1000 ug/mL |
| .HPNGPETNSP_00017 | 10/16/14 | 04/16/14 | Methanol, Lot 0000042259 | 10 mL | HPNGTA_00025 | 500 uL | Nitroglycerin | 50 ug/mL |
| | | | | | HPPETNTA 00023 | 500 uL | PETN | 50 ug/mL |
| ..HPNGTA 00025 | 07/31/18 | | Restek, Lot A096573 | | (Purchased Reagent) | | Nitroglycerin | 1000 ug/mL |
| ..HPPETNTA 00023 | 04/30/18 | | Restek, Lot A094839 | | (Purchased Reagent) | | PETN | 1000 ug/mL |
| .HPPASP_00018 | 10/22/14 | 04/22/14 | Acetonitrile, Lot Acetonitrile 00007 | 10 mL | HPPATA_00015 | 0.5 mL | 2,4,6-Trinitrophenol | 50 ug/mL |
| ..HPPATA_00015 | 03/22/19 | | restek, Lot A0101731 | | (Purchased Reagent) | | 2,4,6-Trinitrophenol | 1000 ug/mL |
| HP8330L6_00022 | 10/07/14 | 05/14/14 | 25% 0.1%HoAc in ACN, Lot 4967-0043D | 100 mL | HP34DNTSU_00025 | 400 uL | 3,4-Dinitrotoluene | 200 ng/mL |
| | | | | | HP8330SP_00033 | 400 uL | 3,5-Dinitroaniline | 200 ng/mL |
| | | | | | | | 1,3,5-Trinitrobenzene | 200 ng/mL |
| | | | | | | | 1,3-Dinitrobenzene | 200 ng/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 200 ng/mL |
| | | | | | | | 2,4-Dinitrotoluene | 200 ng/mL |
| | | | | | | | 2,6-Dinitrotoluene | 200 ng/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 200 ng/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 200 ng/mL |
| | | | | | | | HMX | 200 ng/mL |
| | | | | | | | m-Nitrotoluene | 200 ng/mL |
| | | | | | | | Nitrobenzene | 200 ng/mL |
| | | | | | | | o-Nitrotoluene | 200 ng/mL |
| | | | | | | | p-Nitrotoluene | 200 ng/mL |
| | | | | | | | RDX | 200 ng/mL |
| | | | | | | | Tetryl | 200 ng/mL |
| | | | | | HPNGPETNSP_00017 | 400 uL | Nitroglycerin | 200 ng/mL |
| | | | | | | | PETN | 200 ng/mL |
| | | | | | HPPASP 00018 | 1000 uL | 2,4,6-Trinitrophenol | 500 ng/mL |
| .HP34DNTSU_00025 | 10/09/14 | 04/09/14 | Acetonitrile, Lot Acetonitrile 00006 | 25 mL | HP8330SU_00022 | 1.25 mL | 3,4-Dinitrotoluene | 50 ug/mL |
| ..HP8330SU 00022 | 05/01/18 | | Restek, Lot A095548 | | (Purchased Reagent) | | 3,4-Dinitrotoluene | 1000 ug/mL |
| .HP8330SP_00033 | 11/14/14 | 05/14/14 | Acetonitrile, Lot Acetonitrile_00007 | 10 mL | HP35DNATA_00024 | 0.5 mL | 3,5-Dinitroaniline | 50 ug/mL |
| | | | | | HP8330TA_00025 | 0.5 mL | 1,3,5-Trinitrobenzene | 50 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 50 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 50 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 50 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|-----------------------|----------|-----------|--------------------------------------|----------------------|-----------------|---------------------|----------------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 50 ug/mL |
| | | | | | | | HMX | 50 ug/mL |
| | | | | | | | m-Nitrotoluene | 50 ug/mL |
| | | | | | | | Nitrobenzene | 50 ug/mL |
| | | | | | | | o-Nitrotoluene | 50 ug/mL |
| | | | | | | | p-Nitrotoluene | 50 ug/mL |
| | | | | | | | RDX | 50 ug/mL |
| | | | | | | | Tetryl | 50 ug/mL |
| ..HP35DNATA_00024 | 07/01/18 | | Restek, Lot A098374 | | | (Purchased Reagent) | 3,5-Dinitroaniline | 1000 ug/mL |
| ..HP8330TA_00025 | 11/30/17 | | Restek, Lot A0102389 | | | (Purchased Reagent) | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | HMX | 1000 ug/mL |
| | | | | | | | m-Nitrotoluene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | o-Nitrotoluene | 1000 ug/mL |
| | | | | | | | p-Nitrotoluene | 1000 ug/mL |
| | | | | | | | RDX | 1000 ug/mL |
| | | | | | | | Tetryl | 1000 ug/mL |
| .HPNGPETNSP_00017 | 10/16/14 | 04/16/14 | Methanol, Lot 0000042259 | 10 mL | HPNGTA_00025 | 500 uL | Nitroglycerin | 50 ug/mL |
| | | | | | HPPETNTA_00023 | 500 uL | PETN | 50 ug/mL |
| ..HPNGTA_00025 | 07/31/18 | | Restek, Lot A096573 | | | (Purchased Reagent) | Nitroglycerin | 1000 ug/mL |
| ..HPPETNTA_00023 | 04/30/18 | | Restek, Lot A094839 | | | (Purchased Reagent) | PETN | 1000 ug/mL |
| .HPPASP_00018 | 10/22/14 | 04/22/14 | Acetonitrile, Lot Acetonitrile 00007 | 10 mL | HPPATA_00015 | 0.5 mL | 2,4,6-Trinitrophenol | 50 ug/mL |
| ..HPPATA_00015 | 03/22/19 | | restek, Lot A0101731 | | | (Purchased Reagent) | 2,4,6-Trinitrophenol | 1000 ug/mL |
| HP8330L7_00010 | 10/07/14 | 05/14/14 | 25% 0.1%HoAc in ACN, Lot 4967-043D | 10 mL | HP34DNTSU_00025 | 100 uL | 3,4-Dinitrotoluene | 500 ng/mL |
| | | | | | HP8330SP_00033 | 100 uL | 3,5-Dinitroaniline | 500 ng/mL |
| | | | | | | | 1,3,5-Trinitrobenzene | 500 ng/mL |
| | | | | | | | 1,3-Dinitrobenzene | 500 ng/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 500 ng/mL |
| | | | | | | | 2,4-Dinitrotoluene | 500 ng/mL |
| | | | | | | | 2,6-Dinitrotoluene | 500 ng/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 500 ng/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 500 ng/mL |
| | | | | | | | HMX | 500 ng/mL |
| | | | | | | | m-Nitrotoluene | 500 ng/mL |
| | | | | | | | Nitrobenzene | 500 ng/mL |
| | | | | | | | o-Nitrotoluene | 500 ng/mL |
| | | | | | | | p-Nitrotoluene | 500 ng/mL |
| | | | | | | | RDX | 500 ng/mL |
| | | | | | | | Tetryl | 500 ng/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|-------------------|----------|-----------|--------------------------------------|----------------------|---------------------|--------------|----------------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | HPNGPETNSP_00017 | 100 uL | Nitroglycerin | 500 ng/mL |
| | | | | | | | PETN | 500 ng/mL |
| .HP34DNFSU_00025 | 10/09/14 | 04/09/14 | Acetonitrile, Lot Acetonitrile 00006 | 25 mL | HPPASP_00018 | 200 uL | 2,4,6-Trinitrophenol | 1000 ng/mL |
| | | | | | HP8330SU_00022 | 1.25 mL | 3,4-Dinitrotoluene | 50 ug/mL |
| ..HP8330SU_00022 | 05/01/18 | | Restek, Lot A095548 | | (Purchased Reagent) | | 3,4-Dinitrotoluene | 1000 ug/mL |
| .HP8330SP_00033 | 11/14/14 | 05/14/14 | Acetonitrile, Lot Acetonitrile_00007 | 10 mL | HP35DNATA_00024 | 0.5 mL | 3,5-Dinitroaniline | 50 ug/mL |
| | | | | | HP8330TA_00025 | 0.5 mL | 1,3,5-Trinitrobenzene | 50 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 50 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 50 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 50 ug/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 50 ug/mL |
| | | | | | | | HMX | 50 ug/mL |
| | | | | | | | m-Nitrotoluene | 50 ug/mL |
| | | | | | | | Nitrobenzene | 50 ug/mL |
| | | | | | | | o-Nitrotoluene | 50 ug/mL |
| | | | | | | | p-Nitrotoluene | 50 ug/mL |
| | | | | | | | RDX | 50 ug/mL |
| | | | | | | | Tetryl | 50 ug/mL |
| ..HP35DNATA_00024 | 07/01/18 | | Restek, Lot A098374 | | (Purchased Reagent) | | 3,5-Dinitroaniline | 1000 ug/mL |
| ..HP8330TA_00025 | 11/30/17 | | Restek, Lot A0102389 | | (Purchased Reagent) | | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | HMX | 1000 ug/mL |
| | | | | | | | m-Nitrotoluene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | o-Nitrotoluene | 1000 ug/mL |
| | | | | | | | p-Nitrotoluene | 1000 ug/mL |
| | | | | | | | RDX | 1000 ug/mL |
| | | | | | | | Tetryl | 1000 ug/mL |
| .HPNGPETNSP_00017 | 10/16/14 | 04/16/14 | Methanol, Lot 0000042259 | 10 mL | HPNGTA_00025 | 500 uL | Nitroglycerin | 50 ug/mL |
| | | | | | HPPETNTA_00023 | 500 uL | PETN | 50 ug/mL |
| ..HPNGTA_00025 | 07/31/18 | | Restek, Lot A096573 | | (Purchased Reagent) | | Nitroglycerin | 1000 ug/mL |
| ..HPPETNTA_00023 | 04/30/18 | | Restek, Lot A094839 | | (Purchased Reagent) | | PETN | 1000 ug/mL |
| .HPPASP_00018 | 10/22/14 | 04/22/14 | Acetonitrile, Lot Acetonitrile 00007 | 10 mL | HPPATA_00015 | 0.5 mL | 2,4,6-Trinitrophenol | 50 ug/mL |
| ..HPPATA_00015 | 03/22/19 | | restek, Lot A0101731 | | (Purchased Reagent) | | 2,4,6-Trinitrophenol | 1000 ug/mL |
| HP8330SP_00035 | 12/04/14 | 06/04/14 | Acetonitrile, Lot Acetonitrile_00007 | 10 mL | HP35DNATA_00025 | 0.5 mL | 3,5-Dinitroaniline | 50 ug/mL |
| | | | | | HP8330TA_00026 | 0.5 mL | 1,3,5-Trinitrobenzene | 50 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|------------------|----------|-----------|--------------------------------------|----------------------|----------------|---------------------|--|---------------|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | 1,3-Dinitrobenzene | 50 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 50 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 50 ug/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 50 ug/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 50 ug/mL |
| | | | | | | | HMX | 50 ug/mL |
| | | | | | | | m-Nitrotoluene | 50 ug/mL |
| | | | | | | | Nitrobenzene | 50 ug/mL |
| | | | | | | | o-Nitrotoluene | 50 ug/mL |
| | | | | | | | p-Nitrotoluene | 50 ug/mL |
| | | | | | | | RDX | 50 ug/mL |
| | | | | | | | Tetryl | 50 ug/mL |
| .HP35DNATA_00025 | 12/04/14 | | Restek, Lot A098374 | | | (Purchased Reagent) | 3,5-Dinitroaniline | 1000 ug/mL |
| .HP8330TA_00026 | 12/04/14 | | Restek, Lot A0102389 | | | (Purchased Reagent) | 1,3,5-Trinitrobenzene | 1000 ug/mL |
| | | | | | | | 1,3-Dinitrobenzene | 1000 ug/mL |
| | | | | | | | 2,4,6-Trinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,4-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2,6-Dinitrotoluene | 1000 ug/mL |
| | | | | | | | 2-Amino-4,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | 4-Amino-2,6-dinitrotoluene | 1000 ug/mL |
| | | | | | | | HMX | 1000 ug/mL |
| | | | | | | | m-Nitrotoluene | 1000 ug/mL |
| | | | | | | | Nitrobenzene | 1000 ug/mL |
| | | | | | | | o-Nitrotoluene | 1000 ug/mL |
| | | | | | | | p-Nitrotoluene | 1000 ug/mL |
| | | | | | | | RDX | 1000 ug/mL |
| | | | | | | | Tetryl | 1000 ug/mL |
| HPMETABL3_00007 | 10/20/14 | 05/20/14 | 25:75 HOAc/ACN, Lot 4967-051B | 50 mL | HPMETSP_00020 | 20 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 20.0273 ng/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine | 19.994 ng/mL |
| | | | | | | | MNX | 19.9993 ng/mL |
| .HPMETSP_00020 | 10/28/14 | 05/01/14 | Acetonitrile, Lot Acetonitrile_00007 | 5 mL | HPXNXH_00008 | 500 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 50.0681 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine | 49.9851 ug/mL |
| | | | | | | | MNX | 49.9983 ug/mL |
| ..HPXNXH_00008 | 10/28/14 | 04/28/14 | Acetonitrile, Lot 00007 | 2 mL | HPDNXIM_00007 | 121 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 500.681 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine | 499.851 ug/mL |
| | | | | | | | MNX | 499.983 ug/mL |
| | | | | | HPMNXIM_00005 | 80 uL | MNX | 499.983 ug/mL |
| | | | | | HPTNXIM_00006 | 82 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 500.681 ug/mL |
| ...HPDNXIM_00007 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 000007 | 1 mL | HPDNXTA_00010 | 10.2 mg | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 346.8 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|------------------|----------|-------------------------------------|--------------------------------------|----------------------|---------------------|--------------|---|---------------|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 8262 ug/mL |
| | | | | | | | MNX | 1326 ug/mL |
| ...HPDNXTA_00010 | 04/27/15 | SRI International, Lot 11172009 | | | (Purchased Reagent) | | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 0.034 g/g |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 0.81 g/g |
| | | | | | | | MNX | 0.13 g/g |
| ...HPMNXIM_00005 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 00007 | 1 mL | HPMNXTA_00010 | 10.6 mg | MNX | 10494 ug/mL |
| ...HPMNXTA_00010 | 04/27/15 | SRI International, Lot MNX153179208 | | | (Purchased Reagent) | | MNX | 0.99 g/g |
| ...HPTNXIM_00006 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 00007 | 1 mL | HPTNXTA_00010 | 11.7 mg | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 11700 ug/mL |
| ...HPTNXTA_00010 | 04/27/15 | SRI International, Lot 09192008 | | | (Purchased Reagent) | | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 1 g/g |
| HPMETABL4_00009 | 10/20/14 | 05/20/14 | 25:75 HOAc/ACN, Lot 4967-051B | 50 mL | HPMETSP_00020 | 50 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 50.0681 ng/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 49.9851 ng/mL |
| | | | | | | | MNX | 49.9983 ng/mL |
| .HPMETSP_00020 | 10/28/14 | 05/01/14 | Acetonitrile, Lot Acetonitrile_00007 | 5 mL | HPXNXH_00008 | 500 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 50.0681 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 49.9851 ug/mL |
| | | | | | | | MNX | 49.9983 ug/mL |
| ...HPXNXH_00008 | 10/28/14 | 04/28/14 | Acetonitrile, Lot 00007 | 2 mL | HPDNXIM_00007 | 121 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 500.681 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 499.851 ug/mL |
| | | | | | | | MNX | 499.983 ug/mL |
| | | | | | HPMNXIM_00005 | 80 uL | MNX | 499.983 ug/mL |
| | | | | | HPTNXIM_00006 | 82 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 500.681 ug/mL |
| ...HPDNXIM_00007 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 000007 | 1 mL | HPDNXTA_00010 | 10.2 mg | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 346.8 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 8262 ug/mL |
| | | | | | | | MNX | 1326 ug/mL |
| ...HPDNXTA_00010 | 04/27/15 | SRI International, Lot 11172009 | | | (Purchased Reagent) | | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 0.034 g/g |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 0.81 g/g |
| | | | | | | | MNX | 0.13 g/g |
| ...HPMNXIM_00005 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 00007 | 1 mL | HPMNXTA_00010 | 10.6 mg | MNX | 10494 ug/mL |
| ...HPMNXTA_00010 | 04/27/15 | SRI International, Lot MNX153179208 | | | (Purchased Reagent) | | MNX | 0.99 g/g |
| ...HPTNXIM_00006 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 00007 | 1 mL | HPTNXTA_00010 | 11.7 mg | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 11700 ug/mL |
| ...HPTNXTA_00010 | 04/27/15 | SRI International, Lot 09192008 | | | (Purchased Reagent) | | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 1 g/g |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|-------------------|----------|-------------------------------------|--------------------------------------|----------------------|----------------|--------------|---|---------------|
| | | | | | Reagent ID | Volume Added | | |
| HPMETABL5_00013 | 10/20/14 | 05/20/14 | 25:75 HOAc/ACN, Lot 4967-051B | 25 mL | HPMETSP_00020 | 50 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 100.136 ng/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 99.9702 ng/mL |
| | | | | | | | MNX | 99.9966 ng/mL |
| .HPMETSP_00020 | 10/28/14 | 05/01/14 | Acetonitrile, Lot Acetonitrile_00007 | 5 mL | HPXNXH_00008 | 500 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 50.0681 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 49.9851 ug/mL |
| | | | | | | | MNX | 49.9983 ug/mL |
| ..HPXNXH_00008 | 10/28/14 | 04/28/14 | Acetonitrile, Lot 00007 | 2 mL | HPDNXIM_00007 | 121 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 500.681 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 499.851 ug/mL |
| | | | | | | | MNX | 499.983 ug/mL |
| | | | | | HPMNXIM_00005 | 80 uL | MNX | 499.983 ug/mL |
| | | | | | HPTNXIM_00006 | 82 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 500.681 ug/mL |
| ...HPDNXIM_00007 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 000007 | 1 mL | HPDNXTA_00010 | 10.2 mg | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 346.8 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 8262 ug/mL |
| | | | | | | | MNX | 1326 ug/mL |
|HPDNXTA_00010 | 04/27/15 | SRI International, Lot 11172009 | | (Purchased Reagent) | | | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 0.034 g/g |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 0.81 g/g |
| | | | | | | | MNX | 0.13 g/g |
| ...HPMNXIM_00005 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 00007 | 1 mL | HPMNXTA_00010 | 10.6 mg | MNX | 10494 ug/mL |
|HPMNXTA_00010 | 04/27/15 | SRI International, Lot MNX153179208 | | (Purchased Reagent) | | | MNX | 0.99 g/g |
| ...HPTNXIM_00006 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 00007 | 1 mL | HPTNXTA_00010 | 11.7 mg | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 11700 ug/mL |
|HPTNXTA_00010 | 04/27/15 | SRI International, Lot 09192008 | | (Purchased Reagent) | | | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 1 g/g |
| HPMETABL6_00009 | 10/20/14 | 05/20/14 | 25:75 HOAc/ACN, Lot 4967-051B | 25 mL | HPMETSP_00020 | 100 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 200.273 ng/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 199.94 ng/mL |
| | | | | | | | MNX | 199.993 ng/mL |
| .HPMETSP_00020 | 10/28/14 | 05/01/14 | Acetonitrile, Lot Acetonitrile_00007 | 5 mL | HPXNXH_00008 | 500 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 50.0681 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 49.9851 ug/mL |
| | | | | | | | MNX | 49.9983 ug/mL |
| ..HPXNXH_00008 | 10/28/14 | 04/28/14 | Acetonitrile, Lot 00007 | 2 mL | HPDNXIM_00007 | 121 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 500.681 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 499.851 ug/mL |
| | | | | | | | MNX | 499.983 ug/mL |
| | | | | | | | HPMNXIM_00005 | 80 uL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|------------------------|----------|-------------------------------------|--------------------------------------|----------------------|---------------------|--------------|---|---------------|
| | | | | | Reagent ID | Volume Added | | |
| | | | | | HPTNXIM_00006 | 82 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 500.681 ug/mL |
| ...HPDNXIM_00007 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 000007 | 1 mL | HPDNXTA_00010 | 10.2 mg | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 346.8 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 8262 ug/mL |
| | | | | | | | MNX | 1326 ug/mL |
| ...HPDNXTA_00010 | 04/27/15 | SRI International, Lot 11172009 | | | (Purchased Reagent) | | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 0.034 g/g |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 0.81 g/g |
| | | | | | | | MNX | 0.13 g/g |
| ...HPMNXIM_00005 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 00007 | 1 mL | HPMNXTA_00010 | 10.6 mg | MNX | 10494 ug/mL |
| ...HPMNXTA_00010 | 04/27/15 | SRI International, Lot MNX153179208 | | | (Purchased Reagent) | | MNX | 0.99 g/g |
| ...HPTNXIM_00006 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 00007 | 1 mL | HPTNXTA_00010 | 11.7 mg | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 11700 ug/mL |
| ...HPTNXTA_00010 | 04/27/15 | SRI International, Lot 09192008 | | | (Purchased Reagent) | | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 1 g/g |
| HPMETABL7_00007 | 10/20/14 | 05/20/14 | 25:75 HOAc/ACN, Lot 4967-051B | 10 mL | HPMETSP_00020 | 100 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 500.681 ng/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 499.851 ng/mL |
| | | | | | | | MNX | 499.983 ng/mL |
| .HPMETSP_00020 | 10/28/14 | 05/01/14 | Acetonitrile, Lot Acetonitrile_00007 | 5 mL | HPXNXH_00008 | 500 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 50.0681 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 49.9851 ug/mL |
| | | | | | | | MNX | 49.9983 ug/mL |
| ...HPXNXH_00008 | 10/28/14 | 04/28/14 | Acetonitrile, Lot 00007 | 2 mL | HPDNXIM_00007 | 121 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 500.681 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 499.851 ug/mL |
| | | | | | | | MNX | 499.983 ug/mL |
| | | | | | HPMNXIM_00005 | 80 uL | MNX | 499.983 ug/mL |
| | | | | | HPTNXIM_00006 | 82 uL | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 500.681 ug/mL |
| ...HPDNXIM_00007 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 000007 | 1 mL | HPDNXTA_00010 | 10.2 mg | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 346.8 ug/mL |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 8262 ug/mL |
| | | | | | | | MNX | 1326 ug/mL |
| ...HPDNXTA_00010 | 04/27/15 | SRI International, Lot 11172009 | | | (Purchased Reagent) | | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 0.034 g/g |
| | | | | | | | hexahydro-1,3-dinitroso-5-nitro-1,3,5, triazine | 0.81 g/g |
| | | | | | | | MNX | 0.13 g/g |
| ...HPMNXIM_00005 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 00007 | 1 mL | HPMNXTA_00010 | 10.6 mg | MNX | 10494 ug/mL |
| ...HPMNXTA_00010 | 04/27/15 | SRI International, Lot MNX153179208 | | | (Purchased Reagent) | | MNX | 0.99 g/g |
| ...HPTNXIM_00006 | 04/27/15 | 04/28/14 | Acetonitrile, Lot 00007 | 1 mL | HPTNXTA_00010 | 11.7 mg | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 11700 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|-----------------------|----------|-----------|--|----------------------|----------------|---------------------|---|---------------|
| | | | | | Reagent ID | Volume Added | | |
| ...HPTNXTA_00010 | 04/27/15 | | SRI International, Lot 09192008 | | | (Purchased Reagent) | hexahydro-1,3,5-trinitroso-1,3,5-triazine | 1 g/g |
| LC6850IC_00007 | 01/07/15 | 07/07/14 | Millipore Water, Lot M05222014 | 25 mL | LC6850IM_00006 | 125 uL | Perchlorate | 5 ng/mL |
| .LC6850IM_00006 | 01/07/15 | 07/07/14 | Millipore Water, Lot M01062014 | 25 mL | LC6850TA_00006 | 25 uL | Perchlorate | 1 ug/mL |
| ..LC6850TA_00006 | 02/28/15 | | AccuStandard, Inc., Lot 213025072 | | | (Purchased Reagent) | Perchlorate | 1000 ug/mL |
| LC6850IS_00026 | 05/22/15 | 05/22/14 | Millipore Water, Lot M10072013 | 104 g | LC6850IS_00025 | 1.2522 g | 18-O Perchlorate | 1.00068 ug/mL |
| .LC6850IS_00025 | 02/27/24 | | Cambridge Isotope Laboratories, Lot SDDG-013 | | | (Purchased Reagent) | 18-O Perchlorate | 83.11 ug/mL |
| LC6850L1_00007 | 11/01/14 | 06/25/14 | Millipore Water, Lot M05222014 | 25 mL | LC6850IS_00026 | 250 uL | 18-O Perchlorate | 10.0068 ng/mL |
| | | | | | LC6850SP_00020 | 37.5 uL | Perchlorate | 0.15 ng/mL |
| .LC6850IS_00026 | 05/22/15 | 05/22/14 | Millipore Water, Lot M10072013 | 104 g | LC6850IS_00025 | 1.2522 g | 18-O Perchlorate | 1.00068 ug/mL |
| ..LC6850IS_00025 | 02/27/24 | | Cambridge Isotope Laboratories, Lot SDDG-013 | | | (Purchased Reagent) | 18-O Perchlorate | 83.11 ug/mL |
| .LC6850SP_00020 | 11/01/14 | 05/22/14 | Millipore Water, Lot M01062014 | 25 mL | LC6850SP_00019 | 2.5 mL | Perchlorate | 0.1 ug/mL |
| ..LC6850SP_00019 | 11/01/14 | 05/01/14 | Millipore Water, Lot 042914 | 50 mL | LC6850TA_00005 | 50 uL | Perchlorate | 1 ug/mL |
| ...LC6850TA_00005 | 01/06/15 | | Absolute Standards, Inc., Lot 121213 | | | (Purchased Reagent) | Perchlorate | 1000 ug/mL |
| LC6850L2_00006 | 11/01/14 | 05/22/14 | Millipore Water, Lot M05222014 | 25 mL | LC6850IS_00026 | 250 uL | 18-O Perchlorate | 10.0068 ng/mL |
| | | | | | LC6850SP_00020 | 75 uL | Perchlorate | 0.3 ng/mL |
| .LC6850IS_00026 | 05/22/15 | 05/22/14 | Millipore Water, Lot M10072013 | 104 g | LC6850IS_00025 | 1.2522 g | 18-O Perchlorate | 1.00068 ug/mL |
| ..LC6850IS_00025 | 02/27/24 | | Cambridge Isotope Laboratories, Lot SDDG-013 | | | (Purchased Reagent) | 18-O Perchlorate | 83.11 ug/mL |
| .LC6850SP_00020 | 11/01/14 | 05/22/14 | Millipore Water, Lot M01062014 | 25 mL | LC6850SP_00019 | 2.5 mL | Perchlorate | 0.1 ug/mL |
| ..LC6850SP_00019 | 11/01/14 | 05/01/14 | Millipore Water, Lot 042914 | 50 mL | LC6850TA_00005 | 50 uL | Perchlorate | 1 ug/mL |
| ...LC6850TA_00005 | 01/06/15 | | Absolute Standards, Inc., Lot 121213 | | | (Purchased Reagent) | Perchlorate | 1000 ug/mL |
| LC6850L3_00006 | 11/01/14 | 05/22/14 | Millipore Water, Lot M05222014 | 50 mL | LC6850SP_00020 | 250 uL | Perchlorate | 0.5 ng/mL |
| .LC6850SP_00020 | 11/01/14 | 05/22/14 | Millipore Water, Lot M01062014 | 25 mL | LC6850SP_00019 | 2.5 mL | Perchlorate | 0.1 ug/mL |
| ..LC6850SP_00019 | 11/01/14 | 05/01/14 | Millipore Water, Lot 042914 | 50 mL | LC6850TA_00005 | 50 uL | Perchlorate | 1 ug/mL |
| ...LC6850TA_00005 | 01/06/15 | | Absolute Standards, Inc., Lot 121213 | | | (Purchased Reagent) | Perchlorate | 1000 ug/mL |
| LC6850L3_00007 | 11/01/14 | 06/25/14 | Millipore Water, Lot M05222014 | 50 mL | LC6850IS_00026 | 500 uL | 18-O Perchlorate | 10.0068 ng/mL |
| | | | | | LC6850SP_00020 | 250 uL | Perchlorate | 0.5 ng/mL |
| .LC6850IS_00026 | 05/22/15 | 05/22/14 | Millipore Water, Lot M10072013 | 104 g | LC6850IS_00025 | 1.2522 g | 18-O Perchlorate | 1.00068 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|-----------------------|----------|--|--------------------------------|----------------------|---------------------|--------------|------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| ..LC6850IS_00025 | 02/27/24 | Cambridge Isotope Laboratories, Lot SDDG-013 | | | (Purchased Reagent) | | 18-O Perchlorate | 83.11 ug/mL |
| .LC6850SP_00020 | 11/01/14 | 05/22/14 | Millipore Water, Lot M01062014 | 25 mL | LC6850SP_00019 | 2.5 mL | Perchlorate | 0.1 ug/mL |
| ..LC6850SP_00019 | 11/01/14 | 05/01/14 | Millipore Water, Lot 042914 | 50 mL | LC6850TA_00005 | 50 uL | Perchlorate | 1 ug/mL |
| ...LC6850TA_00005 | 01/06/15 | Absolute Standards, Inc., Lot 121213 | | | (Purchased Reagent) | | Perchlorate | 1000 ug/mL |
| LC6850L4_00007 | 11/01/14 | 06/25/14 | Millipore Water, Lot M05222014 | 25 mL | LC6850IS_00026 | 250 uL | 18-O Perchlorate | 10.0068 ng/mL |
| | | | | | LC6850SP_00019 | 25 uL | Perchlorate | 1 ng/mL |
| .LC6850IS_00026 | 05/22/15 | 05/22/14 | Millipore Water, Lot M10072013 | 104 g | LC6850IS_00025 | 1.2522 g | 18-O Perchlorate | 1.00068 ug/mL |
| ..LC6850IS_00025 | 02/27/24 | Cambridge Isotope Laboratories, Lot SDDG-013 | | | (Purchased Reagent) | | 18-O Perchlorate | 83.11 ug/mL |
| .LC6850SP_00019 | 11/01/14 | 05/01/14 | Millipore Water, Lot 042914 | 50 mL | LC6850TA_00005 | 50 uL | Perchlorate | 1 ug/mL |
| ..LC6850TA_00005 | 01/06/15 | Absolute Standards, Inc., Lot 121213 | | | (Purchased Reagent) | | Perchlorate | 1000 ug/mL |
| LC6850L6_00009 | 11/01/14 | 06/30/14 | Millipore Water, Lot M05222014 | 25 mL | LC6850IS_00026 | 250 uL | 18-O Perchlorate | 10.0068 ng/mL |
| | | | | | LC6850SP_00019 | 125 uL | Perchlorate | 5 ng/mL |
| .LC6850IS_00026 | 05/22/15 | 05/22/14 | Millipore Water, Lot M10072013 | 104 g | LC6850IS_00025 | 1.2522 g | 18-O Perchlorate | 1.00068 ug/mL |
| ..LC6850IS_00025 | 02/27/24 | Cambridge Isotope Laboratories, Lot SDDG-013 | | | (Purchased Reagent) | | 18-O Perchlorate | 83.11 ug/mL |
| .LC6850SP_00019 | 11/01/14 | 05/01/14 | Millipore Water, Lot 042914 | 50 mL | LC6850TA_00005 | 50 uL | Perchlorate | 1 ug/mL |
| ..LC6850TA_00005 | 01/06/15 | Absolute Standards, Inc., Lot 121213 | | | (Purchased Reagent) | | Perchlorate | 1000 ug/mL |
| LC6850L7_00006 | 11/01/14 | 05/22/14 | Millipore Water, Lot M05222014 | 25 mL | LC6850IS_00026 | 250 uL | 18-O Perchlorate | 10.0068 ng/mL |
| | | | | | LC6850SP_00019 | 250 uL | Perchlorate | 10 ng/mL |
| .LC6850IS_00026 | 05/22/15 | 05/22/14 | Millipore Water, Lot M10072013 | 104 g | LC6850IS_00025 | 1.2522 g | 18-O Perchlorate | 1.00068 ug/mL |
| ..LC6850IS_00025 | 02/27/24 | Cambridge Isotope Laboratories, Lot SDDG-013 | | | (Purchased Reagent) | | 18-O Perchlorate | 83.11 ug/mL |
| .LC6850SP_00019 | 11/01/14 | 05/01/14 | Millipore Water, Lot 042914 | 50 mL | LC6850TA_00005 | 50 uL | Perchlorate | 1 ug/mL |
| ..LC6850TA_00005 | 01/06/15 | Absolute Standards, Inc., Lot 121213 | | | (Purchased Reagent) | | Perchlorate | 1000 ug/mL |
| LC6850L8_00006 | 11/01/14 | 05/22/14 | Millipore Water, Lot M05222014 | 25 mL | LC6850IS_00026 | 250 uL | 18-O Perchlorate | 10.0068 ng/mL |
| | | | | | LC6850SP_00019 | 500 uL | Perchlorate | 20 ng/mL |
| .LC6850IS_00026 | 05/22/15 | 05/22/14 | Millipore Water, Lot M10072013 | 104 g | LC6850IS_00025 | 1.2522 g | 18-O Perchlorate | 1.00068 ug/mL |
| ..LC6850IS_00025 | 02/27/24 | Cambridge Isotope Laboratories, Lot SDDG-013 | | | (Purchased Reagent) | | 18-O Perchlorate | 83.11 ug/mL |
| .LC6850SP_00019 | 11/01/14 | 05/01/14 | Millipore Water, Lot 042914 | 50 mL | LC6850TA_00005 | 50 uL | Perchlorate | 1 ug/mL |
| ..LC6850TA_00005 | 01/06/15 | Absolute Standards, Inc., Lot 121213 | | | (Purchased Reagent) | | Perchlorate | 1000 ug/mL |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|-----------------------|----------|--------------------------------------|-----------------------------|----------------------|---------------------|--------------|-------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| LC6850SP_00019 | 11/01/14 | 05/01/14 | Millipore Water, Lot 042914 | 50 mL | LC6850TA_00005 | 50 uL | Perchlorate | 1 ug/mL |
| .LC6850TA_00005 | 01/06/15 | Absolute Standards, Inc., Lot 121213 | | | (Purchased Reagent) | | Perchlorate | 1000 ug/mL |

Method 8330A

Nitroaromatics and Nitramines (HPLC)
by Method 8330A

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento

Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

Matrix: Water

Level: Low

GC Column (1): Synergi C18 ID: 4.6 (mm)

| Client Sample ID | Lab Sample ID | DNT1 # |
|------------------|----------------------|--------|
| 02Q14LCMW06SW | 250-19605-1 | 97 |
| | MB 320-45167/1-A | 96 |
| | LCS 320-45167/2-A | 96 |

DNT = 3,4-Dinitrotoluene

QC LIMITS
79-111

Column to be used to flag recovery values

FORM II 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Matrix: Water Level: Low Lab File ID: T000009.D
 Lab ID: LCS 320-45167/2-A Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|----------|--------------------------|--------------------------------|-----------------|---------------------|---|
| HMX | 1.00 | 1.10 | 110 | 67-115 | |
| RDX | 1.00 | 1.11 | 111 | 68-122 | |

Column to be used to flag recovery and RPD values

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: MB 320-45167/1-A
 Matrix: Water Date Extracted: 06/19/2014 13:10
 Lab File ID: (1) T000008.D Lab File ID: (2) _____
 Date Analyzed: (1) 06/20/2014 21:43 Date Analyzed: (2) _____
 Instrument ID: (1) LC11 Instrument ID: (2) _____
 GC Column: (1) Synergi C18 ID: 4.6(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|------------------|-------------------|--------------------|--------------------|
| | LCS 320-45167/2-A | 06/20/2014 22:39 | |
| 02Q14LCMW06SW | 250-19605-1 | 06/20/2014 23:36 | |

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Sample No.: CCV 320-45295/4 Date Analyzed: 06/20/2014 17:56
 Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6 (mm)
 Lab File ID (Standard): T000004.D Heated Purge: (Y/N) N
 Calibration ID: 7752

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

| | | | | DNT | | |
|----------------------------------|------------------|------------------|-------------|-------|--|--|
| | | | | RT # | | |
| CONTINUING CALIBRATION SURROGATE | | | | 32.49 | | |
| UPPER LIMIT | | | | 32.74 | | |
| LOWER LIMIT | | | | 32.24 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | LAB FILE ID | | | |
| CCV 320-45295/4 CCVRT | | 06/20/2014 17:56 | T000004.D | 32.49 | | |
| MB 320-45167/1-A | | 06/20/2014 21:43 | T000008.D | 32.50 | | |
| LCS 320-45167/2-A | | 06/20/2014 22:39 | T000009.D | 32.50 | | |
| 250-19605-1 | 02Q14LCMW06SW | 06/20/2014 23:36 | T000010.D | 32.50 | | |

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

| | |
|---|---|
| Lab Name: <u>TestAmerica Sacramento</u> | Job No.: <u>250-19605-2</u> |
| SDG No.: <u>76151.005 Phase 0008</u> | |
| Client Sample ID: <u>02Q14LCMW06SW</u> | Lab Sample ID: <u>250-19605-1</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>T000010.D</u> |
| Analysis Method: <u>8330A</u> | Date Collected: <u>06/13/2014 12:34</u> |
| Extraction Method: <u>8330-Prep</u> | Date Extracted: <u>06/19/2014 13:10</u> |
| Sample wt/vol: <u>986.2 (mL)</u> | Date Analyzed: <u>06/20/2014 23:36</u> |
| Con. Extract Vol.: <u>20 (mL)</u> | Dilution Factor: <u>1</u> |
| Injection Volume: <u>500 (uL)</u> | GC Column: <u>Synergi C18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____ | GPC Cleanup: (Y/N) <u>N</u> |
| Analysis Batch No.: <u>45295</u> | Units: <u>ug/L</u> |

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|-----------|---------------|--------|---|------|-------|
| 2691-41-0 | HMX | ND | | 0.10 | 0.037 |
| 121-82-4 | RDX | ND | | 0.10 | 0.066 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|----------|--------------------|------|---|--------|
| 610-39-9 | 3,4-Dinitrotoluene | 97 | | 79-111 |

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2 Analy Batch No.: 44625

SDG No.: 76151.005 Phase 0008

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/12/2014 17:50 Calibration End Date: 06/13/2014 08:00 Calibration ID: 7752

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|----------|-------------------|--------------|
| Level 1 | STD1 320-44625/4 | L000004.D |
| Level 2 | STD2 320-44625/5 | L000005.D |
| Level 3 | STD3 320-44625/6 | L000006.D |
| Level 4 | STD3 320-44625/15 | L000015.D |
| Level 5 | STD4 320-44625/7 | L000007.D |
| Level 6 | STD4 320-44625/16 | L000016.D |
| Level 7 | STD5 320-44625/8 | L000008.D |
| Level 8 | STD5 320-44625/17 | L000017.D |
| Level 9 | STD6 320-44625/9 | L000009.D |
| Level 10 | STD6 320-44625/18 | L000018.D |
| Level 11 | STD7 320-44625/10 | L000010.D |
| Level 12 | STD7 320-44625/19 | L000019.D |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 7 | LVL 8 | LVL 9 | LVL 10 | RT WINDOW | AVG RT |
|----------------------------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------|--------|
| | LVL 11 | LVL 12 | | | | | | | | | | |
| TNX | | 15.314 | | 15.327 | | 15.325 | | 15.341 | | 15.328 | 15.078 - 15.578 | 15.327 |
| DNX | | 19.167 | | 19.177 | | 19.169 | | 19.181 | | 19.178 | 18.928 - 19.428 | 19.174 |
| HMX | 20.528 20.517 | 20.531 | 20.531 | | 20.525 | | 20.524 | | 20.526 | | 20.276 - 20.776 | 20.526 |
| MNX | | 21.947 | | 21.954 | | 21.955 | | 21.954 | | 21.954 | 21.704 - 22.204 | 21.953 |
| RDX | 23.742 23.737 | 23.751 | 23.751 | | 23.752 | | 23.747 | | 23.752 | | 23.502 - 24.002 | 23.747 |
| 1,3,5-Trinitrobenzene | 25.682 25.673 | 25.685 | 25.684 | | 25.682 | | 25.677 | | 25.682 | | 25.432 - 25.932 | 25.681 |
| Picric acid | 26.152 26.010 | 26.141 | 26.127 | | 26.115 | | 26.094 | | 26.062 | | 25.812 - 26.312 | 26.100 |
| 1,3-Dinitrobenzene | 28.285 28.277 | 28.301 | 28.291 | | 28.289 | | 28.284 | | 28.286 | | 28.036 - 28.536 | 28.288 |
| 3,5-Dinitroaniline | 29.418 29.387 | 29.401 | 29.397 | | 29.399 | | 29.397 | | 29.396 | | 29.146 - 29.646 | 29.399 |
| Nitrobenzene | 29.752 29.747 | 29.775 | 29.757 | | 29.762 | | 29.761 | | 29.759 | | 29.509 - 30.009 | 29.759 |
| Tetryl | 30.225 30.197 | 30.208 | 30.201 | | 30.202 | | 30.201 | | 30.206 | | 29.956 - 30.456 | 30.206 |
| Nitroglycerin | 30.635 30.613 | 30.628 | 30.627 | | 30.625 | | 30.621 | | 30.622 | | 30.372 - 30.872 | 30.624 |
| 2,4,6-Trinitrotoluene | 31.338 31.337 | 31.341 | 31.344 | | 31.339 | | 31.337 | | 31.346 | | 31.096 - 31.596 | 31.340 |
| 4-Amino-2,6-dinitrotoluene | 32.218 32.203 | 32.211 | 32.207 | | 32.205 | | 32.211 | | 32.209 | | 31.959 - 32.459 | 32.209 |

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2 Analy Batch No.: 44625

SDG No.: 76151.005 Phase 0008

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/12/2014 17:50 Calibration End Date: 06/13/2014 08:00 Calibration ID: 7752

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 7 | LVL 8 | LVL 9 | LVL 10 | RT WINDOW | AVG RT |
|----------------------------|------------------|--------|--------|-------|--------|-------|--------|-------|--------|--------|-----------------|--------|
| | LVL 11 | LVL 12 | | | | | | | | | | |
| 2-Amino-4,6-dinitrotoluene | 32.845 32.827 | 32.845 | 32.851 | | 32.835 | | 32.834 | | 32.836 | | 32.586 - 33.086 | 32.839 |
| 2,6-Dinitrotoluene | 33.965 33.950 | 33.968 | 33.961 | | 33.949 | | 33.951 | | 33.956 | | 33.706 - 34.206 | 33.957 |
| 2,4-Dinitrotoluene | 34.322 34.307 | 34.315 | 34.311 | | 34.312 | | 34.311 | | 34.316 | | 34.066 - 34.566 | 34.313 |
| 2-Nitrotoluene | 37.008 36.966 | 36.991 | 36.977 | | 36.969 | | 36.967 | | 36.975 | | 36.725 - 37.225 | 36.979 |
| 4-Nitrotoluene | 38.165 38.146 | 38.138 | 38.174 | | 38.149 | | 38.150 | | 38.155 | | 37.905 - 38.405 | 38.154 |
| 3-Nitrotoluene | 39.582 39.556 | 39.561 | 39.564 | | 39.575 | | 39.564 | | 39.569 | | 39.319 - 39.819 | 39.567 |
| PETN | 40.608 40.540 | 40.531 | 40.557 | | 40.529 | | 40.544 | | 40.549 | | 40.299 - 40.799 | 40.551 |
| 3,4-Dinitrotoluene | 32.488 32.507 | 32.521 | 32.511 | | 32.515 | | 32.511 | | 32.516 | | 32.266 - 32.766 | 32.510 |

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2 Analy Batch No.: 44625

SDG No.: 76151.005 Phase 0008

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/12/2014 17:50 Calibration End Date: 06/13/2014 08:00 Calibration ID: 7752

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|----------|-------------------|--------------|
| Level 1 | STD1 320-44625/4 | L000004.D |
| Level 2 | STD2 320-44625/5 | L000005.D |
| Level 3 | STD3 320-44625/6 | L000006.D |
| Level 4 | STD3 320-44625/15 | L000015.D |
| Level 5 | STD4 320-44625/7 | L000007.D |
| Level 6 | STD4 320-44625/16 | L000016.D |
| Level 7 | STD5 320-44625/8 | L000008.D |
| Level 8 | STD5 320-44625/17 | L000017.D |
| Level 9 | STD6 320-44625/9 | L000009.D |
| Level 10 | STD6 320-44625/18 | L000018.D |
| Level 11 | STD7 320-44625/10 | L000010.D |
| Level 12 | STD7 320-44625/19 | L000019.D |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R ² OR COD | # | MIN R ² OR COD |
|-----------------------|----------------------------|--------------------------|----------------------------|----------------------------|------------|-------------|------------|----|---|--------|------|------|----------|-----------------------|--------|---------------------------|
| | LVL 1 LVL 5 LVL 9 | LVL 2 LVL 6 LVL 10 | LVL 3 LVL 7 LVL 11 | LVL 4 LVL 8 LVL 12 | | B | M1 | M2 | | | | | | | | |
| TNX | | 69.405 70.823 | | 69.805 74.838 67.268 | Ave | | 70.4280207 | | | 4.0 | | 20.0 | | | | |
| DNX | | 86.906 88.661 | | 88.176 93.328 84.441 | Ave | | 88.3025141 | | | 3.7 | | 20.0 | | | | |
| HMX | 102.00 92.880 93.455 | 98.700 | 103.90 95.510 86.400 | | Ave | | 96.1207143 | | | 6.2 | | 20.0 | | | | |
| MNX | | 108.20 109.78 | | 109.30 114.23 105.68 | Ave | | 109.440121 | | | 2.8 | | 20.0 | | | | |
| RDX | 100.60 93.560 93.035 | 103.60 | 101.95 95.630 85.312 | | Ave | | 96.2410000 | | | 6.6 | | 20.0 | | | | |
| 1,3,5-Trinitrobenzene | 309.80 219.82 217.90 | 258.90 | 245.75 221.69 206.65 | | Lin2 | 485.100888 | 213.253708 | | | | | | 0.9990 | | 0.9900 | |
| Picric acid | 181.70 191.41 181.77 | 182.45 | 186.74 190.84 164.36 | | Ave | | 182.753143 | | | 5.0 | | 20.0 | | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2 Analy Batch No.: 44625

SDG No.: 76151.005 Phase 0008

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/12/2014 17:50 Calibration End Date: 06/13/2014 08:00 Calibration ID: 7752

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R ² OR COD | # | MIN R ² OR COD |
|----------------------------|----------------------------|--------------------------|----------------------------|--------------------------|------------|-------------|------------|----|---|--------|------|------|----------|-----------------------|---|---------------------------|
| | LVL 1 LVL 5 LVL 9 | LVL 2 LVL 6 LVL 10 | LVL 3 LVL 7 LVL 11 | LVL 4 LVL 8 LVL 12 | | B | M1 | M2 | | | | | | | | |
| 1,3-Dinitrobenzene | 233.20 225.84 231.10 | 236.30 | 247.60 233.45 219.60 | | Ave | | 232.440857 | | | 3.8 | | 20.0 | | | | |
| 3,5-Dinitroaniline | 163.20 153.70 157.04 | 169.70 | 168.15 158.39 150.41 | | Ave | | 160.083571 | | | 4.5 | | 20.0 | | | | |
| Nitrobenzene | 117.60 104.60 105.32 | 105.10 | 114.15 106.73 98.654 | | Ave | | 107.449857 | | | 5.9 | | 20.0 | | | | |
| Tetryl | 140.60 126.70 131.04 | 136.40 | 136.90 131.42 127.80 | | Ave | | 132.980143 | | | 3.9 | | 20.0 | | | | |
| Nitroglycerin | 90.400 99.000 100.47 | 89.700 | 107.20 100.28 100.06 | | Ave | | 98.1572857 | | | 6.3 | | 20.0 | | | | |
| 2,4,6-Trinitrotoluene | 147.20 130.00 133.68 | 138.00 | 141.10 134.09 130.20 | | Ave | | 136.324000 | | | 4.6 | | 20.0 | | | | |
| 4-Amino-2,6-dinitrotoluene | 120.80 102.76 104.91 | 114.30 | 114.50 105.58 101.77 | | Ave | | 109.231000 | | | 6.7 | | 20.0 | | | | |
| 2-Amino-4,6-dinitrotoluene | 134.80 118.88 121.47 | 131.90 | 129.60 122.34 117.65 | | Ave | | 125.234286 | | | 5.4 | | 20.0 | | | | |
| 2,6-Dinitrotoluene | 101.00 80.640 82.325 | 91.700 | 90.400 82.690 79.648 | | Ave | | 86.9147143 | | | 9.0 | | 20.0 | | | | |
| 2,4-Dinitrotoluene | 155.20 135.88 137.71 | 145.10 | 148.55 138.45 133.55 | | Ave | | 142.062571 | | | 5.5 | | 20.0 | | | | |
| 2-Nitrotoluene | 73.800 60.600 60.600 | 65.900 | 67.650 61.260 57.646 | | Ave | | 63.9222857 | | | 8.7 | | 20.0 | | | | |
| 4-Nitrotoluene | 82.000 72.880 74.380 | 79.400 | 78.900 74.980 70.866 | | Ave | | 76.2008571 | | | 5.2 | | 20.0 | | | | |
| 3-Nitrotoluene | 80.600 66.920 68.460 | 73.300 | 76.700 68.820 65.144 | | Ave | | 71.4205714 | | | 7.9 | | 20.0 | | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2 Analy Batch No.: 44625

SDG No.: 76151.005 Phase 0008

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/12/2014 17:50 Calibration End Date: 06/13/2014 08:00 Calibration ID: 7752

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R ² OR COD | # | MIN R ² OR COD |
|--------------------|--------|--------|--------|--------|---------------|-------------|------------|----|---|--------|------|------|-------------|--------------------------|---|------------------------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| | LVL 5 | LVL 6 | LVL 7 | LVL 8 | | | | | | | | | | | | |
| | LVL 9 | LVL 10 | LVL 11 | LVL 12 | | | | | | | | | | | | |
| PETN | 68.200 | 53.800 | 63.900 | | Ave | | 58.5302857 | | | 9.1 | | 20.0 | | | | |
| | 56.320 | | 56.150 | | | | | | | | | | | | | |
| | 55.740 | | 55.602 | | | | | | | | | | | | | |
| 3,4-Dinitrotoluene | 91.800 | 90.900 | 83.300 | | Ave | | 81.4715714 | | | 9.0 | | 20.0 | | | | |
| | 76.880 | | 77.040 | | | | | | | | | | | | | |
| | 76.785 | | 73.596 | | | | | | | | | | | | | |

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2 Analy Batch No.: 44625

SDG No.: 76151.005 Phase 0008

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/12/2014 17:50 Calibration End Date: 06/13/2014 08:00 Calibration ID: 7752

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|----------|-------------------|--------------|
| Level 1 | STD1 320-44625/4 | L000004.D |
| Level 2 | STD2 320-44625/5 | L000005.D |
| Level 3 | STD3 320-44625/6 | L000006.D |
| Level 4 | STD3 320-44625/15 | L000015.D |
| Level 5 | STD4 320-44625/7 | L000007.D |
| Level 6 | STD4 320-44625/16 | L000016.D |
| Level 7 | STD5 320-44625/8 | L000008.D |
| Level 8 | STD5 320-44625/17 | L000017.D |
| Level 9 | STD6 320-44625/9 | L000009.D |
| Level 10 | STD6 320-44625/18 | L000018.D |
| Level 11 | STD7 320-44625/10 | L000010.D |
| Level 12 | STD7 320-44625/19 | L000019.D |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/ML) | | | | |
|-----------------------|------------|--------------------------|--------------------------|----------------|----------------|-----------------|-----------------------|--------------------------|----------------|----------------|-----------------|
| | | LVL 1 LVL 6 LVL 11 | LVL 2 LVL 7 LVL 12 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 LVL 10 | LVL 6 LVL 11 | LVL 2 LVL 7 LVL 12 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 LVL 10 |
| TNX | Ave | 3475 | 33680 | 7494 | 1398 | 14184 | 50.1 | 501 | 100 | 20.0 | 200 |
| DNX | Ave | 4344 | 42208 | 9330 | 1763 | 17727 | 50.0 | 500 | 100.0 | 20.0 | 200 |
| HMX | Ave | 510 | 987 9551 | 2078 | 18691 | 4644 | 5.00 | 10.0 100 | 20.0 | 200 | 50.0 |
| MNX | Ave | 43200 | 5410 | 11423 | 2186 | 21956 | 50.0 | 500 | 100.0 | 20.0 | 200 |
| RDX | Ave | 503 | 1036 9563 | 2039 | 18607 | 4678 | 5.00 | 10.0 100 | 20.0 | 200 | 50.0 |
| 1,3,5-Trinitrobenzene | Lin2 | 42656 1549 | 2589 22169 | 4915 | 43580 | 10991 | 5.00 | 10.0 100 | 20.0 | 200 | 50.0 |
| Picric acid | Ave | 1817 | 3649 38167 | 9337 | 90887 | 19141 | 10.0 | 20.0 200 | 50.0 | 500 | 100 |
| 1,3-Dinitrobenzene | Ave | 164363 1166 | 2363 23345 | 4952 | 46220 | 11292 | 5.00 | 10.0 100 | 20.0 | 200 | 50.0 |
| | | 109798 | | | | | 500 | | | | |

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2 Analy Batch No.: 44625

SDG No.: 76151.005 Phase 0008

Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/12/2014 17:50 Calibration End Date: 06/13/2014 08:00 Calibration ID: 7752

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/ML) | | | | |
|----------------------------|------------|--------------------------|--------------------------|----------------|----------------|-----------------|--------------------------|--------------------------|----------------|----------------|-----------------|
| | | LVL 1 LVL 6 LVL 11 | LVL 2 LVL 7 LVL 12 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 LVL 10 | LVL 1 LVL 6 LVL 11 | LVL 2 LVL 7 LVL 12 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 LVL 10 |
| 3,5-Dinitroaniline | Ave | 816 75205 | 1697 15839 | 3363 | 31407 | 7685 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |
| Nitrobenzene | Ave | 588 49327 | 1051 10673 | 2283 | 21063 | 5230 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |
| Tetryl | Ave | 703 63898 | 1364 13142 | 2738 | 26209 | 6335 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |
| Nitroglycerin | Ave | 452 50028 | 897 10028 | 2144 | 20093 | 4950 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |
| 2,4,6-Trinitrotoluene | Ave | 736 65099 | 1380 13409 | 2822 | 26736 | 6500 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |
| 4-Amino-2,6-dinitrotoluene | Ave | 604 50886 | 1143 10558 | 2290 | 20981 | 5138 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |
| 2-Amino-4,6-dinitrotoluene | Ave | 674 58825 | 1319 12234 | 2592 | 24294 | 5944 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |
| 2,6-Dinitrotoluene | Ave | 505 39824 | 917 8269 | 1808 | 16465 | 4032 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |
| 2,4-Dinitrotoluene | Ave | 776 66774 | 1451 13845 | 2971 | 27542 | 6794 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |
| 2-Nitrotoluene | Ave | 369 28823 | 659 6126 | 1353 | 12120 | 3030 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |
| 4-Nitrotoluene | Ave | 410 35433 | 794 7498 | 1578 | 14876 | 3644 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |
| 3-Nitrotoluene | Ave | 403 32572 | 733 6882 | 1534 | 13692 | 3346 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |
| PETN | Ave | 341 27801 | 538 5615 | 1278 | 11148 | 2816 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2 Analy Batch No.: 44625
SDG No.: 76151.005 Phase 0008
Instrument ID: LC11 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/12/2014 17:50 Calibration End Date: 06/13/2014 08:00 Calibration ID: 7752

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/ML) | | | | |
|--------------------|------------|--------------------------|--------------------------|----------------|----------------|-----------------|--------------------------|--------------------------|----------------|----------------|-----------------|
| | | LVL 1 LVL 6 LVL 11 | LVL 2 LVL 7 LVL 12 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 LVL 10 | LVL 1 LVL 6 LVL 11 | LVL 2 LVL 7 LVL 12 | LVL 3 LVL 8 | LVL 4 LVL 9 | LVL 5 LVL 10 |
| 3,4-Dinitrotoluene | Ave | 459 36798 | 909 7704 | 1666 | 15357 | 3844 | 5.00 500 | 10.0 100 | 20.0 | 200 | 50.0 |

Curve Type Legend:

| |
|----------------------------------|
| Ave = Average by Height |
| Lin2 = Linear 1/conc^2 by height |

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: ICV 320-44625/12 Calibration Date: 06/13/2014 01:23
 Instrument ID: LC11 Calib Start Date: 06/12/2014 17:50
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 06/13/2014 08:00
 Lab File ID: L000012.D Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|----------------------------|------------|--------|-------|--------|-------------|--------------|---------|--------|
| HMX | Ave | 96.12 | 98.65 | | 205 | 200 | 2.6 | 15.0 |
| RDX | Ave | 96.24 | 96.83 | | 201 | 200 | 0.6 | 15.0 |
| 1,3,5-Trinitrobenzene | Lin2 | | 217.8 | | 202 | 200 | 1.0 | 15.0 |
| Picric acid | Ave | 182.8 | 183.3 | | 502 | 500 | 0.3 | 15.0 |
| 1,3-Dinitrobenzene | Ave | 232.4 | 236.0 | | 203 | 200 | 1.5 | 15.0 |
| 3,5-Dinitroaniline | Ave | 160.1 | 164.0 | | 205 | 200 | 2.4 | 15.0 |
| Nitrobenzene | Ave | 107.4 | 108.3 | | 202 | 200 | 0.8 | 15.0 |
| Tetryl | Ave | 133.0 | 133.4 | | 201 | 200 | 0.3 | 15.0 |
| Nitroglycerin | Ave | 98.16 | 104.5 | | 213 | 200 | 6.5 | 15.0 |
| 2,4,6-Trinitrotoluene | Ave | 136.3 | 138.2 | | 203 | 200 | 1.4 | 15.0 |
| 4-Amino-2,6-dinitrotoluene | Ave | 109.2 | 108.3 | | 198 | 200 | -0.9 | 15.0 |
| 2-Amino-4,6-dinitrotoluene | Ave | 125.2 | 123.5 | | 197 | 200 | -1.4 | 15.0 |
| 2,6-Dinitrotoluene | Ave | 86.91 | 84.82 | | 195 | 200 | -2.4 | 15.0 |
| 2,4-Dinitrotoluene | Ave | 142.1 | 140.4 | | 198 | 200 | -1.2 | 15.0 |
| 2-Nitrotoluene | Ave | 63.92 | 60.46 | | 189 | 200 | -5.4 | 15.0 |
| 4-Nitrotoluene | Ave | 76.20 | 73.66 | | 193 | 200 | -3.3 | 15.0 |
| 3-Nitrotoluene | Ave | 71.42 | 72.35 | | 203 | 200 | 1.3 | 15.0 |
| PETN | Ave | 58.53 | 54.28 | | 185 | 200 | -7.3 | 15.0 |
| Ethylene glycol dinitrate | None | | | | | 200 | -100.0* | 15.0 |

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: ICV 320-44625/12 Calibration Date: 06/13/2014 01:23
 Instrument ID: LC11 Calib Start Date: 06/12/2014 17:50
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 06/13/2014 08:00
 Lab File ID: L000012.D

| Analyte | RT | RT WINDOW | |
|----------------------------|-------|-----------|-------|
| | | FROM | TO |
| HMX | 20.52 | 20.28 | 20.78 |
| RDX | 23.75 | 23.50 | 24.00 |
| 1,3,5-Trinitrobenzene | 25.68 | 25.43 | 25.93 |
| Picric acid | 26.06 | 25.81 | 26.31 |
| 1,3-Dinitrobenzene | 28.28 | 28.04 | 28.54 |
| 3,5-Dinitroaniline | 29.40 | 29.15 | 29.65 |
| Nitrobenzene | 29.76 | 29.51 | 30.01 |
| Tetryl | 30.20 | 29.96 | 30.46 |
| Nitroglycerin | 30.62 | 30.37 | 30.87 |
| 2,4,6-Trinitrotoluene | 31.34 | 31.10 | 31.60 |
| 4-Amino-2,6-dinitrotoluene | 32.21 | 31.96 | 32.46 |
| 2-Amino-4,6-dinitrotoluene | 32.83 | 32.59 | 33.09 |
| 2,6-Dinitrotoluene | 33.95 | 33.71 | 34.21 |
| 2,4-Dinitrotoluene | 34.31 | 34.07 | 34.57 |
| 2-Nitrotoluene | 36.97 | 36.73 | 37.23 |
| 4-Nitrotoluene | 38.15 | 37.91 | 38.41 |
| 3-Nitrotoluene | 39.56 | 39.32 | 39.82 |
| PETN | 40.54 | 40.30 | 40.80 |
| Ethylene glycol dinitrate | | | |

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: LODV 320-44625/13 Calibration Date: 06/13/2014 02:19
 Instrument ID: LC11 Calib Start Date: 06/12/2014 17:50
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 06/13/2014 08:00
 Lab File ID: L000013.D Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|----------------------------|------------|--------|-------|--------|-------------|--------------|--------|--------|
| HMX | Ave | 96.12 | 105.4 | | 5.48 | 5.00 | 9.7 | |
| RDX | Ave | 96.24 | 108.0 | | 5.61 | 5.00 | 12.2 | |
| 1,3,5-Trinitrobenzene | Lin2 | | 302.8 | | 4.82 | 5.00 | -3.5 | |
| Picric acid | Ave | 182.8 | 183.2 | | 20.0 | 20.0 | 0.2 | |
| 1,3-Dinitrobenzene | Ave | 232.4 | 246.2 | | 5.30 | 5.00 | 5.9 | |
| 3,5-Dinitroaniline | Ave | 160.1 | 169.2 | | 5.28 | 5.00 | 5.7 | |
| Nitrobenzene | Ave | 107.4 | 112.0 | | 5.21 | 5.00 | 4.2 | |
| Tetryl | Ave | 133.0 | 139.4 | | 5.24 | 5.00 | 4.8 | |
| Nitroglycerin | Ave | 98.16 | 100.7 | | 20.5 | 20.0 | 2.5 | |
| 2,4,6-Trinitrotoluene | Ave | 136.3 | 142.6 | | 5.23 | 5.00 | 4.6 | |
| 4-Amino-2,6-dinitrotoluene | Ave | 109.2 | 115.8 | | 5.30 | 5.00 | 6.0 | |
| 2-Amino-4,6-dinitrotoluene | Ave | 125.2 | 132.4 | | 5.29 | 5.00 | 5.7 | |
| 2,6-Dinitrotoluene | Ave | 86.91 | 90.40 | | 5.20 | 5.00 | 4.0 | |
| 2,4-Dinitrotoluene | Ave | 142.1 | 148.2 | | 5.22 | 5.00 | 4.3 | |
| 2-Nitrotoluene | Ave | 63.92 | 67.40 | | 5.27 | 5.00 | 5.4 | |
| 4-Nitrotoluene | Ave | 76.20 | 85.60 | | 5.62 | 5.00 | 12.3 | |
| 3-Nitrotoluene | Ave | 71.42 | 74.60 | | 5.22 | 5.00 | 4.5 | |
| PETN | Ave | 58.53 | 57.85 | | 19.8 | 20.0 | -1.2 | |
| Ethylene glycol dinitrate | None | | | | | 5.00 | -100.0 | |
| 3,4-Dinitrotoluene | Ave | 81.47 | 90.20 | | 5.54 | 5.00 | 10.7 | |

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: LODV 320-44625/13 Calibration Date: 06/13/2014 02:19
 Instrument ID: LC11 Calib Start Date: 06/12/2014 17:50
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 06/13/2014 08:00
 Lab File ID: L000013.D

| Analyte | RT | RT WINDOW | |
|----------------------------|-------|-----------|-------|
| | | FROM | TO |
| HMX | 20.53 | 20.28 | 20.78 |
| MNX | 21.93 | 21.70 | 22.20 |
| RDX | 23.77 | 23.50 | 24.00 |
| 1,3,5-Trinitrobenzene | 25.68 | 25.43 | 25.93 |
| Picric acid | 26.15 | 25.81 | 26.31 |
| 1,3-Dinitrobenzene | 28.29 | 28.04 | 28.54 |
| 3,5-Dinitroaniline | 29.40 | 29.15 | 29.65 |
| Nitrobenzene | 29.77 | 29.51 | 30.01 |
| Tetryl | 30.20 | 29.96 | 30.46 |
| Nitroglycerin | 30.62 | 30.37 | 30.87 |
| 2,4,6-Trinitrotoluene | 31.33 | 31.10 | 31.60 |
| 4-Amino-2,6-dinitrotoluene | 32.20 | 31.96 | 32.46 |
| 2-Amino-4,6-dinitrotoluene | 32.83 | 32.59 | 33.09 |
| 2,6-Dinitrotoluene | 33.97 | 33.71 | 34.21 |
| 2,4-Dinitrotoluene | 34.31 | 34.07 | 34.57 |
| 2-Nitrotoluene | 36.98 | 36.73 | 37.23 |
| 4-Nitrotoluene | 38.16 | 37.91 | 38.41 |
| 3-Nitrotoluene | 39.56 | 39.32 | 39.82 |
| PETN | 40.52 | 40.30 | 40.80 |
| DNX | | | |
| Ethylene glycol dinitrate | | | |
| TNX | | | |
| 3,4-Dinitrotoluene | 32.51 | 32.27 | 32.77 |

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCV 320-45295/4 Calibration Date: 06/20/2014 17:56
 Instrument ID: LC11 Calib Start Date: 06/12/2014 17:50
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 06/13/2014 08:00
 Lab File ID: T000004.D Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|----------------------------|------------|--------|-------|--------|-------------|--------------|------|--------|
| HMX | Ave | 96.12 | 98.61 | | 103 | 100 | 2.6 | 15.0 |
| RDX | Ave | 96.24 | 98.42 | | 102 | 100 | 2.3 | 15.0 |
| 1,3,5-Trinitrobenzene | Lin2 | | 224.4 | | 103 | 100 | 2.9 | 15.0 |
| Picric acid | Ave | 182.8 | 198.6 | | 217 | 200 | 8.6 | 15.0 |
| 1,3-Dinitrobenzene | Ave | 232.4 | 239.2 | | 103 | 100 | 2.9 | 15.0 |
| 3,5-Dinitroaniline | Ave | 160.1 | 163.1 | | 102 | 100 | 1.9 | 15.0 |
| Nitrobenzene | Ave | 107.4 | 108.4 | | 101 | 100 | 0.9 | 15.0 |
| Tetryl | Ave | 133.0 | 135.1 | | 102 | 100 | 1.6 | 15.0 |
| Nitroglycerin | Ave | 98.16 | 102.9 | | 105 | 100 | 4.8 | 15.0 |
| 2,4,6-Trinitrotoluene | Ave | 136.3 | 137.4 | | 101 | 100 | 0.8 | 15.0 |
| 4-Amino-2,6-dinitrotoluene | Ave | 109.2 | 108.8 | | 99.6 | 100 | -0.4 | 15.0 |
| 2-Amino-4,6-dinitrotoluene | Ave | 125.2 | 126.4 | | 101 | 100 | 0.9 | 15.0 |
| 2,6-Dinitrotoluene | Ave | 86.91 | 85.05 | | 97.9 | 100 | -2.1 | 15.0 |
| 2,4-Dinitrotoluene | Ave | 142.1 | 142.0 | | 100 | 100 | -0.0 | 15.0 |
| 2-Nitrotoluene | Ave | 63.92 | 62.50 | | 97.8 | 100 | -2.2 | 15.0 |
| 4-Nitrotoluene | Ave | 76.20 | 76.46 | | 100 | 100 | 0.3 | 15.0 |
| 3-Nitrotoluene | Ave | 71.42 | 70.40 | | 98.6 | 100 | -1.4 | 15.0 |
| PETN | Ave | 58.53 | 56.84 | | 97.1 | 100 | -2.9 | 15.0 |
| 3,4-Dinitrotoluene | Ave | 81.47 | 78.64 | | 96.5 | 100 | -3.5 | 15.0 |

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCV 320-45295/4 Calibration Date: 06/20/2014 17:56
 Instrument ID: LC11 Calib Start Date: 06/12/2014 17:50
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 06/13/2014 08:00
 Lab File ID: T000004.D

| Analyte | RT | RT WINDOW | |
|----------------------------|-------|-----------|-------|
| | | FROM | TO |
| HMX | 20.53 | 20.28 | 20.78 |
| RDX | 23.73 | 23.48 | 23.98 |
| 1,3,5-Trinitrobenzene | 25.66 | 25.41 | 25.91 |
| Picric acid | 26.06 | 25.81 | 26.31 |
| 1,3-Dinitrobenzene | 28.26 | 28.01 | 28.51 |
| 3,5-Dinitroaniline | 29.36 | 29.11 | 29.61 |
| Nitrobenzene | 29.72 | 29.47 | 29.97 |
| Tetryl | 30.18 | 29.93 | 30.43 |
| Nitroglycerin | 30.59 | 30.34 | 30.84 |
| 2,4,6-Trinitrotoluene | 31.31 | 31.06 | 31.56 |
| 4-Amino-2,6-dinitrotoluene | 32.16 | 31.91 | 32.41 |
| 2-Amino-4,6-dinitrotoluene | 32.78 | 32.53 | 33.03 |
| 2,6-Dinitrotoluene | 33.90 | 33.65 | 34.15 |
| 2,4-Dinitrotoluene | 34.26 | 34.01 | 34.51 |
| 2-Nitrotoluene | 36.90 | 36.65 | 37.15 |
| 4-Nitrotoluene | 38.09 | 37.84 | 38.34 |
| 3-Nitrotoluene | 39.48 | 39.23 | 39.73 |
| PETN | 40.50 | 40.25 | 40.75 |
| 3,4-Dinitrotoluene | 32.49 | 32.24 | 32.74 |

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCV 320-45295/14 Calibration Date: 06/21/2014 03:22
 Instrument ID: LC11 Calib Start Date: 06/12/2014 17:50
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 06/13/2014 08:00
 Lab File ID: T000014.D Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|----------------------------|------------|--------|-------|--------|-------------|--------------|------|--------|
| HMX | Ave | 96.12 | 96.82 | | 50.4 | 50.0 | 0.7 | 15.0 |
| RDX | Ave | 96.24 | 96.48 | | 50.1 | 50.0 | 0.2 | 15.0 |
| 1,3,5-Trinitrobenzene | Lin2 | | 220.2 | | 49.3 | 50.0 | -1.3 | 15.0 |
| Picric acid | Ave | 182.8 | 199.1 | | 109 | 100 | 8.9 | 15.0 |
| 1,3-Dinitrobenzene | Ave | 232.4 | 232.7 | | 50.1 | 50.0 | 0.1 | 15.0 |
| 3,5-Dinitroaniline | Ave | 160.1 | 158.4 | | 49.5 | 50.0 | -1.1 | 15.0 |
| Nitrobenzene | Ave | 107.4 | 104.7 | | 48.7 | 50.0 | -2.5 | 15.0 |
| Tetryl | Ave | 133.0 | 130.7 | | 49.1 | 50.0 | -1.7 | 15.0 |
| Nitroglycerin | Ave | 98.16 | 101.8 | | 51.9 | 50.0 | 3.8 | 15.0 |
| 2,4,6-Trinitrotoluene | Ave | 136.3 | 134.1 | | 49.2 | 50.0 | -1.7 | 15.0 |
| 4-Amino-2,6-dinitrotoluene | Ave | 109.2 | 105.6 | | 48.3 | 50.0 | -3.3 | 15.0 |
| 2-Amino-4,6-dinitrotoluene | Ave | 125.2 | 122.6 | | 48.9 | 50.0 | -2.1 | 15.0 |
| 2,6-Dinitrotoluene | Ave | 86.91 | 82.28 | | 47.3 | 50.0 | -5.3 | 15.0 |
| 2,4-Dinitrotoluene | Ave | 142.1 | 137.7 | | 48.5 | 50.0 | -3.1 | 15.0 |
| 2-Nitrotoluene | Ave | 63.92 | 60.72 | | 47.5 | 50.0 | -5.0 | 15.0 |
| 4-Nitrotoluene | Ave | 76.20 | 74.34 | | 48.8 | 50.0 | -2.4 | 15.0 |
| 3-Nitrotoluene | Ave | 71.42 | 68.52 | | 48.0 | 50.0 | -4.1 | 15.0 |
| PETN | Ave | 58.53 | 57.96 | | 49.5 | 50.0 | -1.0 | 15.0 |
| 3,4-Dinitrotoluene | Ave | 81.47 | 77.20 | | 47.4 | 50.0 | -5.2 | 15.0 |

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCV 320-45295/14 Calibration Date: 06/21/2014 03:22
 Instrument ID: LC11 Calib Start Date: 06/12/2014 17:50
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 06/13/2014 08:00
 Lab File ID: T000014.D

| Analyte | RT | RT WINDOW | |
|----------------------------|-------|-----------|-------|
| | | FROM | TO |
| HMX | 20.51 | 20.26 | 20.76 |
| RDX | 23.73 | 23.48 | 23.98 |
| 1,3,5-Trinitrobenzene | 25.67 | 25.42 | 25.92 |
| Picric acid | 26.11 | 25.86 | 26.36 |
| 1,3-Dinitrobenzene | 28.27 | 28.02 | 28.52 |
| 3,5-Dinitroaniline | 29.37 | 29.12 | 29.62 |
| Nitrobenzene | 29.74 | 29.49 | 29.99 |
| Tetryl | 30.19 | 29.94 | 30.44 |
| Nitroglycerin | 30.60 | 30.35 | 30.85 |
| 2,4,6-Trinitrotoluene | 31.32 | 31.07 | 31.57 |
| 4-Amino-2,6-dinitrotoluene | 32.17 | 31.92 | 32.42 |
| 2-Amino-4,6-dinitrotoluene | 32.80 | 32.55 | 33.05 |
| 2,6-Dinitrotoluene | 33.91 | 33.66 | 34.16 |
| 2,4-Dinitrotoluene | 34.28 | 34.03 | 34.53 |
| 2-Nitrotoluene | 36.93 | 36.68 | 37.18 |
| 4-Nitrotoluene | 38.11 | 37.86 | 38.36 |
| 3-Nitrotoluene | 39.51 | 39.26 | 39.76 |
| PETN | 40.50 | 40.25 | 40.75 |
| 3,4-Dinitrotoluene | 32.50 | 32.25 | 32.75 |

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCV 320-45295/19 Calibration Date: 06/21/2014 08:06
 Instrument ID: LC11 Calib Start Date: 06/12/2014 17:50
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 06/13/2014 08:00
 Lab File ID: T000019.D Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|----------------------------|------------|--------|-------|--------|-------------|--------------|------|--------|
| HMX | Ave | 96.12 | 96.74 | | 50.3 | 50.0 | 0.6 | 15.0 |
| RDX | Ave | 96.24 | 96.64 | | 50.2 | 50.0 | 0.4 | 15.0 |
| 1,3,5-Trinitrobenzene | Lin2 | | 220.2 | | 49.3 | 50.0 | -1.3 | 15.0 |
| Picric acid | Ave | 182.8 | 198.4 | | 109 | 100 | 8.5 | 15.0 |
| 1,3-Dinitrobenzene | Ave | 232.4 | 232.7 | | 50.1 | 50.0 | 0.1 | 15.0 |
| 3,5-Dinitroaniline | Ave | 160.1 | 158.6 | | 49.5 | 50.0 | -0.9 | 15.0 |
| Nitrobenzene | Ave | 107.4 | 103.8 | | 48.3 | 50.0 | -3.4 | 15.0 |
| Tetryl | Ave | 133.0 | 130.8 | | 49.2 | 50.0 | -1.6 | 15.0 |
| Nitroglycerin | Ave | 98.16 | 102.3 | | 52.1 | 50.0 | 4.3 | 15.0 |
| 2,4,6-Trinitrotoluene | Ave | 136.3 | 134.5 | | 49.3 | 50.0 | -1.3 | 15.0 |
| 4-Amino-2,6-dinitrotoluene | Ave | 109.2 | 106.4 | | 48.7 | 50.0 | -2.6 | 15.0 |
| 2-Amino-4,6-dinitrotoluene | Ave | 125.2 | 122.9 | | 49.1 | 50.0 | -1.8 | 15.0 |
| 2,6-Dinitrotoluene | Ave | 86.91 | 83.24 | | 47.9 | 50.0 | -4.2 | 15.0 |
| 2,4-Dinitrotoluene | Ave | 142.1 | 138.6 | | 48.8 | 50.0 | -2.5 | 15.0 |
| 2-Nitrotoluene | Ave | 63.92 | 59.96 | | 46.9 | 50.0 | -6.2 | 15.0 |
| 4-Nitrotoluene | Ave | 76.20 | 73.64 | | 48.3 | 50.0 | -3.4 | 15.0 |
| 3-Nitrotoluene | Ave | 71.42 | 67.48 | | 47.2 | 50.0 | -5.5 | 15.0 |
| PETN | Ave | 58.53 | 58.68 | | 50.1 | 50.0 | 0.3 | 15.0 |
| 3,4-Dinitrotoluene | Ave | 81.47 | 77.68 | | 47.7 | 50.0 | -4.7 | 15.0 |

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCV 320-45295/19 Calibration Date: 06/21/2014 08:06
 Instrument ID: LC11 Calib Start Date: 06/12/2014 17:50
 GC Column: Synergi C18 ID: 4.60 (mm) Calib End Date: 06/13/2014 08:00
 Lab File ID: T000019.D

| Analyte | RT | RT WINDOW | |
|----------------------------|-------|-----------|-------|
| | | FROM | TO |
| HMX | 20.51 | 20.26 | 20.76 |
| RDX | 23.72 | 23.47 | 23.97 |
| 1,3,5-Trinitrobenzene | 25.66 | 25.41 | 25.91 |
| Picric acid | 26.11 | 25.86 | 26.36 |
| 1,3-Dinitrobenzene | 28.26 | 28.01 | 28.51 |
| 3,5-Dinitroaniline | 29.36 | 29.11 | 29.61 |
| Nitrobenzene | 29.72 | 29.47 | 29.97 |
| Tetryl | 30.17 | 29.92 | 30.42 |
| Nitroglycerin | 30.58 | 30.33 | 30.83 |
| 2,4,6-Trinitrotoluene | 31.30 | 31.05 | 31.55 |
| 4-Amino-2,6-dinitrotoluene | 32.16 | 31.91 | 32.41 |
| 2-Amino-4,6-dinitrotoluene | 32.78 | 32.53 | 33.03 |
| 2,6-Dinitrotoluene | 33.90 | 33.65 | 34.15 |
| 2,4-Dinitrotoluene | 34.26 | 34.01 | 34.51 |
| 2-Nitrotoluene | 36.91 | 36.66 | 37.16 |
| 4-Nitrotoluene | 38.07 | 37.82 | 38.32 |
| 3-Nitrotoluene | 39.49 | 39.24 | 39.74 |
| PETN | 40.46 | 40.21 | 40.71 |
| 3,4-Dinitrotoluene | 32.48 | 32.23 | 32.73 |

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Client Sample ID: _____ Lab Sample ID: MB 320-45167/1-A
 Matrix: Water Lab File ID: T000008.D
 Analysis Method: 8330A Date Collected: _____
 Extraction Method: 8330-Prep Date Extracted: 06/19/2014 13:10
 Sample wt/vol: 1000 (mL) Date Analyzed: 06/20/2014 21:43
 Con. Extract Vol.: 20 (mL) Dilution Factor: 1
 Injection Volume: 500 (uL) GC Column: Synergi C18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 45295 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|-----------|---------------|--------|---|------|-------|
| 2691-41-0 | HMX | ND | | 0.10 | 0.036 |
| 121-82-4 | RDX | ND | | 0.10 | 0.065 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|----------|--------------------|------|---|--------|
| 610-39-9 | 3,4-Dinitrotoluene | 96 | | 79-111 |

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Client Sample ID: _____ Lab Sample ID: LCS 320-45167/2-A
 Matrix: Water Lab File ID: T000009.D
 Analysis Method: 8330A Date Collected: _____
 Extraction Method: 8330-Prep Date Extracted: 06/19/2014 13:10
 Sample wt/vol: 1000 (mL) Date Analyzed: 06/20/2014 22:39
 Con. Extract Vol.: 20 (mL) Dilution Factor: 1
 Injection Volume: 500 (uL) GC Column: Synergi C18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 45295 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|-----------|---------------|--------|---|------|-------|
| 2691-41-0 | HMX | 1.10 | | 0.10 | 0.036 |
| 121-82-4 | RDX | 1.11 | | 0.10 | 0.065 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|----------|--------------------|------|---|--------|
| 610-39-9 | 3,4-Dinitrotoluene | 96 | | 79-111 |

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

Instrument ID: LC11 Start Date: 06/12/2014 16:53

Analysis Batch Number: 44625 End Date: 06/13/2014 10:49

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|----------------------|------------------|------------------|-----------------|-------------|----------------------|
| ZZZZZ | | 06/12/2014 16:53 | 1 | | Synergi C18 4.6 (mm) |
| STD1 320-44625/4 IC | | 06/12/2014 17:50 | 1 | L000004.D | Synergi C18 4.6 (mm) |
| STD2 320-44625/5 IC | | 06/12/2014 18:46 | 1 | L000005.D | Synergi C18 4.6 (mm) |
| STD3 320-44625/6 IC | | 06/12/2014 19:43 | 1 | L000006.D | Synergi C18 4.6 (mm) |
| STD4 320-44625/7 IC | | 06/12/2014 20:40 | 1 | L000007.D | Synergi C18 4.6 (mm) |
| STD5 320-44625/8 IC | | 06/12/2014 21:36 | 1 | L000008.D | Synergi C18 4.6 (mm) |
| STD6 320-44625/9 IC | | 06/12/2014 22:33 | 1 | L000009.D | Synergi C18 4.6 (mm) |
| STD7 320-44625/10 IC | | 06/12/2014 23:29 | 1 | L000010.D | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/13/2014 00:26 | 1 | | Synergi C18 4.6 (mm) |
| ICV 320-44625/12 | | 06/13/2014 01:23 | 1 | L000012.D | Synergi C18 4.6 (mm) |
| LODV 320-44625/13 | | 06/13/2014 02:19 | 1 | L000013.D | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/13/2014 03:16 | 1 | | Synergi C18 4.6 (mm) |
| STD3 320-44625/15 IC | | 06/13/2014 04:13 | 1 | L000015.D | Synergi C18 4.6 (mm) |
| STD4 320-44625/16 IC | | 06/13/2014 05:10 | 1 | L000016.D | Synergi C18 4.6 (mm) |
| STD5 320-44625/17 IC | | 06/13/2014 06:07 | 1 | L000017.D | Synergi C18 4.6 (mm) |
| STD6 320-44625/18 IC | | 06/13/2014 07:03 | 1 | L000018.D | Synergi C18 4.6 (mm) |
| STD7 320-44625/19 IC | | 06/13/2014 08:00 | 1 | L000019.D | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/13/2014 08:55 | 1 | | Synergi C18 4.6 (mm) |
| ICV 320-44625/21 | | 06/13/2014 09:52 | 1 | | Synergi C18 4.6 (mm) |
| LODV 320-44625/22 | | 06/13/2014 10:49 | 1 | | Synergi C18 4.6 (mm) |

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

Instrument ID: LC11 Start Date: 06/20/2014 17:56

Analysis Batch Number: 45295 End Date: 06/21/2014 17:32

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---------------------------|------------------|------------------|-----------------|-------------|----------------------|
| CCV 320-45295/4 CCVRT | | 06/20/2014 17:56 | 1 | T000004.D | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/20/2014 19:49 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/20/2014 20:46 | 1 | | Synergi C18 4.6 (mm) |
| MB 320-45167/1-A | | 06/20/2014 21:43 | 1 | T000008.D | Synergi C18 4.6 (mm) |
| LCS 320-45167/2-A | | 06/20/2014 22:39 | 1 | T000009.D | Synergi C18 4.6 (mm) |
| 250-19605-1 | 02Q14LCMW06SW | 06/20/2014 23:36 | 1 | T000010.D | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 00:32 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 01:29 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 02:25 | 1 | | Synergi C18 4.6 (mm) |
| CCV 320-45295/14 CCVRT | | 06/21/2014 03:22 | 1 | T000014.D | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 04:18 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 05:15 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 06:11 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 07:09 | 1 | | Synergi C18 4.6 (mm) |
| CCV 320-45295/19 CCVRT | | 06/21/2014 08:06 | 1 | T000019.D | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 09:03 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 09:57 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 10:55 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 11:52 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 12:49 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 13:45 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 14:42 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 15:39 | 1 | | Synergi C18 4.6 (mm) |
| ZZZZZ | | 06/21/2014 16:36 | 1 | | Synergi C18 4.6 (mm) |
| CCV 320-45295/29 CCVRT | | 06/21/2014 17:32 | 1 | | Synergi C18 4.6 (mm) |

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

Batch Number: 45167 Batch Start Date: 06/19/14 13:10 Batch Analyst: Arauz, Horacio

Batch Method: 8330-Prep Batch End Date: 06/20/14 13:15

| Lab Sample ID | Client Sample ID | Method Chain | Basis | GrossWeight | TareWeight | InitialAmount | FinalAmount | HP34DNTSU 00025 | HP8330SP 00035 |
|-----------------|------------------|---------------------|-------|-------------|------------|---------------|-------------|-----------------|----------------|
| MB 320-45167/1 | | 8330-Prep, 8330A | | | | 1000 mL | 20 mL | 50 uL | |
| LCS 320-45167/2 | | 8330-Prep, 8330A | | | | 1000 mL | 20 mL | 50 uL | 20 uL |
| 250-19605-B-1 | 02Q14LCMW06SW | 8330-Prep, 8330A | T | 1484.3 g | 498.06 g | 986.2 mL | 20 mL | 50 uL | |

| Batch Notes | |
|--|---------------------------|
| 0.1% HOAc/CAN Lot 3 | 0.1%HOAC/ACN_00002 |
| Balance ID | QA-070 |
| Batch Comment | Pipette EC15219 |
| Person's name who did the concentration | HJA |
| Date of Clean up | 6-20-14 |
| Date Dilution Performed | 6-20-14 |
| Analytst performing Dilution | HJA |
| Filter Lot # | .45um Millipore RABA25706 |
| Date of Final Volume | 6-20-14 |
| Millipore Water Dispense Date | 6-19-14 |
| Prep Solvent Volume Used | 5 mL |
| Person's name who witnessed reagent drop | AVM |
| SPE Cartridge Lot # | WATERS 003833028A |

| Basis | Basis Description |
|-------|-------------------|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6850

Perchlorate by LC/MS or LC/MS/MS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Matrix: Water Level: Low Lab File ID: 10JUL2014_022.d
 Lab ID: LCS 320-46609/2-A Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|-------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Perchlorate | 5.00 | 5.22 | 104 | 80-120 | |

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Matrix: Water Level: Low Lab File ID: 10JUL2014_010.d
 Lab ID: LCS 320-46624/2-A Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|-------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Perchlorate | 5.00 | 5.34 | 107 | 80-120 | |

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Matrix: Water Level: Low Lab File ID: 10JUL2014_025.d
 Lab ID: 250-19605-1 MS Client ID: 02Q14LCMW06SW MS

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC | QC LIMITS REC | # |
|-------------|--------------------------|-----------------------------------|-------------------------------|----------------|---------------------|---|
| Perchlorate | 5.00 | ND | 5.33 | 107 | 80-120 | |

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Matrix: Water Level: Low Lab File ID: 10JUL2014_026.d
 Lab ID: 250-19605-1 MSD Client ID: 02Q14LCMW06SW MSD

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC | % RPD | QC LIMITS | | # |
|-------------|--------------------------|--------------------------------|-----------------|----------|-----------|--------|---|
| | | | | | RPD | REC | |
| Perchlorate | 5.00 | 5.23 | 105 | 2 | 15 | 80-120 | |

Column to be used to flag recovery and RPD values

FORM III
LCMS LC INTERFERENCE CHECK STANDARD RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Matrix: Water Level: Low Lab File ID: 10JUL2014_023.d
 Lab ID: INF 320-46609/3-A Client ID: _____

| COMPOUND | SPIKE ADDED (ng/mL) | INF CONCENTRATION (ng/mL) | INF % REC | QC LIMITS REC | # |
|-------------|---------------------------|---------------------------------|-----------------|---------------------|---|
| Perchlorate | 5.00 | 5.19 | 104 | 80-120 | |

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab File ID: 10JUL2014_021.d Lab Sample ID: MB 320-46609/1-A
 Matrix: Water Date Extracted: 07/07/2014 13:50
 Instrument ID: A6 Date Analyzed: 07/10/2014 12:39
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|-------------------|-------------------|-----------------|------------------|
| | LCS 320-46609/2-A | 10JUL2014_022.d | 07/10/2014 12:51 |
| 02Q14LCMW06SW | 250-19605-1 | 10JUL2014_024.d | 07/10/2014 13:15 |
| 02Q14LCMW06SW MS | 250-19605-1 MS | 10JUL2014_025.d | 07/10/2014 13:27 |
| 02Q14LCMW06SW MSD | 250-19605-1 MSD | 10JUL2014_026.d | 07/10/2014 13:39 |

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab File ID: 10JUL2014_009.d Lab Sample ID: MB 320-46624/1-A
 Matrix: Water Date Extracted: 07/07/2014 14:55
 Instrument ID: A6 Date Analyzed: 07/10/2014 10:15
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|------------------|-------------------|---------------------|------------------|
| | LCS 320-46624/2-A | 10JUL2014_0 10.d | 07/10/2014 10:27 |

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Instrument ID: A6 Calibration Start Date: 07/09/2014 12:28
 GC Column: Xterra C18 ID: 3.2(mm) Calibration End Date: 07/09/2014 13:40
 Calibration ID: 8255

| | | 18OP | | | | | |
|---|-------------------|----------|------|--------|------|--------|------|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MEAN AREA AND MEAN RT | | 5859574 | 6.44 | | | | |
| UPPER LIMIT | | 8789361 | 7.44 | | | | |
| LOWER LIMIT | | 2929787 | 5.44 | | | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 320-46858/11 | | 5816806 | 6.45 | | | | |
| CCVL 320-46858/38 | | 3965535 | 6.42 | | | | |
| CCB 320-46858/39 | | 5243462 | 6.43 | | | | |
| CCV 320-46858/51 | | 5928939 | 6.42 | | | | |
| MB 320-46624/1-A | | 5113781 | 6.41 | | | | |
| LCS 320-46624/2-A | | 4611248 | 6.43 | | | | |
| CCV 320-46858/65 | | 5778243 | 6.41 | | | | |
| CCVL 320-46858/66 | | 6336111 | 6.42 | | | | |
| CCB 320-46858/67 | | 6745399 | 6.42 | | | | |
| MB 320-46609/1-A | | 5488340 | 6.45 | | | | |
| LCS 320-46609/2-A | | 5031102 | 6.45 | | | | |
| INF 320-46609/3-A | | 5203964 | 6.45 | | | | |
| 250-19605-1 | 02Q14LCMW06SW | 5779078 | 6.43 | | | | |
| 250-19605-1 MS | 02Q14LCMW06SW MS | 5022466 | 6.42 | | | | |
| 250-19605-1 MSD | 02Q14LCMW06SW MSD | 5255398 | 6.43 | | | | |
| CCV 320-46858/76 | | 5783327 | 6.36 | | | | |
| CCVL 320-46858/77 | | 2899506* | 6.39 | | | | |
| CCB 320-46858/78 | | 5949167 | 6.41 | | | | |
| CCV 320-46858/94 | | 5781526 | 6.42 | | | | |
| CCVL 320-46858/95 | | 6262766 | 6.43 | | | | |

18OP = 18-O Perchlorate

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 1 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

| | |
|---|--|
| Lab Name: <u>TestAmerica Sacramento</u> | Job No.: <u>250-19605-2</u> |
| SDG No.: <u>76151.005 Phase 0008</u> | |
| Client Sample ID: <u>02Q14LCMW06SW</u> | Lab Sample ID: <u>250-19605-1</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>10JUL2014_024.d</u> |
| Analysis Method: <u>6850</u> | Date Collected: <u>06/13/2014 12:34</u> |
| Extraction Method: <u>Filtration</u> | Date Extracted: <u>07/07/2014 13:50</u> |
| Sample wt/vol: <u>4.00 (mL)</u> | Date Analyzed: <u>07/10/2014 13:15</u> |
| Con. Extract Vol.: <u>4.00 (mL)</u> | Dilution Factor: <u>1</u> |
| Injection Volume: <u>150 (uL)</u> | GC Column: <u>Xterra C18</u> ID: <u>3.2 (mm)</u> |
| % Moisture: _____ | GPC Cleanup: (Y/N) <u>N</u> |
| Analysis Batch No.: <u>46858</u> | Units: <u>ug/L</u> |

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------|--------|---|------|-------|
| 14797-73-0 | Perchlorate | ND | | 0.50 | 0.082 |

FORM VI
 LCMS INITIAL CALIBRATION DATA
 INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2 Analy Batch No.: 46523

SDG No.: 76151.005 Phase 0008

Instrument ID: A6 GC Column: Xterra C18 ID: 3.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2014 13:08 Calibration End Date: 07/05/2014 14:50 Calibration ID: 8252

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|-----------------|
| Level 1 | STD01 320-46523/3 | 05JUL2014_009.d |
| Level 2 | STD02 320-46523/4 | 05JUL2014_010.d |
| Level 3 | STD03 320-46523/5 | 05JUL2014_011.d |
| Level 4 | STD04 320-46523/6 | 05JUL2014_012.d |
| Level 5 | STD06 320-46523/7 | 05JUL2014_013.d |
| Level 6 | STD07 320-46523/8 | 05JUL2014_014.d |
| Level 7 | STD08 320-46523/9 | 05JUL2014_015.d |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R ² OR COD | # | MIN R ² OR COD |
|-------------|--------|--------|--------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|-----------------------|---|---------------------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | LVL 6 | LVL 7 | | | | | | | | | | | | | | | |
| Perchlorate | 1.3081 | 1.2678 | 1.1719 | 1.3378 | 1.2356 | Ave | | 1.2562 | | | 4.3 | | 15.0 | | | | |
| | 1.2345 | 1.2380 | | | | | | | | | | | | | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
 LCMS INITIAL CALIBRATION DATA
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2 Analy Batch No.: 46523

SDG No.: 76151.005 Phase 0008

Instrument ID: A6 GC Column: Xterra C18 ID: 3.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2014 13:08 Calibration End Date: 07/05/2014 14:50 Calibration ID: 8252

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|-----------------|
| Level 1 | STD01 320-46523/3 | 05JUL2014_009.d |
| Level 2 | STD02 320-46523/4 | 05JUL2014_010.d |
| Level 3 | STD03 320-46523/5 | 05JUL2014_011.d |
| Level 4 | STD04 320-46523/6 | 05JUL2014_012.d |
| Level 5 | STD06 320-46523/7 | 05JUL2014_013.d |
| Level 6 | STD07 320-46523/8 | 05JUL2014_014.d |
| Level 7 | STD08 320-46523/9 | 05JUL2014_015.d |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/ML) | | | | |
|-------------|--------|------------|-------------------|--------------------|--------|--------|---------|-----------------------|---------------|-------|-------|-------|
| | | | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| | | | LVL 6 | LVL 7 | | | | LVL 6 | LVL 7 | | | |
| Perchlorate | 18OP | Ave | 108846 6135647 | 211438 10609439 | 325640 | 729355 | 3247044 | 0.150 10.0 | 0.300 20.0 | 0.500 | 1.00 | 5.00 |

Curve Type Legend:

Ave = Average ISTD

FORM VI
 LCMS INITIAL CALIBRATION DATA
 INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2 Analy Batch No.: 46858

SDG No.: 76151.005 Phase 0008

Instrument ID: A6 GC Column: Xterra C18 ID: 3.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 12:28 Calibration End Date: 07/09/2014 13:40 Calibration ID: 8255

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|-----------------|
| Level 1 | STD01 320-46858/3 | 09JUL2014_008.d |
| Level 2 | STD02 320-46858/4 | 09JUL2014_009.d |
| Level 3 | STD03 320-46858/5 | 09JUL2014_010.d |
| Level 4 | STD04 320-46858/6 | 09JUL2014_011.d |
| Level 5 | STD06 320-46858/7 | 09JUL2014_012.d |
| Level 6 | STD07 320-46858/8 | 09JUL2014_013.d |
| Level 7 | STD08 320-46858/9 | 09JUL2014_014.d |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R ² OR COD | # | MIN R ² OR COD |
|-------------|--------|--------|--------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|-----------------------|---|---------------------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | LVL 6 | LVL 7 | | | | | | | | | | | | | | | |
| Perchlorate | 1.3804 | 1.2662 | 1.1899 | 1.1298 | 1.0694 | Ave | | 1.1974 | | | 8.4 | | 15.0 | | | | |
| | 1.1528 | 1.1937 | | | | | | | | | | | | | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
 LCMS INITIAL CALIBRATION DATA
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2 Analy Batch No.: 46858

SDG No.: 76151.005 Phase 0008

Instrument ID: A6 GC Column: Xterra C18 ID: 3.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 12:28 Calibration End Date: 07/09/2014 13:40 Calibration ID: 8255

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|-----------------|
| Level 1 | STD01 320-46858/3 | 09JUL2014_008.d |
| Level 2 | STD02 320-46858/4 | 09JUL2014_009.d |
| Level 3 | STD03 320-46858/5 | 09JUL2014_010.d |
| Level 4 | STD04 320-46858/6 | 09JUL2014_011.d |
| Level 5 | STD06 320-46858/7 | 09JUL2014_012.d |
| Level 6 | STD07 320-46858/8 | 09JUL2014_013.d |
| Level 7 | STD08 320-46858/9 | 09JUL2014_014.d |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (NG/ML) | | | | |
|-------------|--------|------------|-------------------|--------------------|--------|--------|---------|-----------------------|---------------|-------|-------|-------|
| | | | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| | | | LVL 6 | LVL 7 | | | | LVL 6 | LVL 7 | | | |
| Perchlorate | 180P | Ave | 120480 6237069 | 224792 11370293 | 378485 | 732482 | 3333624 | 0.150 10.0 | 0.300 20.0 | 0.500 | 1.00 | 5.00 |

Curve Type Legend:

Ave = Average ISTD

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: ICV 320-46858/11 Calibration Date: 07/09/2014 14:04
 Instrument ID: A6 Calib Start Date: 07/09/2014 12:28
 GC Column: Xterra C18 ID: 3.20 (mm) Calib End Date: 07/09/2014 13:40
 Lab File ID: 09JUL2014_016.d Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-------------|------------|---------|-------|---------|-------------|--------------|------|--------|
| Perchlorate | Ave | 1.197 | 1.114 | | 4.65 | 5.00 | -7.0 | 15.0 |

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCVL 320-46858/38 Calibration Date: 07/09/2014 19:40
 Instrument ID: A6 Calib Start Date: 07/09/2014 12:28
 GC Column: Xterra C18 ID: 3.20 (mm) Calib End Date: 07/09/2014 13:40
 Lab File ID: 09JUL2014_043.d Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-------------|------------|---------|-------|---------|-------------|--------------|-----|--------|
| Perchlorate | Ave | 1.197 | 1.311 | | 0.548 | 0.500 | 9.5 | 50.0 |

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCV 320-46858/51 Calibration Date: 07/10/2014 09:27
 Instrument ID: A6 Calib Start Date: 07/09/2014 12:28
 GC Column: Xterra C18 ID: 3.20 (mm) Calib End Date: 07/09/2014 13:40
 Lab File ID: 10JUL2014_005.d Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-------------|------------|---------|-------|---------|-------------|--------------|------|--------|
| Perchlorate | Ave | 1.197 | 1.161 | | 4.85 | 5.00 | -3.0 | 15.0 |

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCV 320-46858/65 Calibration Date: 07/10/2014 12:03
 Instrument ID: A6 Calib Start Date: 07/09/2014 12:28
 GC Column: Xterra C18 ID: 3.20 (mm) Calib End Date: 07/09/2014 13:40
 Lab File ID: 10JUL2014_018.d Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-------------|------------|---------|-------|---------|-------------|--------------|-----|--------|
| Perchlorate | Ave | 1.197 | 1.233 | | 5.15 | 5.00 | 3.0 | 15.0 |

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCVL 320-46858/66 Calibration Date: 07/10/2014 12:15
 Instrument ID: A6 Calib Start Date: 07/09/2014 12:28
 GC Column: Xterra C18 ID: 3.20 (mm) Calib End Date: 07/09/2014 13:40
 Lab File ID: 10JUL2014_019.d Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-------------|------------|---------|-------|---------|-------------|--------------|-----|--------|
| Perchlorate | Ave | 1.197 | 1.254 | | 0.523 | 0.500 | 4.7 | 50.0 |

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCV 320-46858/76 Calibration Date: 07/10/2014 14:15
 Instrument ID: A6 Calib Start Date: 07/09/2014 12:28
 GC Column: Xterra C18 ID: 3.20 (mm) Calib End Date: 07/09/2014 13:40
 Lab File ID: 10JUL2014_029.d Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-------------|------------|---------|-------|---------|-------------|--------------|-----|--------|
| Perchlorate | Ave | 1.197 | 1.245 | | 5.20 | 5.00 | 4.0 | 15.0 |

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCVL 320-46858/77 Calibration Date: 07/10/2014 14:27
 Instrument ID: A6 Calib Start Date: 07/09/2014 12:28
 GC Column: Xterra C18 ID: 3.20 (mm) Calib End Date: 07/09/2014 13:40
 Lab File ID: 10JUL2014_030.d Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-------------|------------|---------|-------|---------|-------------|--------------|-----|--------|
| Perchlorate | Ave | 1.197 | 1.285 | | 0.537 | 0.500 | 7.3 | 50.0 |

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCV 320-46858/94 Calibration Date: 07/10/2014 16:38
 Instrument ID: A6 Calib Start Date: 07/09/2014 12:28
 GC Column: Xterra C18 ID: 3.20 (mm) Calib End Date: 07/09/2014 13:40
 Lab File ID: 10JUL2014_041.d Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-------------|------------|---------|-------|---------|-------------|--------------|-----|--------|
| Perchlorate | Ave | 1.197 | 1.274 | | 5.32 | 5.00 | 6.4 | 15.0 |

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Lab Sample ID: CCVL 320-46858/95 Calibration Date: 07/10/2014 16:50
 Instrument ID: A6 Calib Start Date: 07/09/2014 12:28
 GC Column: Xterra C18 ID: 3.20 (mm) Calib End Date: 07/09/2014 13:40
 Lab File ID: 10JUL2014_042.d Conc. Units: ng/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-------------|------------|---------|-------|---------|-------------|--------------|-----|--------|
| Perchlorate | Ave | 1.197 | 1.288 | | 0.538 | 0.500 | 7.6 | 50.0 |

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

| | |
|---|--|
| Lab Name: <u>TestAmerica Sacramento</u> | Job No.: <u>250-19605-2</u> |
| SDG No.: <u>76151.005 Phase 0008</u> | |
| Client Sample ID: _____ | Lab Sample ID: <u>MB 320-46609/1-A</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>10JUL2014_021.d</u> |
| Analysis Method: <u>6850</u> | Date Collected: _____ |
| Extraction Method: <u>Filtration</u> | Date Extracted: <u>07/07/2014 13:50</u> |
| Sample wt/vol: <u>4.00 (mL)</u> | Date Analyzed: <u>07/10/2014 12:39</u> |
| Con. Extract Vol.: <u>4.00 (mL)</u> | Dilution Factor: <u>1</u> |
| Injection Volume: <u>150 (uL)</u> | GC Column: <u>Xterra C18</u> ID: <u>3.2 (mm)</u> |
| % Moisture: _____ | GPC Cleanup: (Y/N) <u>N</u> |
| Analysis Batch No.: <u>46858</u> | Units: <u>ug/L</u> |

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------|--------|---|------|-------|
| 14797-73-0 | Perchlorate | ND | | 0.50 | 0.082 |

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

| | |
|---|--|
| Lab Name: <u>TestAmerica Sacramento</u> | Job No.: <u>250-19605-2</u> |
| SDG No.: <u>76151.005 Phase 0008</u> | |
| Client Sample ID: _____ | Lab Sample ID: <u>MB 320-46624/1-A</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>10JUL2014_009.d</u> |
| Analysis Method: <u>6850</u> | Date Collected: _____ |
| Extraction Method: <u>Filtration</u> | Date Extracted: <u>07/07/2014 14:55</u> |
| Sample wt/vol: <u>4.00 (mL)</u> | Date Analyzed: <u>07/10/2014 10:15</u> |
| Con. Extract Vol.: <u>4 (mL)</u> | Dilution Factor: <u>1</u> |
| Injection Volume: <u>150 (uL)</u> | GC Column: <u>Xterra C18</u> ID: <u>3.2 (mm)</u> |
| % Moisture: _____ | GPC Cleanup: (Y/N) <u>N</u> |
| Analysis Batch No.: <u>46858</u> | Units: <u>ug/L</u> |

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------|--------|---|------|-------|
| 14797-73-0 | Perchlorate | ND | | 0.50 | 0.082 |

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Client Sample ID: _____ Lab Sample ID: CCB 320-46858/39
 Matrix: Water Lab File ID: 09JUL2014_044.d
 Analysis Method: 6850 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: _____ Date Analyzed: 07/09/2014 19:52
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 150 (uL) GC Column: Xterra C18 ID: 3.2 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 46858 Units: ng/mL

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------|--------|---|------|-------|
| 14797-73-0 | Perchlorate | ND | | 0.50 | 0.078 |

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Client Sample ID: _____ Lab Sample ID: CCB 320-46858/67
 Matrix: Water Lab File ID: 10JUL2014_020.d
 Analysis Method: 6850 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: _____ Date Analyzed: 07/10/2014 12:27
 Con. Extract Vol.: _____ Dilution Factor: 1
 Injection Volume: 150 (uL) GC Column: Xterra C18 ID: 3.2 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 46858 Units: ng/mL

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------|--------|---|------|-------|
| 14797-73-0 | Perchlorate | ND | | 0.50 | 0.078 |

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Client Sample ID: _____ Lab Sample ID: CCB 320-46858/78
 Matrix: Water Lab File ID: 10JUL2014_031.d
 Analysis Method: 6850 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: _____ Date Analyzed: 07/10/2014 14:39
 Con. Extract Vol.: _____ Dilution Factor: 1
 Injection Volume: 150 (uL) GC Column: Xterra C18 ID: 3.2 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 46858 Units: ng/mL

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------|--------|---|------|-------|
| 14797-73-0 | Perchlorate | ND | | 0.50 | 0.078 |

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
 SDG No.: 76151.005 Phase 0008
 Client Sample ID: _____ Lab Sample ID: ICB 320-46858/2
 Matrix: Water Lab File ID: 09JUL2014_007.d
 Analysis Method: 6850 Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: _____ Date Analyzed: 07/09/2014 12:16
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 150 (uL) GC Column: Xterra C18 ID: 3.2 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 46858 Units: ng/mL

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------|--------|---|------|-------|
| 14797-73-0 | Perchlorate | ND | | 0.50 | 0.078 |

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

| | |
|---|--|
| Lab Name: <u>TestAmerica Sacramento</u> | Job No.: <u>250-19605-2</u> |
| SDG No.: <u>76151.005 Phase 0008</u> | |
| Client Sample ID: _____ | Lab Sample ID: <u>LCS 320-46609/2-A</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>10JUL2014_022.d</u> |
| Analysis Method: <u>6850</u> | Date Collected: _____ |
| Extraction Method: <u>Filtration</u> | Date Extracted: <u>07/07/2014 13:50</u> |
| Sample wt/vol: <u>4.00 (mL)</u> | Date Analyzed: <u>07/10/2014 12:51</u> |
| Con. Extract Vol.: <u>4.00 (mL)</u> | Dilution Factor: <u>1</u> |
| Injection Volume: <u>150 (uL)</u> | GC Column: <u>Xterra C18</u> ID: <u>3.2 (mm)</u> |
| % Moisture: _____ | GPC Cleanup: (Y/N) <u>N</u> |
| Analysis Batch No.: <u>46858</u> | Units: <u>ug/L</u> |

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------|--------|---|------|-------|
| 14797-73-0 | Perchlorate | 5.22 | | 0.50 | 0.082 |

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

| | |
|---|--|
| Lab Name: <u>TestAmerica Sacramento</u> | Job No.: <u>250-19605-2</u> |
| SDG No.: <u>76151.005 Phase 0008</u> | |
| Client Sample ID: _____ | Lab Sample ID: <u>LCS 320-46624/2-A</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>10JUL2014_010.d</u> |
| Analysis Method: <u>6850</u> | Date Collected: _____ |
| Extraction Method: <u>Filtration</u> | Date Extracted: <u>07/07/2014 14:55</u> |
| Sample wt/vol: <u>4.00 (mL)</u> | Date Analyzed: <u>07/10/2014 10:27</u> |
| Con. Extract Vol.: <u>4 (mL)</u> | Dilution Factor: <u>1</u> |
| Injection Volume: <u>150 (uL)</u> | GC Column: <u>Xterra C18</u> ID: <u>3.2 (mm)</u> |
| % Moisture: _____ | GPC Cleanup: (Y/N) <u>N</u> |
| Analysis Batch No.: <u>46858</u> | Units: <u>ug/L</u> |

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------|--------|---|------|-------|
| 14797-73-0 | Perchlorate | 5.34 | | 0.50 | 0.082 |

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

| | |
|---|--|
| Lab Name: <u>TestAmerica Sacramento</u> | Job No.: <u>250-19605-2</u> |
| SDG No.: <u>76151.005 Phase 0008</u> | |
| Client Sample ID: _____ | Lab Sample ID: <u>INF 320-46609/3-A</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>10JUL2014_023.d</u> |
| Analysis Method: <u>6850</u> | Date Collected: _____ |
| Extraction Method: <u>Filtration</u> | Date Extracted: <u>07/07/2014 13:50</u> |
| Sample wt/vol: <u>4.00 (mL)</u> | Date Analyzed: <u>07/10/2014 13:03</u> |
| Con. Extract Vol.: <u>4.00 (mL)</u> | Dilution Factor: <u>1</u> |
| Injection Volume: <u>150 (uL)</u> | GC Column: <u>Xterra C18</u> ID: <u>3.2 (mm)</u> |
| % Moisture: _____ | GPC Cleanup: (Y/N) <u>N</u> |
| Analysis Batch No.: <u>46858</u> | Units: <u>ng/mL</u> |

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------|--------|---|------|-------|
| 14797-73-0 | Perchlorate | 5.19 | | 0.50 | 0.078 |

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

| | |
|---|--|
| Lab Name: <u>TestAmerica Sacramento</u> | Job No.: <u>250-19605-2</u> |
| SDG No.: <u>76151.005 Phase 0008</u> | |
| Client Sample ID: <u>02Q14LCMW06SW MS</u> | Lab Sample ID: <u>250-19605-1 MS</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>10JUL2014_025.d</u> |
| Analysis Method: <u>6850</u> | Date Collected: <u>06/13/2014 12:34</u> |
| Extraction Method: <u>Filtration</u> | Date Extracted: <u>07/07/2014 13:50</u> |
| Sample wt/vol: <u>4.00 (mL)</u> | Date Analyzed: <u>07/10/2014 13:27</u> |
| Con. Extract Vol.: <u>4.00 (mL)</u> | Dilution Factor: <u>1</u> |
| Injection Volume: <u>150 (uL)</u> | GC Column: <u>Xterra C18</u> ID: <u>3.2 (mm)</u> |
| % Moisture: _____ | GPC Cleanup: (Y/N) <u>N</u> |
| Analysis Batch No.: <u>46858</u> | Units: <u>ug/L</u> |

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------|--------|---|------|-------|
| 14797-73-0 | Perchlorate | 5.33 | | 0.50 | 0.082 |

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2
SDG No.: 76151.005 Phase 0008
Client Sample ID: 02Q14LCMW06SW MSD Lab Sample ID: 250-19605-1 MSD
Matrix: Water Lab File ID: 10JUL2014_026.d
Analysis Method: 6850 Date Collected: 06/13/2014 12:34
Extraction Method: Filtration Date Extracted: 07/07/2014 13:50
Sample wt/vol: 4.00 (mL) Date Analyzed: 07/10/2014 13:39
Con. Extract Vol.: 4.00 (mL) Dilution Factor: 1
Injection Volume: 150 (uL) GC Column: Xterra C18 ID: 3.2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 46858 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------|--------|---|------|-------|
| 14797-73-0 | Perchlorate | 5.23 | | 0.50 | 0.082 |

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

Instrument ID: A6 Start Date: 07/05/2014 12:51

Analysis Batch Number: 46523 End Date: 07/06/2014 09:50

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|--------------------------|------------------|------------------|-----------------|-----------------|---------------------|
| ICB 320-46523/2 | | 07/05/2014 12:51 | 1 | | Xterra C18 3.2 (mm) |
| STD01 320-46523/3 IC | | 07/05/2014 13:08 | 1 | 05JUL2014_009.d | Xterra C18 3.2 (mm) |
| STD02 320-46523/4 IC | | 07/05/2014 13:25 | 1 | 05JUL2014_010.d | Xterra C18 3.2 (mm) |
| STD03 320-46523/5 IC | | 07/05/2014 13:42 | 1 | 05JUL2014_011.d | Xterra C18 3.2 (mm) |
| STD04 320-46523/6 ICISAV | | 07/05/2014 13:59 | 1 | 05JUL2014_012.d | Xterra C18 3.2 (mm) |
| STD06 320-46523/7 IC | | 07/05/2014 14:16 | 1 | 05JUL2014_013.d | Xterra C18 3.2 (mm) |
| STD07 320-46523/8 IC | | 07/05/2014 14:33 | 1 | 05JUL2014_014.d | Xterra C18 3.2 (mm) |
| STD08 320-46523/9 IC | | 07/05/2014 14:50 | 1 | 05JUL2014_015.d | Xterra C18 3.2 (mm) |
| CCB 320-46523/10 | | 07/05/2014 15:07 | 1 | | Xterra C18 3.2 (mm) |
| ICV 320-46523/11 | | 07/05/2014 15:24 | 1 | | Xterra C18 3.2 (mm) |
| CCV 320-46523/12 | | 07/05/2014 15:41 | 1 | | Xterra C18 3.2 (mm) |
| CCVL 320-46523/13 | | 07/05/2014 15:58 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/05/2014 16:32 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/05/2014 16:49 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/05/2014 17:06 | 1 | | Xterra C18 3.2 (mm) |
| INF 320-46338/3-A | | 07/05/2014 17:23 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/05/2014 17:40 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/05/2014 17:57 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/05/2014 18:14 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/05/2014 18:31 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/05/2014 18:48 | 1 | | Xterra C18 3.2 (mm) |
| CCV 320-46523/26 | | 07/05/2014 19:39 | 1 | | Xterra C18 3.2 (mm) |
| CCVL 320-46523/27 | | 07/05/2014 19:56 | 1 | | Xterra C18 3.2 (mm) |
| CCB 320-46523/28 | | 07/05/2014 20:13 | 1 | | Xterra C18 3.2 (mm) |
| CCV 320-46523/51 | | 07/06/2014 02:45 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/06/2014 03:02 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/06/2014 05:00 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/06/2014 05:17 | 1 | | Xterra C18 3.2 (mm) |
| INF 320-46397/3-A | | 07/06/2014 05:34 | 1 | | Xterra C18 3.2 (mm) |
| CCV 320-46523/62 | | 07/06/2014 05:51 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/06/2014 06:42 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/06/2014 06:59 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/06/2014 07:16 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/06/2014 07:33 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/06/2014 07:50 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/06/2014 08:07 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/06/2014 08:24 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/06/2014 08:41 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/06/2014 08:58 | 1 | | Xterra C18 3.2 (mm) |
| CCV 320-46523/74 | | 07/06/2014 09:15 | 1 | | Xterra C18 3.2 (mm) |
| CCVL 320-46523/75 | | 07/06/2014 09:32 | 1 | | Xterra C18 3.2 (mm) |
| CCB 320-46523/76 | | 07/06/2014 09:50 | 1 | | Xterra C18 3.2 (mm) |

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

Instrument ID: A6 Start Date: 07/09/2014 12:16

Analysis Batch Number: 46858 End Date: 07/10/2014 22:54

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|--------------------------|------------------|------------------|-----------------|-----------------|---------------------|
| ICB 320-46858/2 | | 07/09/2014 12:16 | 1 | 09JUL2014_007.d | Xterra C18 3.2 (mm) |
| STD01 320-46858/3 IC | | 07/09/2014 12:28 | 1 | 09JUL2014_008.d | Xterra C18 3.2 (mm) |
| STD02 320-46858/4 IC | | 07/09/2014 12:40 | 1 | 09JUL2014_009.d | Xterra C18 3.2 (mm) |
| STD03 320-46858/5 IC | | 07/09/2014 12:52 | 1 | 09JUL2014_010.d | Xterra C18 3.2 (mm) |
| STD04 320-46858/6 ICISAV | | 07/09/2014 13:04 | 1 | 09JUL2014_011.d | Xterra C18 3.2 (mm) |
| STD06 320-46858/7 IC | | 07/09/2014 13:16 | 1 | 09JUL2014_012.d | Xterra C18 3.2 (mm) |
| STD07 320-46858/8 IC | | 07/09/2014 13:28 | 1 | 09JUL2014_013.d | Xterra C18 3.2 (mm) |
| STD08 320-46858/9 IC | | 07/09/2014 13:40 | 1 | 09JUL2014_014.d | Xterra C18 3.2 (mm) |
| CCB 320-46858/10 | | 07/09/2014 13:52 | 1 | | Xterra C18 3.2 (mm) |
| ICV 320-46858/11 | | 07/09/2014 14:04 | 1 | 09JUL2014_016.d | Xterra C18 3.2 (mm) |
| CCV 320-46858/12 | | 07/09/2014 14:16 | 1 | | Xterra C18 3.2 (mm) |
| CCVL 320-46858/13 | | 07/09/2014 14:28 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 14:52 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 15:04 | 10 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 15:16 | 10 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 15:28 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 15:40 | 1 | | Xterra C18 3.2 (mm) |
| INF 320-46624/3-A | | 07/09/2014 15:52 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 16:04 | 100 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 16:16 | 100 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 16:28 | 100 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 16:51 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 17:04 | 10 | | Xterra C18 3.2 (mm) |
| CCV 320-46858/26 | | 07/09/2014 17:16 | 1 | | Xterra C18 3.2 (mm) |
| CCVL 320-46858/27 | | 07/09/2014 17:28 | 1 | | Xterra C18 3.2 (mm) |
| CCB 320-46858/28 | | 07/09/2014 17:40 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 17:52 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 18:04 | 1 | | Xterra C18 3.2 (mm) |
| INF 320-46609/3-A | | 07/09/2014 18:16 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 18:28 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 18:40 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 18:52 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 19:04 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/09/2014 19:16 | 1 | | Xterra C18 3.2 (mm) |
| CCV 320-46858/37 | | 07/09/2014 19:28 | 1 | | Xterra C18 3.2 (mm) |
| CCVL 320-46858/38 | | 07/09/2014 19:40 | 1 | 09JUL2014_043.d | Xterra C18 3.2 (mm) |
| CCB 320-46858/39 | | 07/09/2014 19:52 | 1 | 09JUL2014_044.d | Xterra C18 3.2 (mm) |
| CCV 320-46858/51 | | 07/10/2014 09:27 | 1 | 10JUL2014_005.d | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/10/2014 09:39 | 1 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/10/2014 09:51 | 10 | | Xterra C18 3.2 (mm) |
| ZZZZZ | | 07/10/2014 10:03 | 10 | | Xterra C18 3.2 (mm) |
| MB 320-46624/1-A | | 07/10/2014 10:15 | 1 | 10JUL2014_009.d | Xterra C18 3.2 (mm) |
| LCS 320-46624/2-A | | 07/10/2014 10:27 | 1 | 10JUL2014_010.d | Xterra C18 3.2 (mm) |
| INF 320-46624/3-A | | 07/10/2014 10:39 | 1 | | Xterra C18 3.2 (mm) |

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

Instrument ID: A6 Start Date: 07/09/2014 12:16

Analysis Batch Number: 46858 End Date: 07/10/2014 22:54

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|--------------------|-------------------|------------------|-----------------|-----------------|--------------------|
| ZZZZZ | | 07/10/2014 10:51 | 100 | | Xterra C18 3.2(mm) |
| ZZZZZ | | 07/10/2014 11:03 | 100 | | Xterra C18 3.2(mm) |
| ZZZZZ | | 07/10/2014 11:15 | 100 | | Xterra C18 3.2(mm) |
| ZZZZZ | | 07/10/2014 11:27 | 1 | | Xterra C18 3.2(mm) |
| ZZZZZ | | 07/10/2014 11:39 | 10 | | Xterra C18 3.2(mm) |
| ZZZZZ | | 07/10/2014 11:51 | 1 | | Xterra C18 3.2(mm) |
| CCV 320-46858/65 | | 07/10/2014 12:03 | 1 | 10JUL2014_018.d | Xterra C18 3.2(mm) |
| CCVL 320-46858/66 | | 07/10/2014 12:15 | 1 | 10JUL2014_019.d | Xterra C18 3.2(mm) |
| CCB 320-46858/67 | | 07/10/2014 12:27 | 1 | 10JUL2014_020.d | Xterra C18 3.2(mm) |
| MB 320-46609/1-A | | 07/10/2014 12:39 | 1 | 10JUL2014_021.d | Xterra C18 3.2(mm) |
| LCS 320-46609/2-A | | 07/10/2014 12:51 | 1 | 10JUL2014_022.d | Xterra C18 3.2(mm) |
| INF 320-46609/3-A | | 07/10/2014 13:03 | 1 | 10JUL2014_023.d | Xterra C18 3.2(mm) |
| 250-19605-1 | 02Q14LCMW06SW | 07/10/2014 13:15 | 1 | 10JUL2014_024.d | Xterra C18 3.2(mm) |
| 250-19605-1 MS | 02Q14LCMW06SW MS | 07/10/2014 13:27 | 1 | 10JUL2014_025.d | Xterra C18 3.2(mm) |
| 250-19605-1 MSD | 02Q14LCMW06SW MSD | 07/10/2014 13:39 | 1 | 10JUL2014_026.d | Xterra C18 3.2(mm) |
| ZZZZZ | | 07/10/2014 13:51 | 1 | | Xterra C18 3.2(mm) |
| ZZZZZ | | 07/10/2014 14:03 | 1 | | Xterra C18 3.2(mm) |
| CCV 320-46858/76 | | 07/10/2014 14:15 | 1 | 10JUL2014_029.d | Xterra C18 3.2(mm) |
| CCVL 320-46858/77 | | 07/10/2014 14:27 | 1 | 10JUL2014_030.d | Xterra C18 3.2(mm) |
| CCB 320-46858/78 | | 07/10/2014 14:39 | 1 | 10JUL2014_031.d | Xterra C18 3.2(mm) |
| CCV 320-46858/94 | | 07/10/2014 16:38 | 1 | 10JUL2014_041.d | Xterra C18 3.2(mm) |
| CCVL 320-46858/95 | | 07/10/2014 16:50 | 1 | 10JUL2014_042.d | Xterra C18 3.2(mm) |
| CCV 320-46858/101 | | 07/10/2014 20:54 | 1 | | Xterra C18 3.2(mm) |
| ZZZZZ | | 07/10/2014 21:06 | 1 | | Xterra C18 3.2(mm) |
| ZZZZZ | | 07/10/2014 21:18 | 1 | | Xterra C18 3.2(mm) |
| ZZZZZ | | 07/10/2014 21:30 | 1 | | Xterra C18 3.2(mm) |
| INF 320-46784/3-A | | 07/10/2014 21:42 | 1 | | Xterra C18 3.2(mm) |
| ZZZZZ | | 07/10/2014 21:54 | 1 | | Xterra C18 3.2(mm) |
| ZZZZZ | | 07/10/2014 22:06 | 1 | | Xterra C18 3.2(mm) |
| ZZZZZ | | 07/10/2014 22:18 | 1 | | Xterra C18 3.2(mm) |
| CCV 320-46858/109 | | 07/10/2014 22:30 | 1 | | Xterra C18 3.2(mm) |
| CCVL 320-46858/110 | | 07/10/2014 22:42 | 1 | | Xterra C18 3.2(mm) |
| CCB 320-46858/111 | | 07/10/2014 22:54 | 1 | | Xterra C18 3.2(mm) |

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

Batch Number: 46609 Batch Start Date: 07/07/14 13:50 Batch Analyst: Reed, Jonathan E

Batch Method: Filtration Batch End Date: 07/07/14 19:55

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | LC6850IS 00026 | LC6850SP 00019 | | |
|-------------------|------------------|------------------|-------|---------------|-------------|----------------|----------------|--|--|
| MB 320-46609/1 | | Filtration, 6850 | | 4.00 mL | 4.00 mL | 40 uL | | | |
| LCS 320-46609/2 | | Filtration, 6850 | | 4.00 mL | 4.00 mL | 40 uL | 20 uL | | |
| INF 320-46609/3 | | Filtration, 6850 | | 4.00 mL | 4.00 mL | 40 uL | 20 uL | | |
| 250-19605-C-1 | 02Q14LCMW06SW | Filtration, 6850 | T | 4.00 mL | 4.00 mL | 40 uL | | | |
| 250-19605-C-1 MS | 02Q14LCMW06SW | Filtration, 6850 | T | 4.00 mL | 4.00 mL | 40 uL | 20 uL | | |
| 250-19605-C-1 MSD | 02Q14LCMW06SW | Filtration, 6850 | T | 4.00 mL | 4.00 mL | 40 uL | 20 uL | | |

| Batch Notes | |
|-------------------------|-----------|
| BA/AG/H Cartridge Lot# | 140_00001 |
| Filter #2 Lot # | R3NA98716 |
| Filter Lot # | R4EA25712 |
| IS Reagent Drop | JER |
| IS Reagent Drop Witness | AVM |
| SMCS Lot # | INF_00001 |
| Storage Box | FL |
| Reagent Water Lot # | 07/03/14 |

| Basis | Basis Description |
|-------|-------------------|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 250-19605-2

SDG No.: 76151.005 Phase 0008

Batch Number: 46624 Batch Start Date: 07/07/14 14:55 Batch Analyst: Reed, Jonathan E

Batch Method: Filtration Batch End Date: 07/07/14 16:00

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | LC6850IS 00026 | LC6850SP 00019 | | |
|-----------------|------------------|---------------------|-------|---------------|-------------|----------------|----------------|--|--|
| MB 320-46624/1 | | Filtration, 6850 | | 4.00 mL | 4 mL | 40 uL | | | |
| LCS 320-46624/2 | | Filtration, 6850 | | 4.00 mL | 4 mL | 40 uL | 20 uL | | |

| Batch Notes | |
|-------------------------|-----------|
| BA/AG/H Cartridge Lot# | 140213 |
| Filter #2 Lot # | R3NA98716 |
| Filter Lot # | R4EA25712 |
| IS Reagent Drop | JER |
| IS Reagent Drop Witness | HJA |
| SMCS Lot # | INF_00001 |
| Storage Box | AY |
| Reagent Water Lot # | 7/03/14 |

| Basis | Basis Description |
|-------|-------------------|
| | |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: PBS Engineering and Environmental

Job Number: 250-19605-2
SDG Number: 76151.005 Phase 0008

Login Number: 19605
List Number: 1
Creator: Svabik-Seror, Philip M

List Source: TestAmerica Portland

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is <= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| 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. | N/A | |
| 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 | |

Login Sample Receipt Checklist

Client: PBS Engineering and Environmental

Job Number: 250-19605-2
SDG Number: 76151.005 Phase 0008

Login Number: 19605
List Number: 2
Creator: Edwards, Stephanie N

List Source: TestAmerica Sacramento
List Creation: 06/18/14 12:14 PM

| 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. | N/A | |
| 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? | N/A | |
| 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. | N/A | |
| 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"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503)906-9200

TestAmerica Job ID: 250-19606-2

TestAmerica Sample Delivery Group: 76151.005 Phase 0008
Client Project/Site: Camp Bonneville GW Sampling

For:

PBS Engineering and Environmental
4412 SW Corbett Ave
Portland, Oregon 97239

Attn: Jerry Orlando

Vanessa Berry

Authorized for release by:
6/30/2014 3:34:51 PM

Vanessa Berry, Project Manager II
(503)906-9233
vanessa.berry@testamericainc.com

LINKS

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results through
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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19606-2
SDG: 76151.005 Phase 0008

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 250-19606-1 | 02Q14LCMW05DW | Water | 06/13/14 10:36 | 06/13/14 17:30 |
| 250-19606-2 | 02Q14LCMW05SW | Water | 06/13/14 11:30 | 06/13/14 17:30 |
| 250-19606-3 | 02Q14LCMW07SW | Water | 06/13/14 13:31 | 06/13/14 17:30 |
| 250-19606-4 | 02Q14LCMW08SW | Water | 06/13/14 14:36 | 06/13/14 17:30 |
| 250-19606-5 | 02Q14LCMW150W | Water | 06/13/14 08:50 | 06/13/14 17:30 |

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Case Narrative

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19606-2
SDG: 76151.005 Phase 0008

Job ID: 250-19606-2

Laboratory: TestAmerica Portland

Narrative

Job Narrative 250-19606-2

Comments

No additional comments.

Receipt

The samples were received on 6/13/2014 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 4.8° C, 5.0° C and 5.6° C.

HPLC

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

LCMS

Method(s) 6850: During storage at the laboratory and prior to analysis, the refrigerator which held the following sample extracts exceeded temperature control limits: 02Q14LCMW05DW (250-19606-1), 02Q14LCMW05SW (250-19606-2), 02Q14LCMW07SW (250-19606-3), 02Q14LCMW07SW (250-19606-3 MS), 02Q14LCMW07SW (250-19606-3 MSD), 02Q14LCMW08SW (250-19606-4), 02Q14LCMW150W (250-19606-5). The temperature was checked on Monday morning 06/22/2014 and the maximum temperature over the weekend had been 14 degrees C. The minimum temperature had been 3 degrees C and the current temperature when the refrigerator was being checked on Monday was 9 degrees C. The temperature was adjusted and dropped back to within acceptance limits. The temperature range control limits are between 0 and 6 degrees. EPA 6850 requires no specific temperature preservation. However the samples associated with this non conformance did exceed TestAmerica internal requirements.

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

Organic Prep

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

Definitions/Glossary

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19606-2
SDG: 76151.005 Phase 0008

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| □ | 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 Sample Results

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19606-2
SDG: 76151.005 Phase 0008

Method: 8330A - Nitroaromatics and Nitramines

Client Sample ID: 02Q14LCMW05DW

Date Collected: 06/13/14 10:36

Date Received: 06/13/14 17:30

Lab Sample ID: 250-19606-1

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| HMX | ND | | 0.10 | 0.036 | ug/L | | 06/19/14 13:10 | 06/21/14 00:32 | 1 |
| RDX | ND | | 0.10 | 0.066 | ug/L | | 06/19/14 13:10 | 06/21/14 00:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 3,4-Dinitrotoluene | 96 | | 79 - 111 | | | | 06/19/14 13:10 | 06/21/14 00:32 | 1 |

Client Sample ID: 02Q14LCMW05SW

Date Collected: 06/13/14 11:30

Date Received: 06/13/14 17:30

Lab Sample ID: 250-19606-2

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| HMX | ND | | 0.10 | 0.037 | ug/L | | 06/19/14 13:10 | 06/21/14 01:29 | 1 |
| RDX | ND | | 0.10 | 0.067 | ug/L | | 06/19/14 13:10 | 06/21/14 01:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 3,4-Dinitrotoluene | 96 | | 79 - 111 | | | | 06/19/14 13:10 | 06/21/14 01:29 | 1 |

Client Sample ID: 02Q14LCMW07SW

Date Collected: 06/13/14 13:31

Date Received: 06/13/14 17:30

Lab Sample ID: 250-19606-3

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| HMX | ND | | 0.10 | 0.037 | ug/L | | 06/19/14 13:10 | 06/21/14 02:25 | 1 |
| RDX | ND | | 0.10 | 0.066 | ug/L | | 06/19/14 13:10 | 06/21/14 02:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 3,4-Dinitrotoluene | 96 | | 79 - 111 | | | | 06/19/14 13:10 | 06/21/14 02:25 | 1 |

Client Sample ID: 02Q14LCMW08SW

Date Collected: 06/13/14 14:36

Date Received: 06/13/14 17:30

Lab Sample ID: 250-19606-4

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| HMX | ND | | 0.10 | 0.037 | ug/L | | 06/19/14 13:10 | 06/21/14 06:11 | 1 |
| RDX | ND | | 0.10 | 0.066 | ug/L | | 06/19/14 13:10 | 06/21/14 06:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 3,4-Dinitrotoluene | 99 | | 79 - 111 | | | | 06/19/14 13:10 | 06/21/14 06:11 | 1 |

Client Sample ID: 02Q14LCMW150W

Date Collected: 06/13/14 08:50

Date Received: 06/13/14 17:30

Lab Sample ID: 250-19606-5

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| HMX | ND | | 0.10 | 0.036 | ug/L | | 06/19/14 13:10 | 06/21/14 07:09 | 1 |
| RDX | ND | | 0.10 | 0.065 | ug/L | | 06/19/14 13:10 | 06/21/14 07:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 3,4-Dinitrotoluene | 96 | | 79 - 111 | | | | 06/19/14 13:10 | 06/21/14 07:09 | 1 |

TestAmerica Portland

Client Sample Results

Client: PBS Engineering and Environmental
 Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19606-2
 SDG: 76151.005 Phase 0008

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

Client Sample ID: 02Q14LCMW05DW

Date Collected: 06/13/14 10:36

Date Received: 06/13/14 17:30

Lab Sample ID: 250-19606-1

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Perchlorate | ND | | 0.50 | 0.082 | ug/L | | 06/20/14 08:47 | 06/26/14 01:57 | 1 |

Client Sample ID: 02Q14LCMW05SW

Date Collected: 06/13/14 11:30

Date Received: 06/13/14 17:30

Lab Sample ID: 250-19606-2

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Perchlorate | ND | | 0.50 | 0.082 | ug/L | | 06/20/14 08:47 | 06/26/14 02:09 | 1 |

Client Sample ID: 02Q14LCMW07SW

Date Collected: 06/13/14 13:31

Date Received: 06/13/14 17:30

Lab Sample ID: 250-19606-3

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Perchlorate | ND | | 0.50 | 0.082 | ug/L | | 06/20/14 08:47 | 06/26/14 02:21 | 1 |

Client Sample ID: 02Q14LCMW08SW

Date Collected: 06/13/14 14:36

Date Received: 06/13/14 17:30

Lab Sample ID: 250-19606-4

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Perchlorate | ND | | 0.50 | 0.082 | ug/L | | 06/20/14 08:47 | 06/26/14 02:57 | 1 |

Client Sample ID: 02Q14LCMW150W

Date Collected: 06/13/14 08:50

Date Received: 06/13/14 17:30

Lab Sample ID: 250-19606-5

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Perchlorate | ND | | 0.50 | 0.082 | ug/L | | 06/20/14 08:47 | 06/26/14 03:09 | 1 |

QC Sample Results

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19606-2
SDG: 76151.005 Phase 0008

Method: 8330A - Nitroaromatics and Nitramines

Lab Sample ID: MB 320-45167/1-A

Matrix: Water

Analysis Batch: 45295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45167

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|--------------|----------|-------|------|---|----------------|----------------|---------|
| HMX | ND | | 0.10 | 0.036 | ug/L | | 06/19/14 13:10 | 06/20/14 21:43 | 1 |
| RDX | ND | | 0.10 | 0.065 | ug/L | | 06/19/14 13:10 | 06/20/14 21:43 | 1 |
| Surrogate | %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 3,4-Dinitrotoluene | 96 | | 79 - 111 | | | | 06/19/14 13:10 | 06/20/14 21:43 | 1 |

Lab Sample ID: LCS 320-45167/2-A

Matrix: Water

Analysis Batch: 45295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45167

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------|-------------|---------------|---------------|------|---|------|--------------|
| HMX | 1.00 | 1.10 | | ug/L | | 110 | 67 - 115 |
| RDX | 1.00 | 1.11 | | ug/L | | 111 | 68 - 122 |
| Surrogate | %Recovery | LCS Qualifier | Limits | | | | |
| 3,4-Dinitrotoluene | 96 | | 79 - 111 | | | | |

Lab Sample ID: 250-19606-3 MS

Matrix: Water

Analysis Batch: 45295

Client Sample ID: 02Q14LCMW07SW

Prep Type: Total/NA

Prep Batch: 45167

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| HMX | ND | | 1.02 | 1.11 | | ug/L | | 109 | 67 - 115 |
| RDX | ND | | 1.02 | 1.13 | | ug/L | | 111 | 68 - 122 |
| Surrogate | %Recovery | MS Qualifier | Limits | | | | | | |
| 3,4-Dinitrotoluene | 96 | | 79 - 111 | | | | | | |

Lab Sample ID: 250-19606-3 MSD

Matrix: Water

Analysis Batch: 45295

Client Sample ID: 02Q14LCMW07SW

Prep Type: Total/NA

Prep Batch: 45167

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|--------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| HMX | ND | | 1.04 | 1.17 | | ug/L | | 113 | 67 - 115 | 5 | 32 |
| RDX | ND | | 1.04 | 1.19 | | ug/L | | 115 | 68 - 122 | 5 | 32 |
| Surrogate | %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 3,4-Dinitrotoluene | 101 | | 79 - 111 | | | | | | | | |

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

Lab Sample ID: MB 320-45232/1-A

Matrix: Water

Analysis Batch: 45684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45232

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Perchlorate | ND | | 0.50 | 0.082 | ug/L | | 06/20/14 08:47 | 06/25/14 20:46 | 1 |

TestAmerica Portland

QC Sample Results

Client: PBS Engineering and Environmental
 Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19606-2
 SDG: 76151.005 Phase 0008

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS (Continued)

Lab Sample ID: LCS 320-45232/2-A
Matrix: Water
Analysis Batch: 45684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45232

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------|-------------|------------|---------------|------|---|------|--------------|
| Perchlorate | 5.00 | 5.37 | | ug/L | | 107 | 80 - 120 |

Lab Sample ID: 250-19606-3 MS
Matrix: Water
Analysis Batch: 45805

Client Sample ID: 02Q14LCMW07SW
Prep Type: Total/NA
Prep Batch: 45232

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Perchlorate | ND | | 5.00 | 5.28 | | ug/L | | 106 | 80 - 120 |

Lab Sample ID: 250-19606-3 MSD
Matrix: Water
Analysis Batch: 45805

Client Sample ID: 02Q14LCMW07SW
Prep Type: Total/NA
Prep Batch: 45232

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|-------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| Perchlorate | ND | | 5.00 | 5.27 | | ug/L | | 105 | 80 - 120 | 0 | 15 |

Lab Sample ID: 250-19606-C-3-B MS
Matrix: Water
Analysis Batch: 45684

Client Sample ID: 250-19606-C-3-B MS
Prep Type: Total/NA
Prep Batch: 45232

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Perchlorate | ND | | 5.00 | 5.20 | | ug/L | | 104 | 80 - 120 |

Lab Sample ID: 250-19606-C-3-C MSD
Matrix: Water
Analysis Batch: 45684

Client Sample ID: 250-19606-C-3-C MSD
Prep Type: Total/NA
Prep Batch: 45232

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|-------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| Perchlorate | ND | | 5.00 | 5.27 | | ug/L | | 105 | 80 - 120 | 1 | 15 |

Certification Summary

Client: PBS Engineering and Environmental
 Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19606-2
 SDG: 76151.005 Phase 0008

Laboratory: TestAmerica Portland

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Oregon | NELAP | 10 | OR100021 | 01-09-15 |

Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|--------------------|---------------|------------|------------------|-----------------|
| A2LA | DoD ELAP | | 2928-01 | 01-31-16 |
| Alaska (UST) | State Program | 10 | UST-055 | 12-18-13 * |
| Arizona | State Program | 9 | AZ0708 | 08-11-14 |
| Arkansas DEQ | State Program | 6 | 88-0691 | 06-17-14 * |
| California | State Program | 9 | 2897 | 01-31-15 |
| Colorado | State Program | 8 | N/A | 08-31-14 |
| Connecticut | State Program | 1 | PH-0691 | 06-30-15 |
| Florida | NELAP | 4 | E87570 | 06-30-14 |
| Guam | State Program | 9 | N/A | 08-31-14 |
| Hawaii | State Program | 9 | N/A | 01-29-15 |
| Illinois | NELAP | 5 | 200060 | 03-17-15 |
| Kansas | NELAP | 7 | E-10375 | 10-31-14 |
| Louisiana | NELAP | 6 | 30612 | 06-30-14 |
| Michigan | State Program | 5 | 9947 | 01-31-15 |
| Nebraska | State Program | 7 | NE-OS-22-13 | 01-29-15 |
| Nevada | State Program | 9 | CA44 | 07-31-14 |
| New Jersey | NELAP | 2 | CA005 | 06-30-15 |
| Pennsylvania | NELAP | 3 | 9947 | 03-31-15 |
| South Carolina | State Program | 4 | 87014 | 06-30-14 |
| Texas | NELAP | 6 | T104704399-08-TX | 05-31-15 |
| US Fish & Wildlife | Federal | | LE148388-0 | 12-31-14 |
| USDA | Federal | | P330-11-00436 | 12-30-14 |
| USEPA UCMR | Federal | 1 | CA00044 | 11-06-14 |
| Utah | NELAP | 8 | QUAN1 | 02-28-15 |
| Washington | State Program | 10 | C581 | 05-05-15 |
| West Virginia (DW) | State Program | 3 | 9930C | 12-31-14 |
| Wyoming | State Program | 8 | 8TMS-Q | 01-29-15 |

* Certification renewal pending - certification considered valid.

Method Summary

Client: PBS Engineering and Environmental
Project/Site: Camp Bonneville GW Sampling

TestAmerica Job ID: 250-19606-2
SDG: 76151.005 Phase 0008

| Method | Method Description | Protocol | Laboratory |
|--------|----------------------------------|----------|------------|
| 8330A | Nitroaromatics and Nitramines | SW846 | TAL SAC |
| 6850 | Perchlorate by LC/MS or LC/MS/MS | EPA | TAL SAC |

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



TestAmerica

ANALYTICAL TESTING CORPORATION

18939 120th Avenue N.E., Suite 101
 East 11115 Montgomery, Suite B,
 9405 S.W. Nimbus Avenue, |
 2000 West International Airport Road, Suite A10, A.



250-19606 Chain of Custody

210
290
210
210

CHAIN OF CUSTODY REPORT Work Order #:

| CLIENT: PBS | | INVOICE TO: PBS | |
|--|--------------------|---------------------|---|
| REPORT TO: heidi.yantiz@pbsenv.com, jerry.orlando@pbsenv.com | | P.O. NUMBER: | |
| ADDRESS: 4412 SW Corbett Avenue, Portland, Oregon | | REQUESTED ANALYSES | |
| PHONE: 503.248.1939 | | FAX: 888.371.7891 | |
| PROJECT NAME: Camp Bonneville GW Sampling | | PERCHLORATE BY 6850 | |
| PROJECT NUMBER: 76151.005 Phase 0008 | | HMX and RDX BY 8330 | |
| SAMPLED BY: Scott Braunsten and Chad Koepfle | | | |
| CLIENT SAMPLE IDENTIFICATION | SAMPLING DATE/TIME | | |
| 072014LLM1050W | 6/13/14 1036 | X | X |
| 072014LLM1055W | 1130 | | |
| 072014LLM1075W | 1331 | | |
| 072014LLM1095W | 1436 | | |
| 072014LLM1150W | 0850 | ↓ | ↓ |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses

Petroleum Hydrocarbon Analyses

STD. 10 7 5 4 3 2 1 <1

STD. 5 4 3 2 1 <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

| MATRIX (W, S, O) | # OF CONT. | COMMENTS/SAMPLER'S INITIAL | NCA WO ID |
|------------------|------------|----------------------------|-----------|
| W | 3 | | |
| | 3 | | |
| | 7 | MS/MSD | |
| | 3 | | |
| ↓ | 3 | | |

RELINQUISHED BY: *Scott Braunsten* DATE: 6/13/14 FIRM: PBS

PRINT NAME: Scott Braunsten TIME: 1730

RECEIVED BY: *Tom Krause* DATE: 6/18/14 FIRM: TAG

PRINT NAME: Tom Krause TIME: 1730

RELINQUISHED BY: DATE: FIRM:

PRINT NAME: TIME: FIRM:

ADDITIONAL REMARKS: Use PBS sample for ALL QA/QC

TEMP: 5.0 | 5.6 | 4.8

PAGE 1 OF 1



Login Sample Receipt Checklist

Client: PBS Engineering and Environmental

Job Number: 250-19606-2
SDG Number: 76151.005 Phase 0008

Login Number: 19606

List Number: 1

Creator: Svabik-Seror, Philip M

List Source: TestAmerica Portland

| Question | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| 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. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (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 | |



Login Sample Receipt Checklist

Client: PBS Engineering and Environmental

Job Number: 250-19606-2
SDG Number: 76151.005 Phase 0008

Login Number: 19606

List Number: 2

Creator: Edwards, Stephanie N

List Source: TestAmerica Sacramento

List Creation: 06/18/14 12:04 PM

| Question | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is \leq 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. | N/A | |
| 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? | N/A | |
| 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. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

