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January 12, 2018 20170115

Mr. Dennis Geiser
Regional Environmental Engineer
Forest Service
Pacific Southwest Region, Regional Office
1323 Club Drive
Vallejo, CA 94592

Focused Site Inspection for the Cabins Area
Mammoth Mill Site
Mono County, California

Dear Mr. Geiser:

Engineering/Remediation Resources Group, Inc. (ERRG) has prepared this letter to summarize the results of Focused Site Inspection (SI) at the Cabins Area of the Mammoth Mill Site in Mono County, California.

The objective of this Focused SI was to further delineate the vertical and horizontal extent of contaminants of concern (COCs) (arsenic and mercury) in soil around the Cabins Area (Figure 1; Enclosure 1) and to calculate impacted soil volumes in support of planned removal action activities at the site. Previous sampling conducted in support of the Preliminary Assessment/Site Inspection (PA/SI)[1] and subsequent risk assessment refinement[2] indicated that COC concentrations in surface soil collected from the Cabin Area exceeded criteria protective of human health. Previous sampling in the Cabins Area included surface soil samples only and assumed that elevated concentrations of COCs extend to a depth of one foot below ground surface (bgs). Additional sampling was recommended delineate the vertical and horizontal extent of COCs in soil.

All work was conducted in accordance with the approved Sampling Approach letter for the Focused SI[3] and Final PA/SI Work Plan[4]. The following sections present Focused SI field activities, data evaluation, volume estimates, and conclusions and recommendations.

Field Activities

Field activities were conducted between October 9 and 13, 2017. ERRG collected surface and subsurface samples on a 50-foot grid, to further delineate the vertical and horizontal extent of COCs in soil. The

[1] ERRG, 2016. "Final Preliminary Assessment/Site Inspection Report for the Mammoth Mining Company Stamp Mill Site, Inyo National Forest, Mono County, California." November.
[2] ERRG, 2017. "Technical Memorandum for Refinement of Streamlined Human Health Risk Assessment, Mammoth Mining Company Stamp Mill Site, Inyo National Forest, Mono County, California." January 23.
[3] ERRG, 2017. "Sampling Approach Focused Site Investigation for the Cabins Area, Mammoth Mill Site, Mono County, California." September 27.
[4] ERRG, 2014. "Final Work Plan for Preliminary Assessment/Site Inspection at Mammoth Mill, Inyo National Forest, Mono County, California." August.

sampling approach and sample grid within the Cabins Area (an area of approximately 3 acres encompassing cabins 7, 8, 9, 12, 13, and 26) were established based on results of the PA/SI and were presented in the approved Sampling Approach letter as the area to be delineated. Existing data from previous sampling was incorporated into the dataset for this study to supplement results of the grid sampling and avoid oversampling. Additionally, no samples were proposed to be collected from within the diversion ditch, which is considered a separate subarea.

Prior to collecting soil samples, ERRG screened surface and subsurface soil within each grid cell using a portable x-ray fluorescence (XRF) analyzer. Results of XRF screening were used to guide collection of soil samples for analysis by a California-Certified analytical laboratory. XRF readings were compared to the following criteria established in the Sampling Approach letter to determine which cells had COCs above cleanup goals and required vertical delineation.

COC	Cleanup Level (mg/kg)
Arsenic	13.3
Mercury	31

Notes:
Cleanup levels are presented in the Action Memorandum[5]

As noted in Table 1 (Enclosure 2), the average level of detection (for non-detects) was 14.3 mg/kg, above the cleanup goal of 13.3 mg/kg. The average mercury XRF level of detection (for non-detects) was 17.3 mg/kg, below the cleanup goal of 31 mg/kg. As a result, mercury XRF screening results were used over arsenic XRF screening results as the primary guide for field decisions regarding where to collect samples for laboratory analysis.

Following surface screening, a hand auger and shovel were used to collect samples at depth from grid cells with COCs above the cleanup levels. Subsurface soil was screened with the XRF at 6-inch intervals to evaluate the vertical extent of mercury and arsenic contamination. When XRF readings indicated the vertical extent of contamination had been reached (i.e., XRF results were below cleanup goals), a soil sample was collected from the corresponding depth for laboratory analysis.

All XRF readings were recorded on field logs and sample locations were mapped in the field using a Trimble global positioning system (GPS) capable of sub-meter accuracy. All soil samples for off-site laboratory analysis were collected using disposable scoops into 8-oz glass jars with Teflon-lined caps and submitted for laboratory analysis of arsenic by EPA Method 6010B and mercury by EPA Method 7470/7471 (in accordance with the original PA/SI work plan and sampling and analysis plan).

During subsurface sampling, ERRG's field staff noted the presence of tailings material at all locations where XRF screening results for mercury exceeded cleanup goals with the exception of locations S-108 and XRF-32 (collected from the west and east sides of the creek, respectively). These two samples that did not exhibit visible tailings may represent floodplain deposits from the creek (see photographs 27 and 28 in

[5] Forest Service, 2017. "Removal Action Memorandum, Time-Critical Removal Action, Mammoth Stamp Mill Site, Inyo National Forest." April 14.

Enclosure 3). In three locations (MM-S-24, MM-S-46, and MM-S-53) tailings materials were not observed at the surface, but tailings were present in the subsurface, beneath a layer of vegetative duff and clean soil. At location MM-S-53, mine tailings and elevated mercury concentrations were observed only at depths between 1.0 and 2.5 feet bgs. The concentrations of mercury in the tailings actually increased with depth at this location (see photograph 21 in Enclosure 3).

Table 1 (Enclosure 2) and Figures 2 through 5 (Enclosure 1) present all XRF and laboratory data results.

Deviations from the Work Plan

The original sampling approach outlined in the work plan, called for collection of XRF and laboratory samples from within grid cells across approximately 3 acres within the Cabins Area, which was originally defined (in the PA/SI) as encompassing cabins 7, 8, 9, 12, 13, and 26 and extending northward just beyond Cabin 13 (see Figure 1; Enclosure 1). During field XRF screening, ERRG identified an additional 5-acre area north of the grid cells within the Cabins Area that exhibited elevated XRF readings in surface soil and visible tailings at the surface. This previously unsampled area encompasses cabins 1 through 6 and Cabin 10, as well as areas surrounding these cabins. Full delineation of the lateral and vertical extent of impacted surface and subsurface soil in this area would have required an increase in scope for additional sample collection and laboratory analysis. In consultation with the Forest Service COR, ERRG modified the sampling approach in the field without changing the overall scope (or cost) of the sampling effort. As a result, ERRG conducted surface XRF screening across the additional 5-acre area to approximately delineate the lateral extent of impacted soil. ERRG also requested that the laboratory hold samples collected from areas beyond or beneath the extent of COCs established by XRF screening so that additional samples could be analyzed from the 5-acre northern area. This approach allowed for partial delineation of the northern area without requiring a scope change to fully delineate the lateral and vertical extent of COCs in this new area. XRF screening locations in this northern area where no laboratory sample was collected were designated “XRF-1” through “XRF-32” to distinguish them from XRF grid sampling locations in the original 3-acre Cabins Area (see Table 1, Enclosure 2).

Following receipt of analytical results, ERRG conducted a preliminary screen of the data to determine whether any of the samples being held by the laboratory required analysis. Based on the results of this screen, ERRG requested that seven of the “held” samples be analyzed. Analysis took place between 34 and 36 days after sample collection. The holding time for mercury (EPA Method 7470/7471) is 28 days. As noted in the EPA method “A longer holding time may be appropriate if it can be demonstrated that the reported analyte concentrations are not adversely affected by preservation, storage and analyses performed outside the recommended holding times.” Because the samples were analyzed within 8 days of the holding time and because the source of the mercury (mine tailings from the 1800s) has been onsite for a significantly longer time, the mercury data are considered useable.

Data Evaluation

ERRG screened all XRF and laboratory data against the established cleanup goals for the site as presented in Table 1 (Enclosure 2) and Figures 2 through 5 (Enclosure 1). Data were then evaluated to estimate the

lateral and vertical extent of soil with COCs exceeding the cleanup goals[6]. The following approach was used to estimate the lateral and vertical extent and define removal area and depths:

1. Samples where laboratory results for mercury or arsenic exceeded cleanup goals were retained within the removal area
2. Samples where XRF results for mercury exceeded cleanup goals were retained within the removal area
3. Samples where XRF results of arsenic exceeded cleanup goals were generally retained within the removal area, except as noted in bullet 4 below.
4. Locations where XRF results for arsenic exceeded cleanup goals at relatively low levels (i.e., below 25 mg/kg) were evaluated to determine whether they were co-located with laboratory sample results exceeding the arsenic or mercury cleanup goals or with mercury XRF screening result exceedances; where not co-located with one of these additional screening level, these samples were not retained within the removal area. The following sample locations where XRF results for arsenic were above the cleanup goal (13.3 mg/kg) but below 25 mg/kg were not included in the removal area: MM-S-75-00, MM-S-81-00, MM-S-82-00, MM-S-101-00, XRF-06-00, and XRF-19-00. Finally, location MM-S-13 with an XRF arsenic reading of 135 mg/kg (recorded in the 2014 sampling event) was considered anomalous and not retained because the corresponding laboratory result for this location was 3.9 mg/kg.
5. The evaluation of the vertical extent of COCs in the previously unsampled northern area relied upon only six subsurface laboratory samples (where the depth of COCs varied from 1.0 to 3.0 feet bgs. The evaluation of the vertical extent of COCs in the original Cabins Area relied upon 44 subsurface laboratory samples where the depth of COCs varied from 0.5 to 3.0 feet bgs. For the purposes of estimating approximate volumes, a depth of 1.5 feet bgs was assigned to the entire removal area, based on available data.

The resulting removal area is shown on Figure 6 (Enclosure 1).

Conclusions, Volume Estimates, and Recommendations

The removal area comprises approximately 205,694 square feet (Figure 6; Enclosure 1). Assuming an average depth of 1.5 feet across the area, this corresponds to a removal volume of approximately 11,427 cubic yards (note: this includes approximately 420 cubic yards contained within the previously designated Mill Area, but that overlap with the area of the cabins).

Based on field observations during this Focused SI, the impacted area is characterized by mine tailings mixed with impacted soil where the mine tailings are not always visible at the ground surface. In several instances, mine tailings were observed only after removing the top 0.5 – 1 foot of vegetative duff and soil. This suggests that either the amount of local vegetation in the area is sufficient to have developed a small soil horizon above the tailings, or earthmoving activities have been conducted at the site that resulted in clean soil being placed on top of the tailings.

[6] As noted under "Deviations from the Work Plan" insufficient data are available to fully delineate the extent of contamination north of Cabin 13.

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The lateral and vertical extent of impacted soil in the area from approximately Cabin 13 and south is considered well defined. Because only six subsurface laboratory sample locations are available for the area north of Cabin 13, the northern portion of the removal area is not considered well delineated laterally or vertically.

To fully delineate the northern portion of the removal area, additional sampling should be considered. In the event that additional delineation sampling is not completed prior to removal activities, a confirmation sampling and over-excavation approach should be included in the removal action work plan.

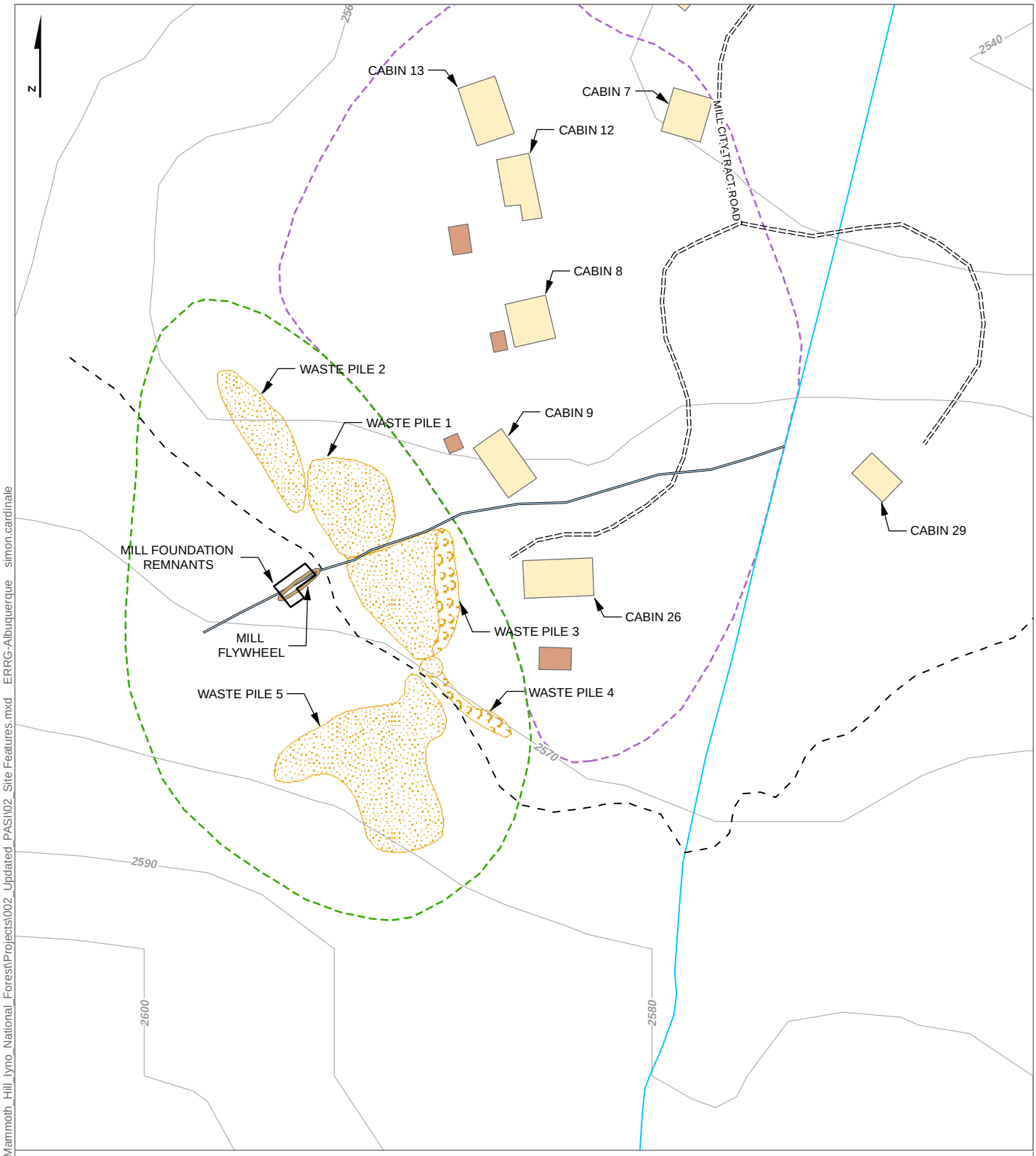
Please contact me at (415) 425-2075 with any questions or require additional information related to this project.

Sincerely,

Caitlin Gorman, P.G.
Regional Manager

Enclosures:
1 – Figures
2 – Tables
3 – Photographic Log
4 – 2017 Field Logs
5 – 2017 Laboratory Analytical Data

Enclosure 1. Figures



Elevation Contour* (10-meter interval)
Unimproved Road
Mill Diversion Trench
Tributary to Mammoth Creek
Main Trail
Mill Area
Cabin Area
Waste Pile
Cobbles and Boulders
Cabin
Shed

Note:
* Elevation contours are derived from the Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) global digital elevation model.

2015-09-29 W:\2014\2014-083_Mammoth_Hill_Iyno_National_Forest\Projects\002_Updated_PAS\02_Site Features.mxd ERRG-Albuquerque simon.cardinale

Figure 1. Site Features
Mammoth Mill, Inyo National Forest

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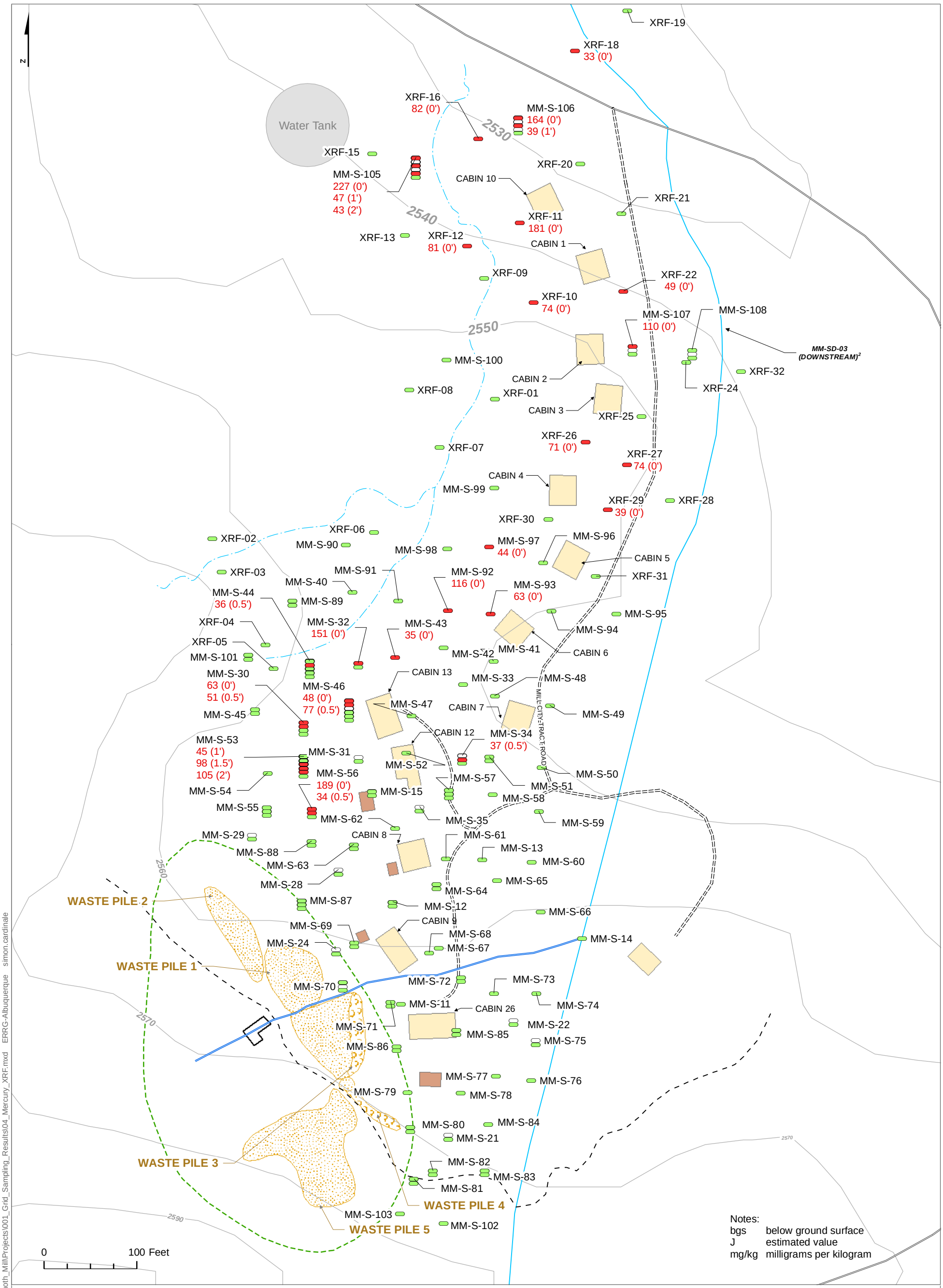

2018-01-11 W:\2017\2017\0115_USFS_Mammoth_Mill\Projects\001_Grid_Sampling_Results\04_Mercury_XRF.mxd ERRG-Albuquerque simon.cardinale

Figure 2. Mercury X-Ray Fluorescence Readings

Mammoth Mill, Inyo National Forest

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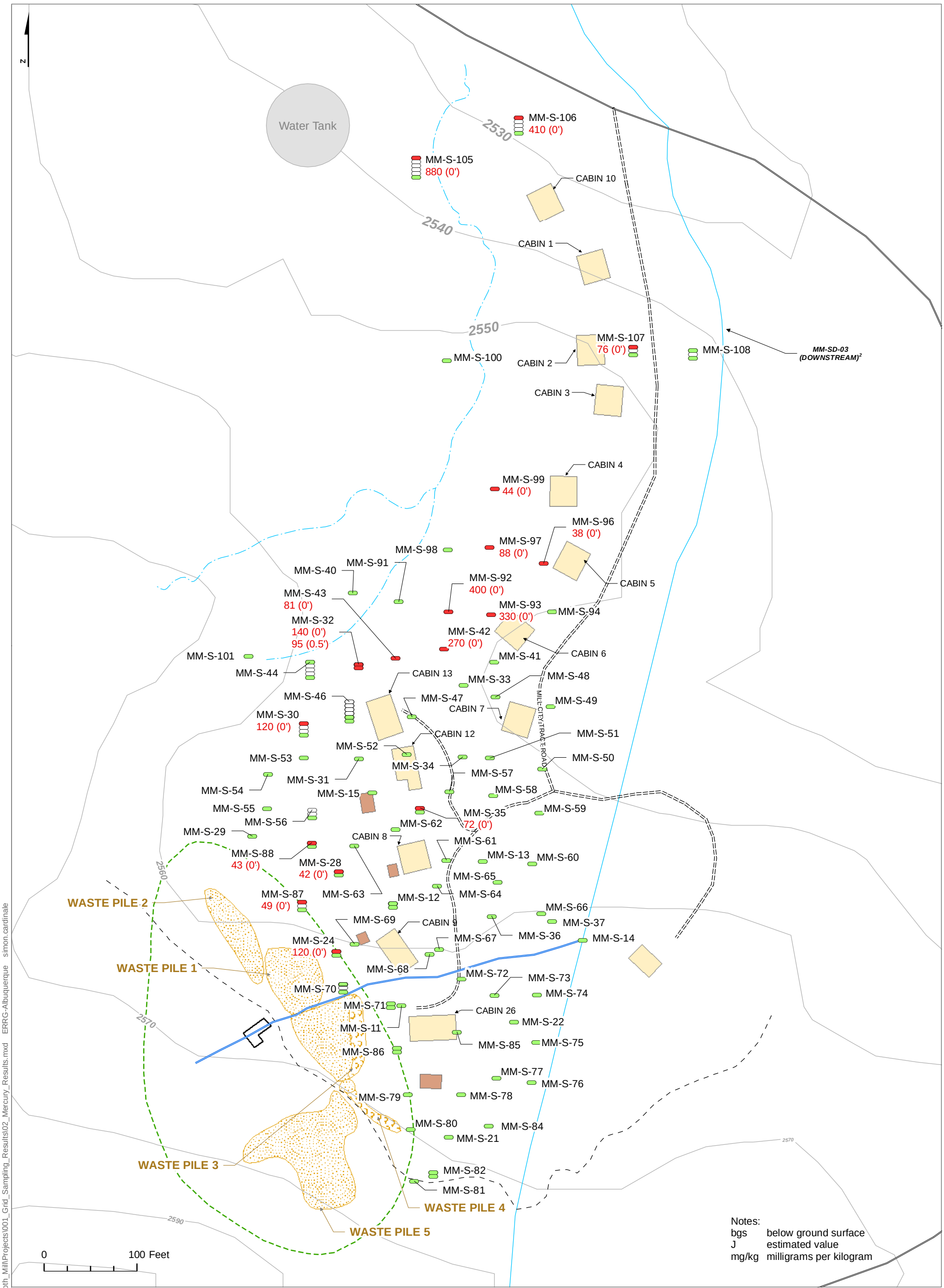

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Figure 3. Mercury Laboratory Sampling Results

Mammoth Mill, Inyo National Forest

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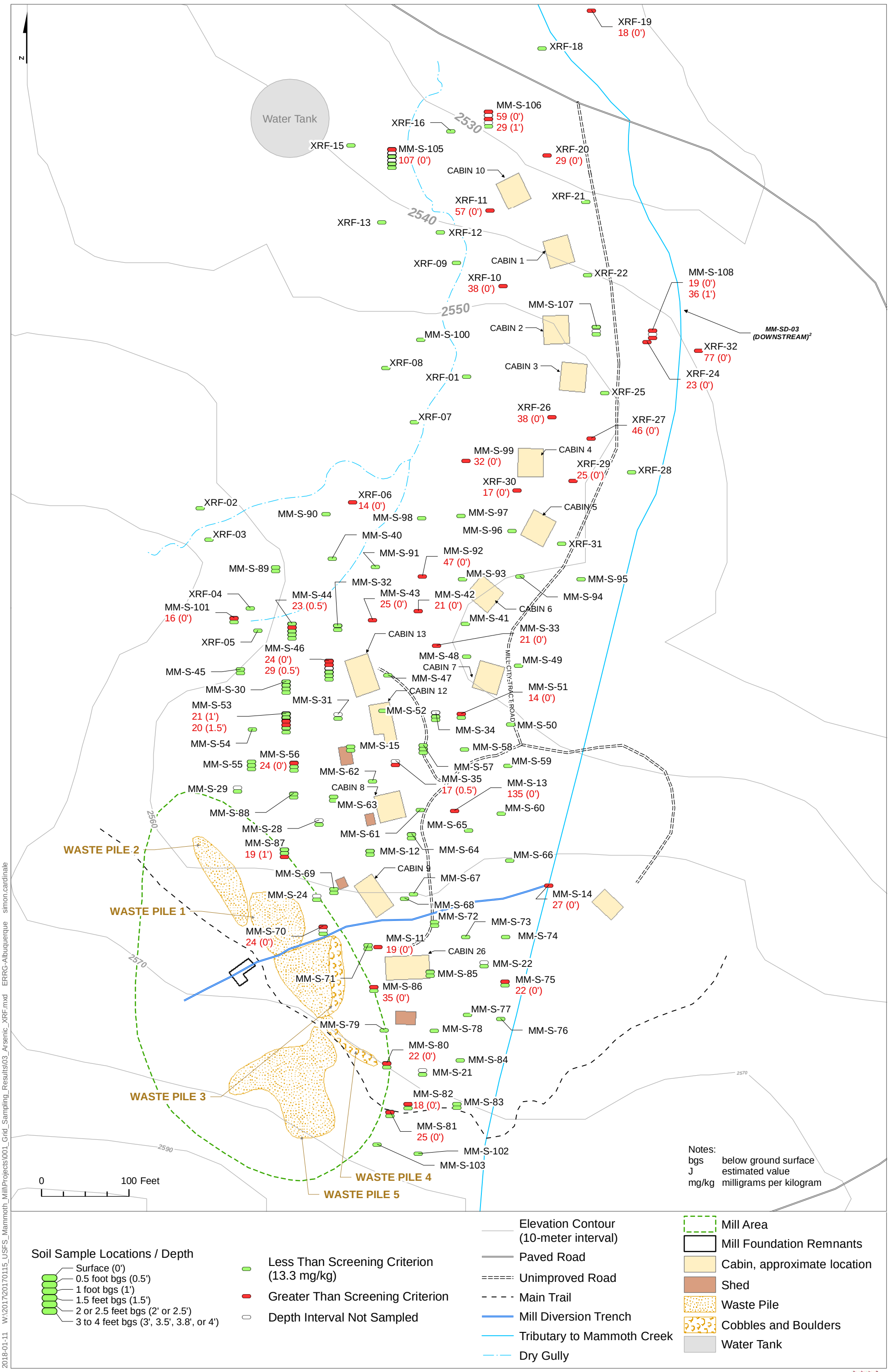

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Figure 4. Arsenic X-Ray Fluorescence Readings

Mammoth Mill, Inyo National Forest

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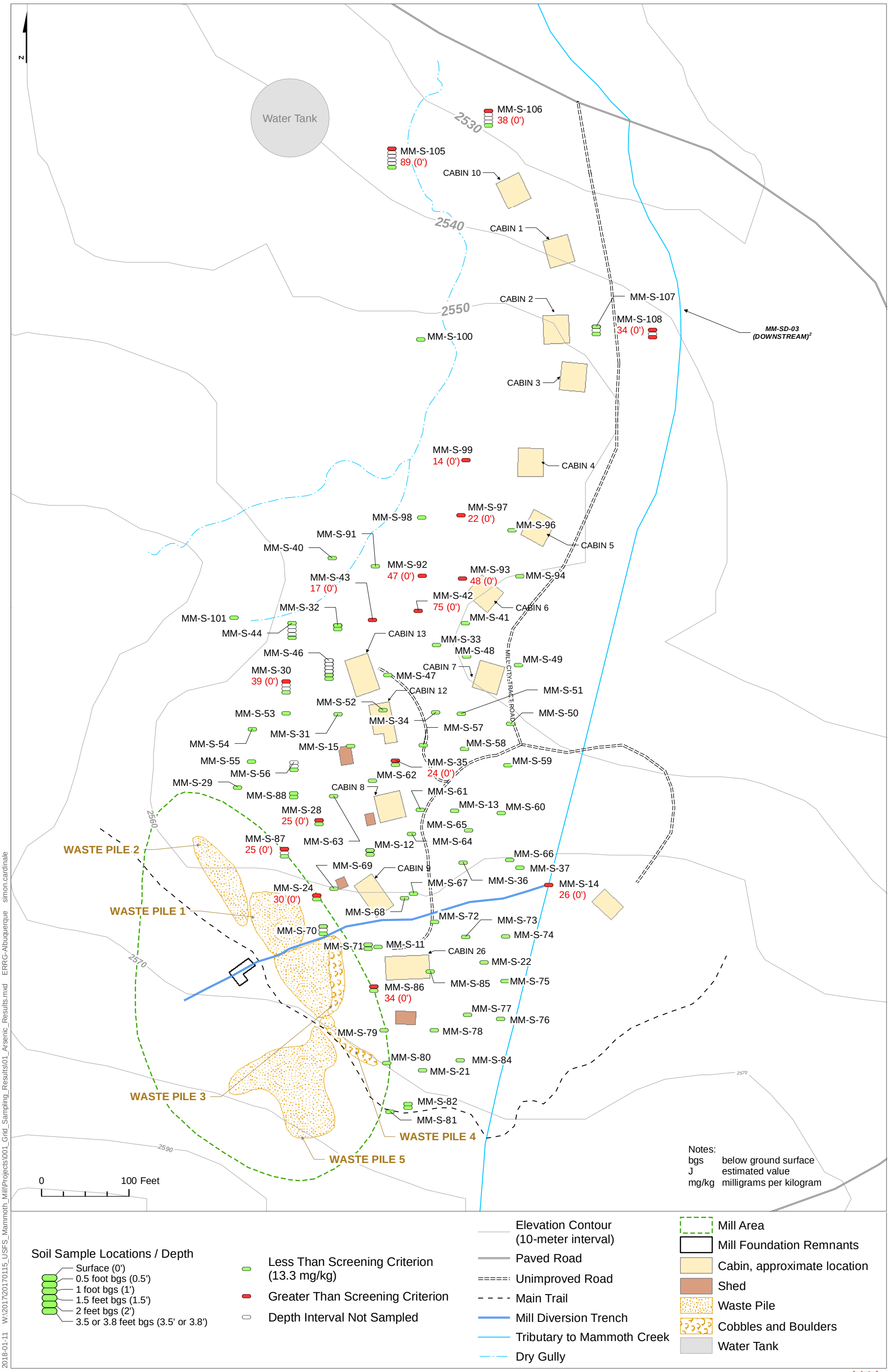

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Figure 5. Arsenic Laboratory Sampling Results

Mammoth Mill, Inyo National Forest

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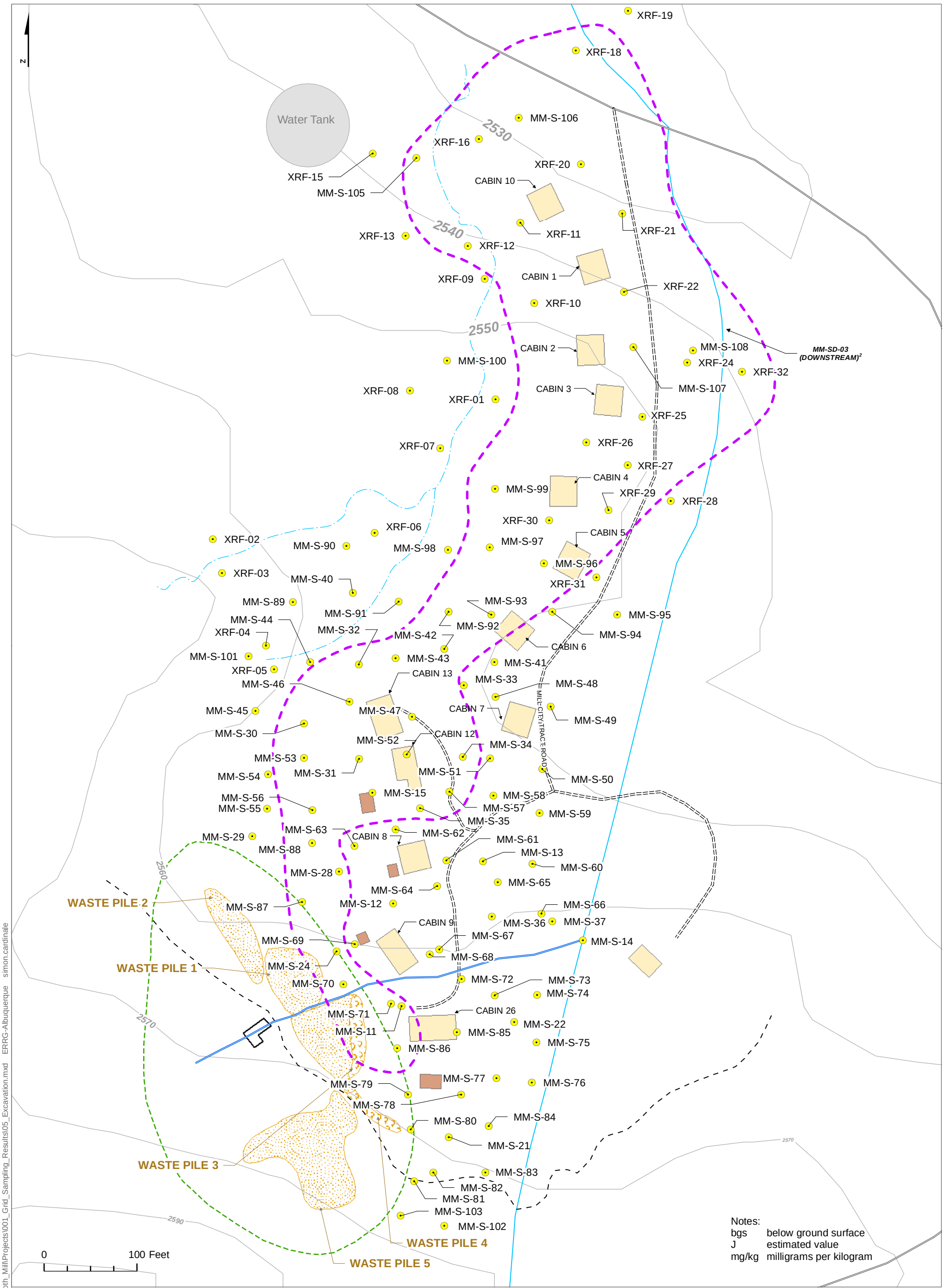

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Figure 6. Approximate Extent of Excavation Area

Mammoth Mill, Inyo National Forest

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Enclosure 2. Tables

Table 1. Sampling Results

Sample ID	Sample Date	Mercury Results (mg/kg)		Arsenic Results (mg/kg)	
		XRF Screen[1]	Laboratory Result	XRF Screen[2]	Laboratory Result
MM-S-11-0.0	7/31/2014	14.4	0.98	**19.2**	4.4
MM-S-12-0.0	7/31/2014	30	18	9	9.1
MM-S-12-0.5	10/11/2017	ND	0.79	ND	3.8
MM-S-13-0.0	7/31/2014	27	3.9	**135**	4.0
MM-S-14-0.0[3]	7/31/2014	21.8	23	**27**	**26**
MM-S-15-0.0	7/31/2014	ND	0.54	ND	3.3
MM-S-15-0.5	10/11/2017	ND	--	ND	--
MM-S-21-0.0	6/3/2015	--	0.77	--	6.4
MM-S-21-0.5	10/10/2017	ND	--	ND	--
MM-S-22-0.0	6/3/2015	--	0.58	--	4.6
MM-S-22-0.5	10/10/2017	ND	--	ND	--
MM-S-24-0.0	6/3/2015	--	**120**	--	**30**
MM-S-24-0.5	10/11/2017	ND	2	ND	3.4
MM-S-28-0.0	6/3/2015	--	**42**	--	**25**
MM-S-28-0.5	10/10/2017	ND	2	ND	5.2
MM-S-29-00	6/3/2015	--	2.1	--	4.6
MM-S-29-0.5	10/11/2017	ND	--	ND	--
MM-S-30-00	6/3/2015	**63**	**120**	ND	**39**
MM-S-30-0.5	10/11/2017	**51**	--	ND	--
MM-S-30-1.0	10/11/2017	25	--	ND	--
MM-S-30-1.5	10/11/2017	ND	3.1	ND	4.9
MM-S-31-0.0	6/3/2015	--	0.88	--	3.1
MM-S-31-0.5	10/11/2017	ND		ND	
MM-S-32-0.0	6/3/2015	**151**	**140**	ND	10
MM-S-32-0.5	10/11/2017	ND	**95**	ND	9
MM-S-33-0.0	6/3/2015	ND	14	**21**	8.4
MM-S-34-0.0	6/3/2015	--	4	--	6.8
MM-S-34-0.5	10/11/2017	**37**	--	ND	--
MM-S-34-1.0	10/11/2017	ND	--	ND	--
MM-S-35-0.0	6/3/2015	--	**72**	--	**24**
MM-S-35-0.5	10/11/2017	ND	3.2 (H)	ND	5.6
MM-S-36-0.0	6/3/2015	--	0.62	--	4.3
MM-S-37-0.0	6/3/2015	--	2	--	6.4
MM-S-40-00	10/9/2017	13.9	14	12.8	4.3
MM-S-41-00	10/9/2017	ND	13	ND	6.8
MM-S-42-00	10/9/2017	19	**270** (H)	**21**	**75**
MM-S-43-00	10/9/2017	**35**	**81** (H)	**25**	**17**
MM-S-44-00	10/9/2017	21	26 (H)	ND	11
MM-S-44-0.5	10/11/2017	**36**	--	**23**	--
MM-S-44-1.0	10/11/2017	23	--	ND	--
MM-S-44-1.5	10/11/2017	22	--	ND	--
MM-S-44-2.0	10/11/2017	ND	21	ND	4.3

Table 1. Sampling Results *(continued)*

Sample ID	Sample Date	Mercury Results (mg/kg)		Arsenic Results (mg/kg)	
		XRF Screen[1]	Laboratory Result	XRF Screen[2]	Laboratory Result
MM-S-45-00	10/9/2017	5	--	ND	--
MM-S-45-0.5	10/11/2017	ND	--	ND	--
MM-S-46-00	10/13/2017	**48**	--	**24**	--
MM-S-46-0.5	10/13/2017	**77**	--	**29**	--
MM-S-46-1.5	10/13/2017	22	--	ND	--
MM-S-46-2.0	10/11/2017	23	2.7	ND	3.9
MM-S-46-3.8	10/13/2017	ND	0.77	13	7
MM-S-47-00	10/9/2017	ND	0.92	ND	8
MM-S-48-00	10/9/2017	ND	0.93	ND	5.1
MM-S-49-00	10/9/2017	ND	0.83	ND	6.7
MM-S-50-00	10/9/2017	ND	1.4	ND	6.4
MM-S-51-00	10/9/2017	ND	5	**14**	4.5
MM-S-51-0.5	10/10/2017	ND		ND	
MM-S-52-00	10/9/2017	ND	4.3	ND	5
MM-S-53-00	10/9/2017	ND	7.4	ND	5.2
MM-S-53-0.5	10/11/2017	12	--	ND	--
MM-S-53-1.0	10/11/2017	**45**	--	**21**	--
MM-S-53-1.5	10/11/2017	**98**	--	**20**	--
MM-S-53-2.0	10/11/2017	**105**	--	ND	--
MM-S-53-2.5	10/13/2017	ND	--	ND	--
MM-S-53-4.0	10/13/2017	ND	--	ND	--
MM-S-54-00	10/9/2017	ND	1.2	ND	4.4
MM-S-55-00	10/9/2017	ND	4.6	ND	4.3
MM-S-55-0.5	10/10/2017	25	--	ND	--
MM-S-55-1.0	10/10/2017	ND	--	ND	--
MM-S-56-00	10/9/2017	**189**	--	ND	--
MM-S-56-0.5	10/10/2017	**34**	--	ND	--
MM-S-56-1.0	10/10/2017	ND	14	ND	5.6
MM-S-57-00	10/9/2017	ND	8.1	ND	6.2
MM-S-57-0.5	10/10/2017	26	--	ND	--
MM-S-57-1.0	10/10/2017	ND	--	ND	--
MM-S-58-00	10/9/2017	ND	3.8	ND	9.4
MM-S-59-00	10/9/2017	ND	2.8	ND	6.1
MM-S-60-00	10/9/2017	ND	8.8	ND	12
MM-S-61-00	10/9/2017	ND	0.95	ND	4.7
MM-S-62-00	10/9/2017	ND	3.8	ND	6.7
MM-S-63-00	10/9/2017	ND	2.9	ND	3.5
MM-S-63-0.5	10/10/2017	ND	--	ND	--
MM-S-64-00	10/9/2017	ND	1.4	ND	3.8
MM-S-64-0.5	10/10/2017	ND	--	ND	--
MM-S-65-00	10/9/2017	ND	3.6	ND	5.1
MM-S-66-00	10/9/2017	ND	0.95	ND	5

Table 1. Sampling Results *(continued)*

Sample ID	Sample Date	Mercury Results (mg/kg)		Arsenic Results (mg/kg)	
		XRF Screen[1]	Laboratory Result	XRF Screen[2]	Laboratory Result
MM-S-67-00	10/10/2017	ND	0.57	ND	11
MM-S-68-00	10/10/2017	ND	4.3	ND	7.8
MM-S-69-00	10/10/2017	ND	5.6	ND	7.4
MM-S-69-0.5	10/10/2017	ND	--	ND	--
MM-S-70-00	10/10/2017	ND	7.9	**24**	10
MM-S-70-1.0	10/10/2017	ND	11	ND	7
MM-S-71-00	10/10/2017	15	1.5	ND	3.8
MM-S-71-0.5	10/10/2017	ND	0.42	ND	2.6 J
MM-S-72-00	10/10/2017	ND	1.2	ND	4.9
MM-S-72-0.5	10/10/2017	ND	--	ND	--
MM-S-73-00	10/10/2017	ND	1.3	ND	5.6
MM-S-74-00	10/10/2017	ND	0.44	ND	6.2
MM-S-75-00	10/10/2017		0.61	**22**	7.5
MM-S-75-0.5	10/10/2017	ND	--	ND	--
MM-S-76-00	10/10/2017	ND	0.76	ND	12
MM-S-77-00	10/10/2017	ND	0.84	ND	2.1 J
MM-S-78-00	10/10/2017	ND	1.5	ND	5.5
MM-S-79-00	10/10/2017	ND	0.29	ND	3.9
MM-S-80-00	10/10/2017	ND	8	**22**	4.5
MM-S-80-0.5	10/10/2017	ND	--	ND	--
MM-S-81-00	10/10/2017	ND	2.1	**25**	8.7
MM-S-81-0.5	10/10/2017	ND	--	ND	--
MM-S-82-00	10/10/2017	ND	0.22	**18**	6.1
MM-S-82-0.5	10/10/2017	ND	0.2	ND	11
MM-S-83-00	10/10/2017	ND	--	ND	--
MM-S-83-0.5	10/10/2017	ND	--	ND	--
MM-S-84-00	10/10/2017	ND	3	ND	9.1
MM-S-85-00	10/10/2017	ND	2.8	ND	6.8
MM-S-85-0.5	10/10/2017	ND	--	ND	--
MM-S-86-00	10/10/2017	12	3.6	**35**	**34**
MM-S-86-0.5	10/10/2017	ND	1.4	ND	11
MM-S-87-00	10/10/2017	22	**49**	ND	**25**
MM-S-87-0.5	10/10/2017	15	--	ND	--
MM-S-87-1.0	10/10/2017	ND	7.3	ND	4.5
MM-S-88-00	10/10/2017	12	**43**	ND	9.5
MM-S-88-0.5	10/10/2017	ND	6.7 (H)	ND	**19**
MM-S-89-00	10/11/2017	ND	--	ND	--
MM-S-89-0.5	10/11/2017	ND	--	ND	--
MM-S-90-00	10/10/2017	ND	--	ND	--
MM-S-91-00	10/10/2017	ND	10 (H)	ND	**19**
MM-S-92-00	10/10/2017	**116**	**400**	**47**	**47**
MM-S-93-00	10/10/2017	**63**	**330**	ND	**48**

Table 1. Sampling Results *(continued)*

Sample ID	Sample Date	Mercury Results (mg/kg)		Arsenic Results (mg/kg)	
		XRF Screen[1]	Laboratory Result	XRF Screen[2]	Laboratory Result
MM-S-94-00	10/10/2017	20	5.7	ND	5.9
MM-S-95-00	10/10/2017	ND	--	ND	--
MM-S-96-00	10/10/2017	16	**38**	ND	11
MM-S-97-00	10/10/2017	**44**	**88**	ND	**22**
MM-S-98-00	10/10/2017	ND	23	ND	8
MM-S-99-00	10/10/2017	ND	**44**	**32**	**14**
MM-S-100-00	10/10/2017	ND	6	ND	4.1
MM-S-101-00	10/10/2017	ND	13	**16**	6.8
MM-S-101-0.5	10/11/2017	ND	--	ND	--
MM-S-102-00	10/10/2017	ND	--	ND	--
MM-S-103-00	10/10/2017	ND	--	ND	--
MM-S-105-00[4]	10/13/2017	**227**	**880**	**107**	**89**
MM-S-105-1.0[4]	10/13/2017	**47**	--	ND	--
MM-S-105-2.0[4]	10/13/2017	**43**	--	ND	--
MM-S-105-3.0[4]	10/13/2017	ND	--	ND	--
MM-S-105-3.5[4]	10/13/2017	ND	1.1	ND	7.3
MM-S-106-00[4]	10/13/2017	**164**	**410**	**59**	**38**
MM-S-106-1.0[4]	10/13/2017	**39**	--	**29**	--
MM-S-106-2.0[4]	10/13/2017	ND	1.4	ND	4.5
MM-S-107-00[4]	10/13/2017	**110**	**76**	ND	11
MM-S-107-1.0[4]	10/13/2017	ND	1	ND	3.6
MM-S-108-00[4]	10/13/2017	ND	1.6	**19**	**34**
MM-S-108-1.0[4]	10/13/2017 [5]	ND	**34** (H)	**36**	1.1
XRF-01-0.0	10/10/2017	30	--	ND	--
XRF-02-0.0	10/11/2017	ND	--	ND	--
XRF-03-0.0	10/11/2017	ND	--	ND	--
XRF-04-0.0	10/11/2017	ND	--	ND	--
XRF-05-0.0	10/11/2017	ND	--	ND	--
XRF-06-0.0	10/11/2017	13.6	--	**14**	--
XRF-07-0.0	10/11/2017	30	--	ND	--
XRF-08-0.0	10/11/2017	ND	--	ND	--
XRF-09-0.0	10/11/2017	ND	--	ND	--
XRF-10-0.0	10/11/2017	**74**	--	**38**	--
XRF-11-0.0	10/11/2017	**181**	--	**57**	--
XRF-12-0.0	10/11/2017	**81**	--	ND	--
XRF-13-0.0	10/11/2017	ND	--	ND	--
XRF-15-0.0	10/11/2017	ND	--	ND	--
XRF-16-0.0	10/11/2017	**82**	--	ND	--
XRF-18-0.0	10/11/2017	**33**	--	ND	--
XRF-19-0.0	10/11/2017	ND	--	**18**	--
XRF-20-0.0	10/11/2017	24	--	**29**	--
XRF-21-0.0	10/11/2017	ND	--	ND	--

Table 1. Sampling Results *(continued)*

Sample ID	Sample Date	Mercury Results (mg/kg)		Arsenic Results (mg/kg)	
		XRF Screen[1]	Laboratory Result	XRF Screen[2]	Laboratory Result
XRF-22-0.0	10/11/2017	**49**	--	ND	--
XRF-24-0.0	10/11/2017	ND	--	**23**	--
XRF-25-0.0	10/11/2017	17	--	ND	--
XRF-26-0.0	10/11/2017	**71**	--	**38**	--
XRF-27-0.0	10/11/2017	**74**	--	**46**	--
XRF-28-0.0	10/11/2017	ND	--	ND	--
XRF-29-0.0	10/11/2017	**39**	--	**25**	--
XRF-30-0.0	10/11/2017	29	--	**17**	--
XRF-31-0.0	10/11/2017	ND	--	ND	--
XRF-32-0.0	10/11/2017	ND	--	**77**	--
Cleanup Goal			31		13.3

Note:

1. Average error on mercury XRF screening data collected in October 2017 is 12.8 mg/kg; average level of detection is 14.3 mg/kg
2. Average error on arsenic XRF screening data collected in October 2017 is 14.4 mg/kg; average level of detection is 17.3 mg/kg
3. Sample MM-S-14-0.0 was collected from within the diversion ditch during the 2014 sampling event. The ditch was excluded from the focus of this study, but this sample is included on the figures and tables for reference.
4. Sample locations MM-S-105, MM-S-106, MM-S-107, and MM-S-108 correspond to XRF screening locations XRF-14, -17 -23-and -33, respectively
5. Sample collection date for MM-S-108-1.0 was erroneously recorded as 10/11/17 on the chain of custody. Correct collection date is 10/13/17

H. Mercury analyzed outside the method holding time of 28 days (sample analyzed within 8 days of holding time expiration). Data are still considered useable (as discussed in the "Deviations from the Work Plan" section of the letter report.

Enclosure 3. Photographic Log

Photo 1: Cabin 5 (with Nunez sign), facing northwest.
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 2: Cabin 6 with carved bear statue in front yard, facing southwest.
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11 2017

Photo 3: Overview of cabins from road, facing northwest
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 4: Overview of cabins, facing west (Cabin 13 [green roof on right] and Cabin 12 [center])
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 5: Overview of cabins, facing south-southwest; Cabin 8 in foreground.
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 6: Overview of Cabin 8 (foreground) and Cabin 9 along road, facing south.
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 7: Cabin 9, facing southwest.
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 8: Woodpile and picnic table near Cabin 9, facing northwest.
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 9: Cabin 26 (Ivanhoe Lodge), facing west.
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 10: Yard behind Cabin 26 (Ivanhoe Lodge) with tarped woodpile and wastepiles visible through trees in background, facing northwest.
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 11: Tarped woodpile and waste piles behind Cabin 26 (Ivanhoe Lodge), facing west.

Mammoth Mill Site, Mammoth Lakes, California

Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 12: Mill Diversion Trench, between behind Cabin 26 and Cabin 9, facing north (towards Cabin 9).

Mammoth Mill Site, Mammoth Lakes, California

Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 13: Fire pit behind Cabin 13, facing west.
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 9, 2017

Photo 14: Closeup of bricks in fire pit behind Cabin 13.
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 9, 2017

Photo 15: Tailings visible at surface in parking area east of Cabin 13, facing northwest.

Mammoth Mill Site, Mammoth Lakes, California

Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 16: Tailings visible at surface beneath grill in backyards of cabins 6 and 7, facing northwest.

Mammoth Mill Site, Mammoth Lakes, California

Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 17: Tailings visible at surface beneath picnic table behind Cabin 6 (white pin flag at sample MM-S-92 visible in background near woodpile), facing north.
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 18: Closeup of tailings at surface at sample MM-S-92.
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 10, 2017

Photo 19: Tailings visible just beneath surface (beneath vegetative duff) behind Cabin4. Cabins 3 and 2 visible in background (white pin flag at sample MM-S-99 visible at center), facing north.

Mammoth Mill Site, Mammoth Lakes, California

Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 20: Closeup of tailings visible just beneath surface at sample MM-S-99.

Mammoth Mill Site, Mammoth Lakes, California

Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 10, 2017

Photo 21: Test pit at location MM-S-53 showing clean soil and vegetative duff at surface and tailings at depth.

Mammoth Mill Site, Mammoth Lakes, California

Photographed by: Caitlin Gorman (ERRG, Inc.) Date: October 11, 2017

Photo 22: Typical sample collection for laboratory analysis using disposable scoop and glass jar at location MM-S-40.

Mammoth Mill Site, Mammoth Lakes, California

Photographed by: Mari Fromstein (ERRG, Inc.) Date: October 9, 2017

Photo 23: Typical subsurface sampling using hand auger at location MM-S-53.
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Mari Fromstein (ERRG, Inc.) Date: October 11, 2017

Photo 24: Typical subsurface sampling using shovel at MM-S-105
Mammoth Mill Site, Mammoth Lakes, California
Photographed by: Mari Fromstein (ERRG, Inc.) Date: October 13, 2017

Photo 25: Typical in-situ XRF field screening from subsurface at location MM-S-105.

Mammoth Mill Site, Mammoth Lakes, California

Photographed by: Mari Fromstein (ERRG, Inc.) Date: October 13, 2017

Photo 26: Closeup of typical in-situ XRF field screening from subsurface at MM-S-105.

Mammoth Mill Site, Mammoth Lakes, California

Photographed by: Mari Fromstein (ERRG, Inc.) Date: October 13, 2017

Photo 27: Test pit at location MM-S-108 along floodplain of creek. Soil does not contain visible tailings, mercury results were below criteria, but elevated arsenic was detected in XRF and laboratory testing (soil is similar to soil at XRF-32 on east side of creek).

Mammoth Mill Site, Mammoth Lakes, California

Photographed by: Mari Fromstein (ERRG, Inc.) Date: October 13, 2017

Photo 28: Closeup of soil at location MM-S-108 along floodplain of creek. Soil does not contain visible tailings, mercury results were below criteria, but elevated arsenic was detected in XRF and laboratory testing (soil is similar to soil at XRF-32 on east side of creek).

Mammoth Mill Site, Mammoth Lakes, California

Photographed by: Mari Fromstein (ERRG, Inc.) Date: October 13, 2017

Enclosure 4. 2017 Field Logs

DAILY FIELD ACTIVITY LOG

Prepared by:	C GORMAN / M FROMSTEIN	Client:	USFS
Day:	MONDAY	Date:	10-9-17
Project Name:	MAMMOTH	Project No.:	2017-0115
Weather:	SUNNY, COOL	Page:	1 of 3
Site Vistors:	N/A		

Description of Field Activities:

1200 ERRG arrive on site.

1215 Safety tailgate and AHA review
Begin walking site. Several pin flags are left in their locations from previous sampling events.

1220 N of grid taking XRF readings
① As: 25 ± 12 ppm ② As: below detection limit ~15
Hg: 62 ± 11 ppm ③ Hg: below DL of 21.9

1229 XRF reading at MM-S-32
As: <20.6
Hg: 151 ± 16
6/3/2015 : ~~[illegible]~~ MF As: 10 ~~[illegible]~~ MF ; Hg: ~~[illegible]~~ MF 140 (PREV RESULT)

MM-S-33:
6/3/2015. As: 8.4 Hg. 14 (lab result)
1251 As: 21 ± 11 Hg: ~~<10 MF~~ 12.2

MM-S-30
6/3/2015: As: 39 Hg: 120 (lab result)
1253 As: <24.4 Hg: 63 ± 11
1314 ~~[illegible]~~ XRF reading ~~[illegible]~~ in grid cell north of MM-S-32
As: 13.9 Hg: 12.8

Signed: Mari Fromstein Date: 10/11/2017

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by: M Fromstein / C Gorman
Client: USFS
Day: Monday
Date: 10/9/2017
Project Name: Mammoth Mill
Project No.: 20170115
Weather: Sunny, cool
Page: 2 of 3
Site Vistors: Man with 3 dogs

Description of Field Activities:

Remember to collect sample N of grid

1405 XRF at MM-S-42-ØØ As: 21, Hg: 19. Collected sample.

1413 MM-S-43-ØØ. XRF: As 25±15, Hg: 35±12.
Collected sample.

1421 MM-S-44. Collected sample.
XRF As<16.1; Hg: 21±9

1428 MM-S-45-ØØ Collected sample. XRF As: 0±10; Hg: 5±10
Will not collect sample at depth.

1437 XRF: As: <13.4; Hg <13.3 at MM-S-31

1440 Collected MM-S-46-ØØ. XRF: As 24±14, Hg 48±11

1447 Collected MM-S-47-ØØ XRF: As <17.3, Hg <14.0

1459 Collected MM-S-48-ØØ XRF: As <14.1, Hg <12.9

1505 Collected MM-S-49-ØØ XRF: As <13.2, Hg <10.3

1515 Collected MM-S-50-ØØ XRF: As <16.7, Hg <14.2
Man with 3 Australian Shepherds walked through and asked about the removal action and truck access to the site. ERRG responded that we were just conducting a site survey for the forest service. No additional information was provided by ERRG.

1523 Collected MM-S-51-ØØ. XRF As 14±9, Hg: <10.7

1547 Collected MM-S-52-ØØ. XRF As: <14.2, Hg <12.2

1556 Collected MM-S-53-ØØ. XRF As: <17.7 Hg: <12.3
Note: Cleared 3-6" of soil to collect surface sample.

1605 Collected MM-S-54-ØØ. XRF As: <15.2, Hg: <13.4

Signed: Mari Fromstein
Date: 10/11/17

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by: M Fromstein / C Gorman
Client: USFS
Day: Monday
Date: 10/9/2017
Project Name: Mammoth Mill
Project No.: 20170115
Weather: Sunny, Cold
Page: 3 of 3
Site Vistors: N/A

Description of Field Activities:

1611 Collected sample MM-S-55-ØØ.
XRF: As <14.1 Hg <10.9
* 1618 Collected MM-S-56-ØØ. XRF: As <23.8, Hg 189 ± 21
1625 Collected MM-S-57-ØØ. XRF: As <15.2, Hg <12.5
1630 Collected MM-S-58-ØØ. XRF: As <15.8, Hg <12.2
1636 Collected MM-S-59-ØØ. XRF: As <32.6, Hg <12.9
* 1645 Collected MM-S-6Ø-ØØ. XRF: ~~As 31±18, Hg 8±8~~ MF
~~Collected MM-S-61-ØØ. XRF: As , Hg~~ MF
May need a sample one grid east of S-6Ø.
Nail found in vicinity of S-6Ø location after XRF reading was recorded. Area was re-screened after nail was removed.
As. <24.8 Hg <12.6
1655 Due to lower result, MF additional grid location may not be required.
Collected MM-S-61-ØØ. XRF: As <13.0, Hg <11.1
1700 Took pictures of bricks near Cabin 8.
1706 Collected MM-S-62-ØØ. XRF: As <17.3, Hg <14.0
1716 Collected MM-S-63-ØØ. XRF: As <39.1, Hg <14.9
1724 Collected MM-S-64-ØØ. XRF: As <18.7, Hg <13.5
1730 Collected MM-S-65-ØØ. XRF: As <16.5, Hg <14.1
1738 Collected MM-S-66-ØØ. XRF: As <14.6, Hg <13.8
Note: GPS battery dying during collection of this point.
1745 Demob. left site.
End of day.

Signed: Mara Fromstein Date: 10/11/17

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by: M. Fromstein / C. Gorman
Client: USFS
Day: Tuesday
Date: 10/10/2017
Project Name: Mammoth Mill
Project No.: 20170115
Weather: cold, sunny
Page: 1 of 5
Site Vistors: N/A

Description of Field Activities:

0730 ERRG arrives at site.
0738 Safety tailgate. Reviewed WP and AHAs, discussed activities for the day.
0811 Collected MM-S-67-ØØ. XRF: As <15, Hg <12.7
0819 Collected MM-S-68-ØØ. XRF: As <18.9, Hg <12.0
0827 Collected MM-S-69-ØØ. XRF: As <20.3, Hg <14.8
Samples S-68 and S-69 were not initially expected to be collected, but a decision was made in the field to sample these grid locations (were assumed to exceed criteria in previous investigations.
0834 Collected MM-S-7Ø-ØØ. XRF: As: 24±11, Hg <12
Metal mesh (rusted) is broken and scattered in the general area of sample MM-S-7Ø.
Made decision to sample at location S-7Ø in the field; was not initially planned.
0846 Collected MM-S-71-ØØ. XRF: As <15.9, Hg 15±10
0854 Collected MM-S-72-ØØ. XRF: As <22.8 Hg <27
Note: Undisturbed material not available within relevant grid cell; sample collected next to roadway. Approx. 40% of material in sample area is gravel road material.
0914 Collected MM-S-73-ØØ. XRF: As <12.8, Hg <9.5
0919 Collected MM-S-74-ØØ. XRF: As <16.3, Hg <13.7
0925 Collected MM-S-75-ØØ. XRF: As 22±14, Hg
Soil looks like floodplain/creek bank deposits.

Signed: Marc Fromstein
Date: 10/12/17

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by:	M Fromstein / C Gorman	Client:	USFS
Day:	Tuesday	Date:	10/10/17
Project Name:	Mammoth Mill	Project No.:	20150115
Weather:	cold, sunny	Page:	2 of 5
Site Vistors:	N/A		

Description of Field Activities:

0932 Collected MM-S-76-ØØ. XRF: As <14.9, Hg <11.1
0938 Collected MM-S-77-ØØ. XRF: As <11.3, Hg <8.8
0950 Collected MM-S-78-ØØ. XRF. As <12.3, Hg <13.5
0957 Collected MM-S-79-ØØ. XRF: As <11.8, Hg: <10.0
Sample was added in the field, not initially going to be sampled
1007 Collected MM-S-80-ØØ. XRF: As 22±15 Hg: <12.3
Will be hold, since not on original list.
1019 Collected MM-S-81-ØØ. XRF: As 29±12, Hg: <11.3
1027 Collected MM-S-82-ØØ. XRF: As 18±11, Hg <14.7
~~Hold sample~~ MF
1034 Collected MM-S-83-ØØ. XRF: As <20.1, Hg <18.1
Hold sample.
1041 Collected MM-S-84-ØØ. XRF: As <15.4, Hg <10.4
Tin cans ~~[illegible]~~ (rusted) scattered around location S-84.
1052 Collected MM-S-85-ØØ. XRF: As <22, Hg <11.9
1058 Collected MM-S-86-ØØ. XRF: As 35±15, Hg 12±10
1125 Collected MM-S-87-ØØ. XRF: As <20.9, Hg 22±11
Will collect sample at depth.
1134 Collected MM-~~1~~S-88-ØØ. XRF: As <18.4, Hg 12±10
1142 Collected MM-S-89-ØØ. HOLD.
Note: XRF result is from "W of 40" XRF reading from 1019. As <10.0, Hg <9.0.
1151 Collected MM-S-90-ØØ. XRF: As <14.8, Hg <14.6
Put on laboratory hold.

Signed: Mary Fromstein Date: 10/12/17

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by: M Fromstein / C Gorman
Day: Tuesday
Project Name: Mammoth Mill
Weather: cold, sunny
Site Vistors: N/A

Client: USFS
Date: MF 10/10/2017
Project No.: 20170115
Page: 3 of 5

Description of Field Activities:

1155 Collected MM-S-91-ØØ. Use 10/9 XRF reading "E of 410" for sample XRF surface data. As <17.6, Hg <13.0 Hold sample.

1203 Collected MM-S-92-ØØ. XRF: As 47±21, Hg 116±15 Area in which sample was collected had soil that looked similar to mine tailings. Medium to fine sand, light yellow-brown.

1213 Collected MM-S-93-ØØ. XRF: As <25.1 Hg 63±13 Took secondary XRF reading. As 30±17, Hg 71±13 Took photos of bricks and handprints on unnamed cabin (north of #7, east of MM-S-93-ØØ, with carved wooden bear in front)

1227 Collected MM-S-94-ØØ. XRF: As <18.6, Hg 20±10 Collected MM-S-95-ØØ. XRF: As <14.8 Hg <13.9 HOLD Cabin 5 (Nunez) not located properly on map.

1242 Collected MM-S-96-ØØ. XRF: As <18.6, Hg 16±9

1249 Collected MM-S-97-ØØ. XRF: As <26.4, Hg 44±11

1255 Collected MM-S-98-ØØ. XRF: As <13.3, Hg <15.3

1304 Collected MM-S-99-ØØ XRF: As <20.3 Hg 32±10

1320 Collected MM-S-100-ØØ. XRF: As <17.1, Hg <16.4 (MM-S-100-ØØ)

1321 XRF reading at XRF-1: As <19.4, Hg 30±12

1422 Collected MM-S-101-ØØ, XRF: As 16±9 Hg <10.9

1437 Collected MM-S-102-ØØ. XRF As <14.1, Hg <12.7 HOLD about 20% coarse gravel in soil in the vicinity

1443 Collected MM-S-103-ØØ. XRF. As <16.6, Hg <13.5 HOLD

1503 collect MM-S-81-0.5 XRF As <15.5, Hg <15.8 (HOLD)

Signed: Mari Fromstein

Date: 10/12/17

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by: M Fromstein / C Gorman
Client: USFS
Day: Tuesday
Date: 10/10/17
Project Name: Mammoth Mill
Project No.: 20170115
Weather: cold, sunny
Page: 4 of 5
Site Vistors: N/A

Description of Field Activities:

1515 Collect MM-S-82-0.5, XRF: As <14.5, Hg <15.1
1522 Collect MM-S-83-0.5, XRF: As <17.9, Hg <23.4 HOLD
Soil in this vicinity is ~30% gravel
1528 Collect MM-S-21-0.5. XRF: As <11.6, Hg <11.6
Hold Sample.
1536 Collect MM-S-84-0.5. XRF: As <15.1, Hg <24.3. HOLD.
1543 Collect MM-S-86-0.5. XRF: As <25.7, Hg <15.7
1550 Collect MM-S-85-0.5. XRF: As <15.2, Hg <11.6 HOLD
1600 Collect MM-S-22-0.5. XRF: As <15.5 Hg <11.2. HOLD
1608 Collect MM-S-75-0.5. XRF: As <18.7, Hg <24.0 HOLD
1616 Collect MM-S-72-0.5. XRF: As <16.0, Hg <13.2 HOLD
1625 Collect MM-S-71-0.5. XRF: As <12.8, Hg <12.2
1630 Collect MM-S-70-1.0. XRF: As <17.3 Hg <15.1
~~At 8in bgs As~~ MF At 6in bgs: As 22, Hg <15
1643 Collect MM-S-69-0.5. XRF: As <16.9, Hg <14.2 HOLD.
1654 Collect MM-S-64-0.5 XRF: As <15.7, Hg <14.4 HOLD
1709 Collect MM-S-28-0.5 XRF: As <18.0 Hg <17.9
1718 Collect MM-S-87-1.0 XRF: As , Hg
At 6in bgs: As <15.9, Hg 15±9
At 1 ft bgs: As <19.2 Hg <19.6
1730 Collect MM-S-88-0.5. XRF: As <12.8, Hg <12.2 HOLD
1733 Collect MM-S-63-0.5 XRF: As <31.4 Hg <15.3 HOLD
1745 Collect MM-S-55-1.0 XRF: As Hg HOLD
At 6in bgs: As: <15.3 Hg: 25±9
At 1ft bgs: As: <19.6 Hg: <24.6

Signed: Mary Fromstein
Date: 10/12/17

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by: M Fromstein / C Gorman
Client: USFS
Day: Tuesday
Date: 10/10/17
Project Name: Mammoth Mill
Project No.: 20170115
Weather: Cold, sunny
Page: 5 of 5
Site Vistors: N/A

Description of Field Activities:

1754 Collect MM-S-56-1.0 XRF. As, Hg
at 6 in bgs: As <16.8 Hg 34±13
at 1 ft bgs As <16.5 Hg <18.6
1810 Collect MM-S-57-1.0 XRF: As Hg HOLD
at 6 in bgs As <20.8 Hg 26±13
at 1 ft bgs As <25.4 Hg <31.9
1822 Collect MM-S-51-0.5 XRF: As <13.8 Hg <15.8 HOLD
1840 Demob. left site. End of day.

Other notes:
General range of surface sample (00) was collected between 0-3 in bgs
All XRF ~~samples~~ readings were collected by holding the XRF for 60 seconds.

Signed: Mari Fromstein
Date: 10/12/17

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by: M Fromstein / C Cormall
Client: USFS
Day: Wednesday
Date: 10/11/2017
Project Name: Mammoth Mill
Project No.: 20170116
Weather: cold, clear
Page: 1 of 4
Site Vistors:

Description of Field Activities:

0715 ERRG arrived on site.
0720 Safety tailgate.
0746 Collect MM-S-24-0.5. XRF: As <16.3, Hg <19.1
0802 Collect MM-S-12-0.5. XRF: As <13.4, Hg <14.4
0815 Collect MM-S-29-0.5. XRF: As <11.5, Hg <10.4 HOLD
0828 Collect MM-S-15-0.5. XRF: As <17.0 Hg <18.4 HOLD
Note: some charcoal and/or burnt wood observed within bottom of 6in sample pit.
0843 Collect MM-S-35-0.5. XRF: As <16.9, Hg <17.6 HOLD
Sample collected in middle of former road, was very compacted beneath ground surface.
0900 Collect MM-S-34-1.0. XRF: As Hg HOLD
At 6 in bgs As: <20.4, Hg 37±16
At 1 ft bgs As: <13.8 Hg <12.8
0918 Collect MM-S-31-0.5. XRF: As <13.8 Hg <12.4 HOLD
0938 Collect MM-S-53-2.0. XRF: As Hg HOLD
At 6in bgs As: <13.7 Hg 12±7
At 1ft bgs As: 21±12 Hg: 45±10
At 1.5ft bgs As: 20±13 Hg: 98±17
Soil increasingly finer and more yellow (more tailings-like) with depth.
At 2 ft bgs As: <24.0 Hg: 105±16
TOOK photos of bricks behind cabin 4.

1113 ~~[illegible]~~ XRF reading at XRF-2.
As < 12.2 Hg < 10.9 W of gully, level with S-90.

Signed: Mari Fromstein Date: 10/12/17

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by: M Fromstein / C Gorman
Client: USFS
Day: Wednesday
Date: 10/11/17
Project Name: Mammoth Mill
Project No.: 20170115
Weather: Clear, cool
Page: 2 of 4
Site Vistors:

Description of Field Activities:

1121 XRF reading at XRF-3. As <12.9, Hg <12.8
1129 XRF reading at XRF-4. As <14.5 Hg <13.8
1131 XRF reading at XRF-5. As <18.1, Hg <16.9
1132 Took photos looking down gully.
1142 Collected MM-S-101-0.5. XRF: As <14.4 Hg <13.2 HOLD
1149 Collected MM-S-45-0.5. XRF. As <14.3 Hg <13.7 HOLD
1158 Collected MM-S-32-0.5. XRF: As <19.6 Hg <24.8
1212 Collected MM-S-30-1.5. ~~XRF: As~~ ~~Hg~~ NF
At 6 in bgs: As: <26.3 Hg: 51±15
At 1 ft bgs: As <17.1 Hg: 25±12
At 1.5 ft bgs: As: <16.8 Hg <20.8
Collected MM-S-46-2.0. XRF
At 6 in bgs: As 29±13 Hg 77±12
At 1 ft bgs. As Hg
At 1.5 ft bgs: As <18.5 Hg 22±12
At 2 ft bgs: As <20.4 Hg 23±10
1307 XRF reading at XRF-6. As: 14.1 Hg: 13.6
1315 XRF reading at XRF-7. As: <15.4 Hg: 30±10
1319 XRF reading at XRF-8. As: <14.8 Hg: <13.7
1330 XRF reading at XRF-9. As <15.1 Hg: <13.6
1335 XRF reading at XRF-10. As: 38±20 Hg: 74±14
1322 Took general site photos from XRF-8 location.
1340 XRF reading at XRF-11 (behind cabin 10)
As: 57±23 Hg: 181±18
1341 XRF reading at XRF-12. As <29.3, Hg 81±14
1351 XRF reading at XRF-13 (S of tank). As <10.8, Hg <10.3

Signed: Mau Fromstein
Date: 10/12/17

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by: M Fromstein / C Gorman
Client: USFS
Day: Wednesday
Date: 10/11/17
Project Name: Mammoth Mill
Project No.: 20170115
Weather:
Page: 3 of 4
Site Vistors:

Description of Field Activities:

1350 XRF reading at XRF-14. As: 107 ± 33 Hg 227 ± 26
1400 XRF reading at XRF-15 (near tank) As: <17.6, Hg <20.6
1405 XRF reading at XRF-16. As <19.9, Hg 82 ± 16
1410 XRF reading at XRF-17 (near road). As 59 ± 22 Hg 164 ± 18
Crossed road to continue following tailings hits on XRF.
1415 XRF reading at XRF-18 (before drainage). As <20.9, Hg 33 ± 13
1420 XRF reading at XRF-19 (after drainage). As 18 ± 12 Hg <16.7
1430 XRF reading at XRF-20. As 29 ± 15 Hg 24 ± 13
1433 XRF reading at XRF-21. As <16.0 Hg <13.1
1436 XRF reading at XRF-22. As <18.9 Hg 49 ± 12
Man in white Mazda pickup truck drove down site main road and back. Truck labeled "Bouchers home services"
1440 XRF reading at XRF-23. As <24.0, Hg 110 ± 14
1443 XRF reading at XRF-24. ~~As~~ (across gravel road) As 23 ± 13, Hg <16.9
1445 XRF reading at XRF-25 (in front yard of cabin 3) As <15.6, Hg 17 ± 9
1450 XRF reading at XRF-26. (between cabins 3 + 4) As 38 ± 19, Hg 71 ± 14
1453 XRF reading at XRF-27. As 46 ± 24, Hg 74 ± 15
1454 XRF reading @ XRF-28 As <17.4, Hg <16.3
1456 XRF reading @ XRF-29 As 25 ± 16 Hg 39 ± 15
1500 XRF reading @ XRF-30 As 17 ± 11, Hg 29 ± 12
1502 XRF reading @ XRF-31 As <13.9 Hg <13.2
took photos near MM-S-99 and back of cabin 4

Signed: Mari Fromstein
Date: 10/12/17

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by:	M Fromstein / C Gorman	Client:	USFS
Day:	Wednesday	Date:	10/11/2017
Project Name:	Mammoth Mill	Project No.:	20170115
Weather:	Cool, clear	Page:	4 of 4
Site Vistors:			

Description of Field Activities:

1521 Collect MM-S-44-2.0

6 in bgs As: 23±15, Hg: 36±14

1 ft bgs: As: <15.8, Hg 23±10

1.5 ft bgs: As: <19.4, Hg 22±14

2 ft bgs: As: <17.6, Hg < 18.5

Found assortment of old glass and metal containers in sample area. Took photos and left containers undisturbed in hole.

1549 Collect MM-S-89-0.6. XRF: As <10.0, Hg <9.8 HOLD

Took XRF reading to confirm ND values. Values were confirmed at ND values, so sample was collected at 6in (0.5ft) bgs.

1556 - Overview photos walking up main rd to Ivanhoe (cabin 20) then back down behind cabins - showing proximity to waste piles

then over to spur road @ cabin 12

note tailings in driveway of cabin 13

1611 - photos on backyard of cabin 6 (tailings at surface) tailings in this area mostly beneath thin duff layer or exposed.

1615 - GPS roads to cabins

1630 - demob site. End of day.

Signed: Maw Fromstein Date: 10/12/17

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by:	C Gorman / M Fromstein	Client:	USFS
Day:	Friday	Date:	10/13/17
Project Name:	Mammoth Mill	Project No.:	20170115
Weather:	Warm, Clear	Page:	1 of 3
Site Vistors:	N/A		

Description of Field Activities:

0700 - Phone call w/ Dennis Geiser to discuss minimal delineation sampling for N. tailings area.
Plan to collect approximately 5 samples at locations with elevated Hg.
XRF 14 (w/ Hg = 227), XRF 23 (w/ Hg = 110)
XRF 17 (w/ Hg = 164), and either Cabin 10 or Cabin 6 areas
Also auger to depth at locations near Cabins 12/13 where tailings + high Hg/As were encountered at 2.0 ft bgs. Collect one sample if beneath tailings layer and clean on XRF.

0900 Safety tailgate.

0918 MF Begin using hand auger to collect samples at MM-S-53. Tailings observed after about 1ft. Hit root(?) at ~3.5ft bgs (still in tailings zone). Refusal.

0926 Step out 2ft SW, hand auger. Tailings at 1ft bgs. Refusal at ~3.5ft bgs.

0935 Step out 2ft E. Begin hand augering. Tailings observed at 1.5ft bgs. Refusal at 3ft bgs. Hit refusal 3 times; ~~moving to~~ ~~next location~~. MF

0944 Last step-out for S-53. Step out approximately 6ft from original sample location. Tailings observed at 1ft bgs. Much lighter in color than other observed tailings nearby.
XRF: At 2.5ft bgs: As <12.6, Hg <11.4

Signed: Maw Fromstein Date: 10/13/17

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by:	M Fromstein / C Gorman	Client:	USFS
Day:	Friday	Date:	10/13/17
Project Name:	Mammoth Mill	Project No.:	20170115
Weather:	warm, clear	Page:	2 of 3
Site Vistors:	N/A		

Description of Field Activities:

Tailings gradually yellower with depth, change begins between 2.5 ft bgs and 3 ft bgs.

0954 XRF reading at ~4 ft bgs. As: <12.6 Hg: <11.8

0958 Refusal at 4 ft bgs. 2-3 in gravel at 4 ft.

1004 Move to MM-S-46. Begin hand auger. Increasing gravel with depth

1017 XRF reading at 3.8 ft bgs. As: 13±8, Hg <11.8

1018 Collect sample MM-S-46-3.8 at 3.8 ft bgs. Hit refusal at 3.9 ft.

1035 Move to XRF-14. Shovel top 1 ft of soil, tailings observed at 3 in bgs.

1051 XRF reading at 2 ft bgs at XRF-14. As <27.3 Hg 47±24. Continue digging.

1057 XRF reading at 2 ft bgs. As <16.2 Hg 43±12 Begin hand augering in shoveled hole.

1102 XRF reading at 3 ft bgs. As <13.0 Hg <11.2 Soil/tailings: 50% coarse sand, 20% gravel, ~30% fine sand and tailings.

1106 Collect sample MM-S-105-3.5 at 3.5 ft bgs. 105

1105 Collect sample MM-S-105-00 at surface. 105

1120 At location XRF-17, shovel to 1 ft bgs.

1124 XRF reading at 1 ft bgs. As 29±15 Hg 39±12 Continue digging with shovel. Encounter rocks ~5-6" across at 1.2 ft bgs.

1130 XRF reading at 2 ft bgs. As < 16.5 Hg < 19.4 Note high amount of large rocks surrounding XRF location.

Signed: Mara Fromstein Date: 10/13/17

ERRG

DAILY FIELD ACTIVITY LOG

Prepared by:	C Gorman / M Fromstein	Client:	USFS
Day:	Friday	Date:	10/13/17
Project Name:	Mammoth Mill	Project No.:	20170115
Weather:	warm, clear	Page:	3 of 3
Site Vistors:	N/A		

Description of Field Activities:

1134 Collect MM-S-106-00
1137 Collect MM-S-106-2.0.
1145 Move to XRF-23, begin digging with shovel.
1155 XRF reading at 1ft bgs. As <15.1 Hg <13.4
1158 Collect MM-S-107-00.
1200 Collect MM-S-107-1.0.
1208 Step out across road.
Water flowing in creek.
1211 Step out across creek, took XRF reading at XRF-32.
As 77 ±14, Hg <14.1
Possible this is unrelated to mine tailings, color of soil is dark gray-brown. We are on E side of creek slope is up to the SE from here. No sample collected
1218 - XRF-33 on W side of creek
As = 19 ± 11 Hg < 11.8 (on surface)
1222 XRF reading at 1ft bgs. As 36 ±10 Hg <11.6
1227 Collect MM-S-108-00 at XRF-33
1230 Collect MM-S-108-1.0. HOLD.
Elevated Arsenic is inconsistent with arsenic levels at tailings area, potential unrelated upstream source. Could have been influenced by adjacent creek.
Soil color (dark brown) does not match tailings.
Dark brown, clayey silt/silty clay, no sand, does not appear to contain tailings.
1301 Demob, left site.
End of day.

Signed: Mark Fromstein Date: 10/13/17

ERRG

Enclosure 5. 2017 Laboratory Analytical Data

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-82620-1
Client Project/Site: Mammoth Mill

For:
Engineering Remediation Resources Group.
4585 Pacheco Boulevard
Suite 200
Martinez, California 94553-2233

Attn: Ms. Caitlin Gorman

Authorized for release by:
10/24/2017 6:55:55 PM

Micah Smith, Project Manager II
(916)374-4302
micah.smith@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.testamericainc.com

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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Definitions/Glossary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Job ID: 720-82620-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-82620-1

Comments
No additional comments.

Receipt
The samples were received on 10/17/2017 5:32 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.4º C, 1.0º C, 1.1º C, 1.1º C and 1.7º C.

Receipt Exceptions
The time on sample MM-S-44-2.0 does not match COC. The COC shows time as 1521 and the jar shows 1321. The sample was logged in with the time listed on the COC.

Metals
Method(s) 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-232542 and analytical batch 720-232690 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 7471A: Due to the high concentration of Hg, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 720-232653 and analytical batch 720-232723 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 7471A: The following samples was diluted due to the nature of the sample matrix: (720-82620-A-73-E MS) and (720-82620-A-73-F MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Detection Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-44-2.0 — Lab Sample ID: 720-82620-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.3		3.3	0.28	mg/Kg	4		6010B	Total/NA
Mercury	21		1.7	0.25	mg/Kg	100		7471A	Total/NA

Client Sample ID: MM-S-46-2.0 — Lab Sample ID: 720-82620-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.9		3.7	0.32	mg/Kg	4		6010B	Total/NA
Mercury	2.7		0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-51-00 — Lab Sample ID: 720-82620-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		2.9	0.24	mg/Kg	4		6010B	Total/NA
Mercury	5.0		0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-50-00 — Lab Sample ID: 720-82620-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		2.8	0.24	mg/Kg	4		6010B	Total/NA
Mercury	1.4		0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-49-00 — Lab Sample ID: 720-82620-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		3.6	0.31	mg/Kg	4		6010B	Total/NA
Mercury	0.83		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-48-00 — Lab Sample ID: 720-82620-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.1		2.3	0.19	mg/Kg	4		6010B	Total/NA
Mercury	0.93		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-47-00 — Lab Sample ID: 720-82620-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		3.2	0.27	mg/Kg	4		6010B	Total/NA
Mercury	0.92		0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-52-00 — Lab Sample ID: 720-82620-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.0		3.3	0.28	mg/Kg	4		6010B	Total/NA
Mercury	4.3		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-53-00 — Lab Sample ID: 720-82620-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2		3.9	0.33	mg/Kg	4		6010B	Total/NA
Mercury	7.4		0.16	0.023	mg/Kg	10		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-54-00 — Lab Sample ID: 720-82620-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.4		2.5	0.21	mg/Kg	4		6010B	Total/NA
Mercury	1.2		0.17	0.025	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-55-00 — Lab Sample ID: 720-82620-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.3		3.8	0.32	mg/Kg	4		6010B	Total/NA
Mercury	4.6		0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-56-1.0 — Lab Sample ID: 720-82620-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		2.4	0.21	mg/Kg	4		6010B	Total/NA
Mercury	14		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-58-00 — Lab Sample ID: 720-82620-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.4		3.7	0.31	mg/Kg	4		6010B	Total/NA
Mercury	3.8		0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-59-00 — Lab Sample ID: 720-82620-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.1		2.7	0.23	mg/Kg	4		6010B	Total/NA
Mercury	2.8		0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-60-00 — Lab Sample ID: 720-82620-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.8	0.33	mg/Kg	4		6010B	Total/NA
Mercury	8.8		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-61-00 — Lab Sample ID: 720-82620-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.7		2.4	0.20	mg/Kg	4		6010B	Total/NA
Mercury	0.95		0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-62-00 — Lab Sample ID: 720-82620-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		2.8	0.24	mg/Kg	4		6010B	Total/NA
Mercury	3.8		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-63-00 — Lab Sample ID: 720-82620-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.5		3.1	0.27	mg/Kg	4		6010B	Total/NA
Mercury	2.9	F1 B	0.16	0.023	mg/Kg	10		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-64-00 — Lab Sample ID: 720-82620-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.8		2.9	0.25	mg/Kg	4		6010B	Total/NA
Mercury	1.4	B	0.17	0.025	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-65-00 — Lab Sample ID: 720-82620-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.1		3.2	0.27	mg/Kg	4		6010B	Total/NA
Mercury	3.6	B	0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-66-00 — Lab Sample ID: 720-82620-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.0		3.3	0.28	mg/Kg	4		6010B	Total/NA
Mercury	0.95	B	0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-67-00 — Lab Sample ID: 720-82620-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.1	0.26	mg/Kg	4		6010B	Total/NA
Mercury	0.57	B	0.17	0.025	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-68-00 — Lab Sample ID: 720-82620-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.8		3.6	0.31	mg/Kg	4		6010B	Total/NA
Mercury	4.3	B	0.15	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-69-00 — Lab Sample ID: 720-82620-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.4		3.1	0.27	mg/Kg	4		6010B	Total/NA
Mercury	5.6	B	0.17	0.025	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-70-00 — Lab Sample ID: 720-82620-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10		3.4	0.29	mg/Kg	4		6010B	Total/NA
Mercury	7.9	B	0.14	0.021	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-70-1.0 — Lab Sample ID: 720-82620-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		3.9	0.33	mg/Kg	4		6010B	Total/NA
Mercury	11	B	0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-71-00 — Lab Sample ID: 720-82620-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.8		2.9	0.25	mg/Kg	4		6010B	Total/NA
Mercury	1.5	B	0.15	0.023	mg/Kg	10		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-71-0.5 — Lab Sample ID: 720-82620-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.6	J	3.6	0.31	mg/Kg	4		6010B	Total/NA
Mercury	0.42	B	0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-72-00 — Lab Sample ID: 720-82620-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.9		3.1	0.27	mg/Kg	4		6010B	Total/NA
Mercury	1.2	B	0.14	0.021	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-73-00 — Lab Sample ID: 720-82620-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		2.6	0.22	mg/Kg	4		6010B	Total/NA
Mercury	1.3	B	0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-74-00 — Lab Sample ID: 720-82620-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		3.0	0.26	mg/Kg	4		6010B	Total/NA
Mercury	0.44	B	0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-75-00 — Lab Sample ID: 720-82620-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		3.1	0.26	mg/Kg	4		6010B	Total/NA
Mercury	0.61	B	0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-76-00 — Lab Sample ID: 720-82620-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.6	0.31	mg/Kg	4		6010B	Total/NA
Mercury	0.76		0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-77-00 — Lab Sample ID: 720-82620-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.1	J	3.5	0.30	mg/Kg	4		6010B	Total/NA
Mercury	0.84		0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-78-00 — Lab Sample ID: 720-82620-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.5		2.9	0.25	mg/Kg	4		6010B	Total/NA
Mercury	1.5		0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-79-00 — Lab Sample ID: 720-82620-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.9		3.8	0.32	mg/Kg	4		6010B	Total/NA
Mercury	0.29		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-81-00 — Lab Sample ID: 720-82620-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.7		3.4	0.29	mg/Kg	4		6010B	Total/NA
Mercury	2.1		0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-82-00 — Lab Sample ID: 720-82620-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.1		2.6	0.22	mg/Kg	4		6010B	Total/NA
Mercury	0.22		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: MM-S-82-0.5 — Lab Sample ID: 720-82620-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	0.26	mg/Kg	4		6010B	Total/NA
Mercury	0.20		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: MM-S-84-00 — Lab Sample ID: 720-82620-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.1		3.1	0.27	mg/Kg	4		6010B	Total/NA
Mercury	3.0		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-85-00 — Lab Sample ID: 720-82620-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		2.8	0.24	mg/Kg	4		6010B	Total/NA
Mercury	2.8		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-86-00 — Lab Sample ID: 720-82620-52

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	34		3.3	0.28	mg/Kg	4		6010B	Total/NA
Mercury	3.6		0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-86-0.5 — Lab Sample ID: 720-82620-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.6	0.31	mg/Kg	4		6010B	Total/NA
Mercury	1.4		0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-87-00 — Lab Sample ID: 720-82620-54

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	25		3.0	0.26	mg/Kg	4		6010B	Total/NA
Mercury	49		1.5	0.22	mg/Kg	100		7471A	Total/NA

Client Sample ID: MM-S-87-1.0 — Lab Sample ID: 720-82620-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		3.2	0.27	mg/Kg	4		6010B	Total/NA
Mercury	7.3		0.16	0.023	mg/Kg	10		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-88-00 — Lab Sample ID: 720-82620-57

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.5		2.8	0.24	mg/Kg	4		6010B	Total/NA
Mercury	43		1.6	0.23	mg/Kg	100		7471A	Total/NA

Client Sample ID: MM-S-92-00 — Lab Sample ID: 720-82620-59

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	47		2.3	0.19	mg/Kg	4		6010B	Total/NA
Mercury	400	B	8.2	1.2	mg/Kg	500		7471A	Total/NA

Client Sample ID: MM-S-93-00 — Lab Sample ID: 720-82620-60

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	48		2.6	0.22	mg/Kg	4		6010B	Total/NA
Mercury	330	B	7.3	1.1	mg/Kg	500		7471A	Total/NA

Client Sample ID: MM-S-94-00 — Lab Sample ID: 720-82620-61

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.9		2.6	0.22	mg/Kg	4		6010B	Total/NA
Mercury	5.7	B	0.15	0.021	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-96-00 — Lab Sample ID: 720-82620-63

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		2.5	0.21	mg/Kg	4		6010B	Total/NA
Mercury	38	B	1.5	0.22	mg/Kg	100		7471A	Total/NA

Client Sample ID: MM-S-97-00 — Lab Sample ID: 720-82620-64

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	22		2.4	0.20	mg/Kg	4		6010B	Total/NA
Mercury	88	B	1.5	0.22	mg/Kg	100		7471A	Total/NA

Client Sample ID: MM-S-98-00 — Lab Sample ID: 720-82620-65

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		3.1	0.26	mg/Kg	4		6010B	Total/NA
Mercury	23		0.76	0.11	mg/Kg	50		7471A	Total/NA

Client Sample ID: MM-S-99-00 — Lab Sample ID: 720-82620-66

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		3.6	0.30	mg/Kg	4		6010B	Total/NA
Mercury	44		1.5	0.22	mg/Kg	100		7471A	Total/NA

Client Sample ID: MM-S-100-00 — Lab Sample ID: 720-82620-67

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.1		3.4	0.29	mg/Kg	4		6010B	Total/NA
Mercury	6.0		0.15	0.022	mg/Kg	10		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-101-00 — Lab Sample ID: 720-82620-68

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		3.5	0.30	mg/Kg	4		6010B	Total/NA
Mercury	13		0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-105-00 — Lab Sample ID: 720-82620-71

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	89		3.3	0.28	mg/Kg	4		6010B	Total/NA
Mercury	880		15	2.2	mg/Kg	1000		7471A	Total/NA

Client Sample ID: MM-S-105-3.5 — Lab Sample ID: 720-82620-72

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		2.8	0.24	mg/Kg	4		6010B	Total/NA
Mercury	1.1		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-106-00 — Lab Sample ID: 720-82620-73

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	38		3.7	0.31	mg/Kg	4		6010B	Total/NA
Mercury	410	F2	7.5	1.1	mg/Kg	500		7471A	Total/NA

Client Sample ID: MM-S-106-2.0 — Lab Sample ID: 720-82620-74

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		2.6	0.22	mg/Kg	4		6010B	Total/NA
Mercury	1.4		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-107-00 — Lab Sample ID: 720-82620-75

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		2.4	0.20	mg/Kg	4		6010B	Total/NA
Mercury	76		1.5	0.22	mg/Kg	100		7471A	Total/NA

Client Sample ID: MM-S-107-1.0 — Lab Sample ID: 720-82620-76

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.6		2.9	0.25	mg/Kg	4		6010B	Total/NA
Mercury	1.0		0.15	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-108-00 — Lab Sample ID: 720-82620-77

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	34		3.3	0.28	mg/Kg	4		6010B	Total/NA
Mercury	1.6		0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-46-3.8 — Lab Sample ID: 720-82620-78

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		3.9	0.33	mg/Kg	4		6010B	Total/NA
Mercury	0.77		0.16	0.024	mg/Kg	10		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-28-0.5 — Lab Sample ID: 720-82620-80

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2		3.8	0.32	mg/Kg	4		6010B	Total/NA
Mercury	2.0		0.14	0.021	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-40-00 — Lab Sample ID: 720-82620-81

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.3		3.3	0.28	mg/Kg	4		6010B	Total/NA
Mercury	14		0.30	0.044	mg/Kg	20		7471A	Total/NA

Client Sample ID: MM-S-41-00 — Lab Sample ID: 720-82620-82

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		2.7	0.23	mg/Kg	4		6010B	Total/NA
Mercury	13		0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-57-00 — Lab Sample ID: 720-82620-83

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		2.5	0.21	mg/Kg	4		6010B	Total/NA
Mercury	8.1		0.17	0.025	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-80-00 — Lab Sample ID: 720-82620-84

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		3.1	0.26	mg/Kg	4		6010B	Total/NA
Mercury	8.0		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-30-1.5 — Lab Sample ID: 720-82620-94

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.9		2.4	0.20	mg/Kg	4		6010B	Total/NA
Mercury	3.1		0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-32-0.5 — Lab Sample ID: 720-82620-95

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.0		2.8	0.24	mg/Kg	4		6010B	Total/NA
Mercury	95		1.6	0.23	mg/Kg	100		7471A	Total/NA

Client Sample ID: MM-S-12-0.5 — Lab Sample ID: 720-82620-101

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.8		2.4	0.20	mg/Kg	4		6010B	Total/NA
Mercury	0.79		0.14	0.021	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-24-0.5 — Lab Sample ID: 720-82620-102

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.4		2.6	0.22	mg/Kg	4		6010B	Total/NA
Mercury	2.0		0.15	0.023	mg/Kg	10		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-44-2.0

Date Collected: 10/11/17 15:21
Date Received: 10/17/17 17:32

Lab Sample ID: 720-82620-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3		3.3	0.28	mg/Kg		10/23/17 13:35	10/23/17 21:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	21		1.7	0.25	mg/Kg		10/19/17 10:05	10/19/17 14:44	100

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-46-2.0

Date Collected: 10/11/17 12:29
Date Received: 10/17/17 17:32

Lab Sample ID: 720-82620-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9		3.7	0.32	mg/Kg		10/23/17 10:33	10/23/17 20:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.7		0.16	0.024	mg/Kg		10/23/17 09:50	10/23/17 14:05	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-51-00

Date Collected: 10/09/17 15:23
Date Received: 10/17/17 17:32

Lab Sample ID: 720-82620-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		2.9	0.24	mg/Kg		10/23/17 10:33	10/23/17 20:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.0		0.15	0.022	mg/Kg		10/23/17 09:50	10/23/17 14:07	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-50-00

Date Collected: 10/09/17 15:15
Date Received: 10/17/17 17:32

Lab Sample ID: 720-82620-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		2.8	0.24	mg/Kg		10/23/17 10:33	10/23/17 20:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4		0.16	0.024	mg/Kg		10/23/17 09:50	10/23/17 13:27	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-49-00

Date Collected: 10/09/17 15:05
Date Received: 10/17/17 17:32

Lab Sample ID: 720-82620-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		3.6	0.31	mg/Kg		10/23/17 10:33	10/23/17 20:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.83		0.16	0.023	mg/Kg		10/23/17 09:50	10/23/17 13:29	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-48-00

Lab Sample ID: 720-82620-7

Date Collected: 10/09/17 14:59
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.1		2.3	0.19	mg/Kg		10/23/17 10:33	10/23/17 20:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.93		0.16	0.023	mg/Kg		10/23/17 09:50	10/23/17 13:32	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-47-00

Lab Sample ID: 720-82620-8

Date Collected: 10/09/17 14:47
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		3.2	0.27	mg/Kg		10/23/17 10:33	10/23/17 20:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.92		0.15	0.022	mg/Kg		10/23/17 09:50	10/23/17 13:34	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-52-00

Date Collected: 10/09/17 15:47
Date Received: 10/17/17 17:32

Lab Sample ID: 720-82620-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		3.3	0.28	mg/Kg		10/23/17 10:33	10/23/17 20:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.3		0.16	0.023	mg/Kg		10/23/17 09:50	10/23/17 13:36	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-53-00

Lab Sample ID: 720-82620-10

Date Collected: 10/09/17 15:56
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.2		3.9	0.33	mg/Kg		10/23/17 10:33	10/23/17 20:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	7.4		0.16	0.023	mg/Kg		10/23/17 09:50	10/23/17 13:38	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-54-00

Lab Sample ID: 720-82620-11

Date Collected: 10/09/17 16:05
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.4		2.5	0.21	mg/Kg		10/23/17 10:33	10/23/17 20:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.17	0.025	mg/Kg		10/23/17 09:50	10/23/17 13:41	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-55-00

Lab Sample ID: 720-82620-12

Date Collected: 10/09/17 16:11
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3		3.8	0.32	mg/Kg		10/23/17 10:33	10/23/17 20:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.6		0.16	0.024	mg/Kg		10/23/17 09:50	10/23/17 13:43	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-56-1.0

Lab Sample ID: 720-82620-13

Date Collected: 10/10/17 17:54
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		2.4	0.21	mg/Kg		10/23/17 10:33	10/23/17 21:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14		0.16	0.023	mg/Kg		10/23/17 09:50	10/23/17 13:45	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-58-00

Lab Sample ID: 720-82620-14

Date Collected: 10/09/17 16:30
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.4		3.7	0.31	mg/Kg		10/23/17 10:33	10/23/17 21:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.8		0.16	0.024	mg/Kg		10/23/17 09:50	10/23/17 13:48	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-59-00

Date Collected: 10/09/17 16:36
Date Received: 10/17/17 17:32

Lab Sample ID: 720-82620-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.1		2.7	0.23	mg/Kg		10/23/17 10:33	10/23/17 21:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.8		0.16	0.024	mg/Kg		10/23/17 09:50	10/23/17 13:55	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-60-00

Lab Sample ID: 720-82620-16

Date Collected: 10/09/17 16:45
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.8	0.33	mg/Kg		10/23/17 10:33	10/23/17 21:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	8.8		0.16	0.023	mg/Kg		10/23/17 09:50	10/23/17 13:57	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-61-00

Lab Sample ID: 720-82620-17

Date Collected: 10/09/17 16:55
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.7		2.4	0.20	mg/Kg		10/23/17 10:33	10/23/17 21:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.95		0.15	0.022	mg/Kg		10/23/17 09:50	10/23/17 14:00	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-62-00

Lab Sample ID: 720-82620-18

Date Collected: 10/09/17 17:06
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		2.8	0.24	mg/Kg		10/23/17 10:33	10/23/17 21:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.8		0.16	0.023	mg/Kg		10/23/17 09:50	10/23/17 14:02	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-63-00

Lab Sample ID: 720-82620-19

Date Collected: 10/09/17 17:16
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		3.1	0.27	mg/Kg		10/23/17 13:35	10/23/17 21:52	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.9	F1 B	0.16	0.023	mg/Kg		10/24/17 08:46	10/24/17 12:34	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-64-00

Lab Sample ID: 720-82620-21

Date Collected: 10/09/17 17:24
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		2.9	0.25	mg/Kg		10/23/17 13:35	10/23/17 21:57	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4	B	0.17	0.025	mg/Kg		10/24/17 08:46	10/24/17 13:30	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-65-00

Lab Sample ID: 720-82620-23

Date Collected: 10/09/17 17:30
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.1		3.2	0.27	mg/Kg		10/23/17 13:35	10/23/17 22:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.6	B	0.16	0.024	mg/Kg		10/24/17 08:46	10/24/17 13:33	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-66-00

Lab Sample ID: 720-82620-24

Date Collected: 10/09/17 17:38
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		3.3	0.28	mg/Kg		10/23/17 13:35	10/23/17 22:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.95	B	0.16	0.023	mg/Kg		10/24/17 08:46	10/24/17 13:35	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-67-00

Lab Sample ID: 720-82620-25

Date Collected: 10/10/17 08:11
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.1	0.26	mg/Kg		10/23/17 13:35	10/23/17 22:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.57	B	0.17	0.025	mg/Kg		10/24/17 08:46	10/24/17 12:53	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-68-00

Lab Sample ID: 720-82620-26

Date Collected: 10/10/17 08:19
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.8		3.6	0.31	mg/Kg		10/23/17 13:35	10/23/17 22:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.3	B	0.15	0.023	mg/Kg		10/24/17 08:46	10/24/17 12:55	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-69-00

Lab Sample ID: 720-82620-27

Date Collected: 10/10/17 08:27
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.4		3.1	0.27	mg/Kg		10/23/17 13:35	10/23/17 22:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.6	B	0.17	0.025	mg/Kg		10/24/17 08:46	10/24/17 12:58	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-70-00

Lab Sample ID: 720-82620-29

Date Collected: 10/10/17 08:34
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		3.4	0.29	mg/Kg		10/23/17 13:35	10/23/17 22:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	7.9	B	0.14	0.021	mg/Kg		10/24/17 08:46	10/24/17 13:02	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-70-1.0

Lab Sample ID: 720-82620-30

Date Collected: 10/10/17 16:30
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		3.9	0.33	mg/Kg		10/23/17 13:35	10/23/17 22:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	11	B	0.15	0.022	mg/Kg		10/24/17 08:46	10/24/17 13:05	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-71-00

Lab Sample ID: 720-82620-31

Date Collected: 10/10/17 08:46
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		2.9	0.25	mg/Kg		10/23/17 13:35	10/23/17 22:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.5	B	0.15	0.023	mg/Kg		10/24/17 08:46	10/24/17 13:07	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-71-0.5

Lab Sample ID: 720-82620-32

Date Collected: 10/10/17 16:25
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6	J	3.6	0.31	mg/Kg		10/23/17 13:35	10/23/17 22:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.42	B	0.16	0.024	mg/Kg		10/24/17 08:46	10/24/17 13:10	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-72-00

Lab Sample ID: 720-82620-33

Date Collected: 10/10/17 08:54
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9		3.1	0.27	mg/Kg		10/23/17 13:35	10/23/17 23:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2	B	0.14	0.021	mg/Kg		10/24/17 08:46	10/24/17 13:12	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-73-00

Lab Sample ID: 720-82620-35

Date Collected: 10/10/17 09:14
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		2.6	0.22	mg/Kg		10/23/17 13:35	10/23/17 23:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3	B	0.16	0.023	mg/Kg		10/24/17 08:46	10/24/17 13:21	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-74-00

Lab Sample ID: 720-82620-36

Date Collected: 10/10/17 09:19
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.2		3.0	0.26	mg/Kg		10/23/17 13:35	10/23/17 23:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.44	B	0.16	0.023	mg/Kg		10/24/17 08:46	10/24/17 13:24	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-75-00

Lab Sample ID: 720-82620-37

Date Collected: 10/10/17 09:25
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		3.1	0.26	mg/Kg		10/23/17 13:35	10/23/17 23:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.61	B	0.16	0.023	mg/Kg		10/24/17 08:46	10/24/17 13:26	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-76-00

Lab Sample ID: 720-82620-39

Date Collected: 10/10/17 09:32
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.6	0.31	mg/Kg		10/23/17 13:37	10/24/17 00:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.76		0.16	0.024	mg/Kg		10/24/17 09:38	10/24/17 14:44	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-77-00

Date Collected: 10/10/17 09:36
Date Received: 10/17/17 17:32

Lab Sample ID: 720-82620-40

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1	J	3.5	0.30	mg/Kg		10/23/17 13:37	10/24/17 00:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.84		0.16	0.024	mg/Kg		10/24/17 09:38	10/24/17 14:46	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-78-00

Lab Sample ID: 720-82620-41

Date Collected: 10/10/17 09:50
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		2.9	0.25	mg/Kg		10/23/17 13:37	10/24/17 00:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.5		0.16	0.024	mg/Kg		10/24/17 09:38	10/24/17 14:49	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-79-00

Lab Sample ID: 720-82620-42

Date Collected: 10/10/17 09:57
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9		3.8	0.32	mg/Kg		10/23/17 13:37	10/24/17 00:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.016	0.0024	mg/Kg		10/24/17 09:38	10/24/17 15:41	1

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-81-00

Lab Sample ID: 720-82620-44

Date Collected: 10/10/17 10:19
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.7		3.4	0.29	mg/Kg		10/23/17 13:37	10/24/17 00:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.1		0.16	0.024	mg/Kg		10/24/17 09:38	10/24/17 14:56	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-82-00

Lab Sample ID: 720-82620-45

Date Collected: 10/10/17 10:27
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.1		2.6	0.22	mg/Kg		10/23/17 13:37	10/24/17 00:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.015	0.0021	mg/Kg		10/24/17 09:38	10/24/17 15:45	1

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-82-0.5

Lab Sample ID: 720-82620-46

Date Collected: 10/10/17 15:15
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	0.26	mg/Kg		10/23/17 13:37	10/24/17 00:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.015	0.0022	mg/Kg		10/24/17 09:38	10/24/17 15:48	1

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-84-00

Lab Sample ID: 720-82620-49

Date Collected: 10/10/17 10:41
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.1		3.1	0.27	mg/Kg		10/23/17 13:37	10/24/17 10:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.0		0.16	0.023	mg/Kg		10/24/17 09:38	10/24/17 15:12	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-85-00

Lab Sample ID: 720-82620-50

Date Collected: 10/10/17 10:52
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		2.8	0.24	mg/Kg		10/23/17 13:37	10/24/17 10:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.8		0.16	0.023	mg/Kg		10/24/17 09:38	10/24/17 15:15	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-86-00

Lab Sample ID: 720-82620-52

Date Collected: 10/10/17 10:58
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	34		3.3	0.28	mg/Kg		10/23/17 13:37	10/24/17 10:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.6		0.15	0.022	mg/Kg		10/24/17 09:38	10/24/17 15:19	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-86-0.5

Lab Sample ID: 720-82620-53

Date Collected: 10/10/17 15:43
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.6	0.31	mg/Kg		10/23/17 13:37	10/24/17 11:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4		0.15	0.022	mg/Kg		10/24/17 09:38	10/24/17 15:22	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-87-00

Lab Sample ID: 720-82620-54

Date Collected: 10/10/17 11:25
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	25		3.0	0.26	mg/Kg		10/23/17 13:37	10/24/17 11:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	49		1.5	0.22	mg/Kg		10/24/17 09:38	10/24/17 15:52	100

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-87-1.0

Lab Sample ID: 720-82620-55

Date Collected: 10/10/17 17:18
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		3.2	0.27	mg/Kg		10/23/17 13:37	10/24/17 11:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	7.3		0.16	0.023	mg/Kg		10/24/17 09:38	10/24/17 15:31	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-88-00

Lab Sample ID: 720-82620-57

Date Collected: 10/10/17 11:34
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.5		2.8	0.24	mg/Kg		10/23/17 13:37	10/24/17 11:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	43		1.6	0.23	mg/Kg		10/24/17 09:38	10/24/17 16:02	100

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-92-00

Lab Sample ID: 720-82620-59

Date Collected: 10/10/17 12:03
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	47		2.3	0.19	mg/Kg		10/23/17 13:37	10/24/17 11:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	400	B	8.2	1.2	mg/Kg		10/24/17 08:46	10/24/17 13:58	500

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-93-00

Lab Sample ID: 720-82620-60

Date Collected: 10/10/17 12:13
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	48		2.6	0.22	mg/Kg		10/23/17 13:37	10/24/17 11:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	330	B	7.3	1.1	mg/Kg		10/24/17 08:46	10/24/17 14:01	500

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-94-00

Lab Sample ID: 720-82620-61

Date Collected: 10/10/17 12:27
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.9		2.6	0.22	mg/Kg		10/23/17 13:37	10/24/17 11:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.7	B	0.15	0.021	mg/Kg		10/24/17 08:46	10/24/17 13:00	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-96-00

Lab Sample ID: 720-82620-63

Date Collected: 10/10/17 12:42
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		2.5	0.21	mg/Kg		10/23/17 13:37	10/24/17 11:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	38	B	1.5	0.22	mg/Kg		10/24/17 08:46	10/24/17 13:53	100

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-97-00

Date Collected: 10/10/17 12:49
Date Received: 10/17/17 17:32

Lab Sample ID: 720-82620-64

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	22		2.4	0.20	mg/Kg		10/23/17 13:37	10/24/17 11:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	88	B	1.5	0.22	mg/Kg		10/24/17 08:46	10/24/17 13:56	100

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-98-00

Lab Sample ID: 720-82620-65

Date Collected: 10/10/17 12:55
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		3.1	0.26	mg/Kg		10/23/17 13:37	10/24/17 11:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	23		0.76	0.11	mg/Kg		10/24/17 09:38	10/24/17 15:43	50

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-99-00

Lab Sample ID: 720-82620-66

Date Collected: 10/10/17 13:04
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		3.6	0.30	mg/Kg		10/23/17 14:48	10/24/17 00:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	44		1.5	0.22	mg/Kg		10/24/17 09:38	10/24/17 15:50	100

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-100-00

Lab Sample ID: 720-82620-67

Date Collected: 10/10/17 13:20
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		3.4	0.29	mg/Kg		10/23/17 14:48	10/24/17 00:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.0		0.15	0.022	mg/Kg		10/24/17 09:38	10/24/17 15:10	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-101-00

Lab Sample ID: 720-82620-68

Date Collected: 10/10/17 14:22
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		3.5	0.30	mg/Kg		10/23/17 14:48	10/24/17 00:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13		0.16	0.024	mg/Kg		10/24/17 09:38	10/24/17 15:17	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-105-00

Lab Sample ID: 720-82620-71

Date Collected: 10/13/17 11:05
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	89		3.3	0.28	mg/Kg		10/23/17 14:48	10/24/17 00:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	880		15	2.2	mg/Kg		10/24/17 09:38	10/24/17 16:14	1000

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-105-3.5

Lab Sample ID: 720-82620-72

Date Collected: 10/13/17 11:06
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		2.8	0.24	mg/Kg		10/23/17 14:48	10/24/17 00:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1		0.16	0.023	mg/Kg		10/24/17 09:38	10/24/17 15:38	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-106-00

Lab Sample ID: 720-82620-73

Date Collected: 10/13/17 11:34
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	38		3.7	0.31	mg/Kg		10/23/17 14:48	10/24/17 00:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	410	F2	7.5	1.1	mg/Kg		10/24/17 08:57	10/24/17 18:02	500

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-106-2.0

Lab Sample ID: 720-82620-74

Date Collected: 10/13/17 11:37
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		2.6	0.22	mg/Kg		10/23/17 14:48	10/24/17 00:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4		0.16	0.023	mg/Kg		10/24/17 08:57	10/24/17 16:56	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-107-00

Lab Sample ID: 720-82620-75

Date Collected: 10/13/17 11:58
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		2.4	0.20	mg/Kg		10/23/17 14:48	10/24/17 00:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	76		1.5	0.22	mg/Kg		10/24/17 08:57	10/24/17 18:10	100

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-107-1.0

Lab Sample ID: 720-82620-76

Date Collected: 10/13/17 12:00
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		2.9	0.25	mg/Kg		10/23/17 14:48	10/24/17 00:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0		0.15	0.023	mg/Kg		10/24/17 08:57	10/24/17 17:01	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-108-00

Date Collected: 10/13/17 12:27
Date Received: 10/17/17 17:32

Lab Sample ID: 720-82620-77

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	34		3.3	0.28	mg/Kg		10/23/17 14:48	10/24/17 00:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.6		0.15	0.022	mg/Kg		10/24/17 08:57	10/24/17 17:04	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-46-3.8

Lab Sample ID: 720-82620-78

Date Collected: 10/13/17 10:18
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		3.9	0.33	mg/Kg		10/23/17 14:48	10/24/17 10:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.77		0.16	0.024	mg/Kg		10/24/17 08:57	10/24/17 17:06	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-28-0.5

Lab Sample ID: 720-82620-80

Date Collected: 10/10/17 17:09
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.2		3.8	0.32	mg/Kg		10/23/17 14:48	10/24/17 10:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.0		0.14	0.021	mg/Kg		10/24/17 08:57	10/24/17 17:13	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-40-00

Lab Sample ID: 720-82620-81

Date Collected: 10/09/17 13:19
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3		3.3	0.28	mg/Kg		10/23/17 14:48	10/24/17 10:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14		0.30	0.044	mg/Kg		10/24/17 08:57	10/24/17 18:12	20

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-41-00

Date Collected: 10/09/17 13:46
Date Received: 10/17/17 17:32

Lab Sample ID: 720-82620-82

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		2.7	0.23	mg/Kg		10/23/17 14:48	10/24/17 10:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13		0.16	0.024	mg/Kg		10/24/17 08:57	10/24/17 17:18	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-57-00

Lab Sample ID: 720-82620-83

Date Collected: 10/09/17 16:25
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.2		2.5	0.21	mg/Kg		10/23/17 14:48	10/24/17 10:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	8.1		0.17	0.025	mg/Kg		10/24/17 08:57	10/24/17 17:20	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-80-00

Lab Sample ID: 720-82620-84

Date Collected: 10/10/17 10:07
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		3.1	0.26	mg/Kg		10/23/17 14:48	10/24/17 10:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	8.0		0.16	0.023	mg/Kg		10/24/17 08:57	10/24/17 17:23	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-30-1.5

Lab Sample ID: 720-82620-94

Date Collected: 10/11/17 12:12
Date Received: 10/17/17 17:32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9		2.4	0.20	mg/Kg		10/23/17 14:48	10/24/17 10:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.1		0.15	0.022	mg/Kg		10/24/17 08:57	10/24/17 17:26	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-32-0.5

Lab Sample ID: 720-82620-95

Date Collected: 10/11/17 11:58
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.0		2.8	0.24	mg/Kg		10/23/17 14:48	10/24/17 10:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	95		1.6	0.23	mg/Kg		10/24/17 08:57	10/24/17 18:15	100

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-12-0.5

Lab Sample ID: 720-82620-101

Date Collected: 10/11/17 08:02
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		2.4	0.20	mg/Kg		10/23/17 14:48	10/24/17 10:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.79		0.14	0.021	mg/Kg		10/24/17 08:57	10/24/17 17:30	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-24-0.5

Lab Sample ID: 720-82620-102

Date Collected: 10/11/17 07:46
Matrix: Solid
Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		2.6	0.22	mg/Kg		10/23/17 14:48	10/24/17 10:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.0		0.15	0.023	mg/Kg		10/24/17 08:57	10/24/17 17:33	10

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-232571/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232646 — **Prep Batch: 232571**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.085	mg/Kg		10/23/17 10:33	10/23/17 19:27	1

Lab Sample ID: LCS 720-232571/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232646 — **Prep Batch: 232571**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.0		mg/Kg		100	80 - 120

Lab Sample ID: MB 720-232595/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232650 — **Prep Batch: 232595**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.085	mg/Kg		10/23/17 13:35	10/23/17 20:43	1

Lab Sample ID: LCS 720-232595/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232650 — **Prep Batch: 232595**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	49.8		mg/Kg		100	80 - 120

Lab Sample ID: MB 720-232596/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232651 — **Prep Batch: 232596**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.085	mg/Kg		10/23/17 13:37	10/23/17 23:27	1

Lab Sample ID: LCS 720-232596/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232651 — **Prep Batch: 232596**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.2		mg/Kg		100	80 - 120

Lab Sample ID: 720-82620-39 MS — **Client Sample ID: MM-S-76-00**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232651 — **Prep Batch: 232596**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	12		42.4	57.4		mg/Kg		107	75 - 125

Lab Sample ID: 720-82620-39 MSD — **Client Sample ID: MM-S-76-00**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232651 — **Prep Batch: 232596**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	12		42.4	53.0		mg/Kg		97	75 - 125	8	20

QC Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Lab Sample ID: MB 720-232604/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232648 — **Prep Batch: 232604**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.085	mg/Kg		10/23/17 14:48	10/23/17 23:39	1

Lab Sample ID: LCS 720-232604/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232648 — **Prep Batch: 232604**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.3		mg/Kg		101	80 - 120

Lab Sample ID: 720-82620-66 MS — **Client Sample ID: MM-S-99-00**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232648 — **Prep Batch: 232604**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	14		46.3	58.8		mg/Kg		97	75 - 125

Lab Sample ID: 720-82620-66 MSD — **Client Sample ID: MM-S-99-00**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232648 — **Prep Batch: 232604**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	14		45.9	58.5		mg/Kg		97	75 - 125	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-232410/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232438 — **Prep Batch: 232410**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		10/19/17 10:05	10/19/17 13:16	1

Lab Sample ID: LCS 720-232410/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232438 — **Prep Batch: 232410**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.801		mg/Kg		96	80 - 120

Lab Sample ID: MB 720-232539/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232599 — **Prep Batch: 232539**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		10/23/17 09:50	10/23/17 12:59	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-232539/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232599 — **Prep Batch: 232539**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.798		mg/Kg		96	80 - 120

Lab Sample ID: MB 720-232542/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232690 — **Prep Batch: 232542**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00278	J	0.017	0.0025	mg/Kg		10/24/17 08:46	10/24/17 12:25	1

Lab Sample ID: LCS 720-232542/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232690 — **Prep Batch: 232542**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.858		mg/Kg		103	80 - 120

Lab Sample ID: 720-82620-19 MS — **Client Sample ID: MM-S-63-00**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232690 — **Prep Batch: 232542**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.9	F1 B	0.735	5.19	F1	mg/Kg		316	75 - 125

Lab Sample ID: 720-82620-19 MSD — **Client Sample ID: MM-S-63-00**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232690 — **Prep Batch: 232542**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	2.9	F1 B	0.769	5.55	F1	mg/Kg		350	75 - 125	7	20

Lab Sample ID: MB 720-232543/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232707 — **Prep Batch: 232543**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		10/24/17 09:38	10/24/17 14:35	1

Lab Sample ID: LCS 720-232543/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232707 — **Prep Batch: 232543**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.854		mg/Kg		102	80 - 120

Lab Sample ID: 720-82620-39 MS — **Client Sample ID: MM-S-76-00**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232707 — **Prep Batch: 232543**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.76		0.794	1.67		mg/Kg		114	75 - 125

QC Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Lab Sample ID: 720-82620-39 MSD — **Client Sample ID: MM-S-76-00**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232707 — **Prep Batch: 232543**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.76		0.794	1.66		mg/Kg		113	75 - 125	1	20

Lab Sample ID: MB 720-232653/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232723 — **Prep Batch: 232653**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		10/24/17 08:57	10/24/17 16:45	1

Lab Sample ID: LCS 720-232653/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232723 — **Prep Batch: 232653**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.850		mg/Kg		102	80 - 120		

Lab Sample ID: 720-82620-73 MS — **Client Sample ID: MM-S-106-00**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232723 — **Prep Batch: 232653**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	410	F2	0.806	411	4	mg/Kg		-356	75 - 125		

Lab Sample ID: 720-82620-73 MSD — **Client Sample ID: MM-S-106-00**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 232723 — **Prep Batch: 232653**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	410	F2	0.820	333	4 F2	mg/Kg		-9803	75 - 125	21	20

QC Association Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Metals

Prep Batch: 232410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-1	MM-S-44-2.0	Total/NA	Solid	7471A	
MB 720-232410/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-232410/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 232438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-1	MM-S-44-2.0	Total/NA	Solid	7471A	232410
MB 720-232410/1-A	Method Blank	Total/NA	Solid	7471A	232410
LCS 720-232410/2-A	Lab Control Sample	Total/NA	Solid	7471A	232410

Prep Batch: 232539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-3	MM-S-46-2.0	Total/NA	Solid	7471A	
720-82620-4	MM-S-51-00	Total/NA	Solid	7471A	
720-82620-5	MM-S-50-00	Total/NA	Solid	7471A	
720-82620-6	MM-S-49-00	Total/NA	Solid	7471A	
720-82620-7	MM-S-48-00	Total/NA	Solid	7471A	
720-82620-8	MM-S-47-00	Total/NA	Solid	7471A	
720-82620-9	MM-S-52-00	Total/NA	Solid	7471A	
720-82620-10	MM-S-53-00	Total/NA	Solid	7471A	
720-82620-11	MM-S-54-00	Total/NA	Solid	7471A	
720-82620-12	MM-S-55-00	Total/NA	Solid	7471A	
720-82620-13	MM-S-56-1.0	Total/NA	Solid	7471A	
720-82620-14	MM-S-58-00	Total/NA	Solid	7471A	
720-82620-15	MM-S-59-00	Total/NA	Solid	7471A	
720-82620-16	MM-S-60-00	Total/NA	Solid	7471A	
720-82620-17	MM-S-61-00	Total/NA	Solid	7471A	
720-82620-18	MM-S-62-00	Total/NA	Solid	7471A	
MB 720-232539/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-232539/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 232542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-19	MM-S-63-00	Total/NA	Solid	7471A	
720-82620-21	MM-S-64-00	Total/NA	Solid	7471A	
720-82620-23	MM-S-65-00	Total/NA	Solid	7471A	
720-82620-24	MM-S-66-00	Total/NA	Solid	7471A	
720-82620-25	MM-S-67-00	Total/NA	Solid	7471A	
720-82620-26	MM-S-68-00	Total/NA	Solid	7471A	
720-82620-27	MM-S-69-00	Total/NA	Solid	7471A	
720-82620-29	MM-S-70-00	Total/NA	Solid	7471A	
720-82620-30	MM-S-70-1.0	Total/NA	Solid	7471A	
720-82620-31	MM-S-71-00	Total/NA	Solid	7471A	
720-82620-32	MM-S-71-0.5	Total/NA	Solid	7471A	
720-82620-33	MM-S-72-00	Total/NA	Solid	7471A	
720-82620-35	MM-S-73-00	Total/NA	Solid	7471A	
720-82620-36	MM-S-74-00	Total/NA	Solid	7471A	
720-82620-37	MM-S-75-00	Total/NA	Solid	7471A	
720-82620-59	MM-S-92-00	Total/NA	Solid	7471A	
720-82620-60	MM-S-93-00	Total/NA	Solid	7471A	
720-82620-61	MM-S-94-00	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 232542 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-63	MM-S-96-00	Total/NA	Solid	7471A	
720-82620-64	MM-S-97-00	Total/NA	Solid	7471A	
MB 720-232542/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-232542/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-82620-19 MS	MM-S-63-00	Total/NA	Solid	7471A	
720-82620-19 MSD	MM-S-63-00	Total/NA	Solid	7471A	

Prep Batch: 232543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-39	MM-S-76-00	Total/NA	Solid	7471A	
720-82620-40	MM-S-77-00	Total/NA	Solid	7471A	
720-82620-41	MM-S-78-00	Total/NA	Solid	7471A	
720-82620-42	MM-S-79-00	Total/NA	Solid	7471A	
720-82620-44	MM-S-81-00	Total/NA	Solid	7471A	
720-82620-45	MM-S-82-00	Total/NA	Solid	7471A	
720-82620-46	MM-S-82-0.5	Total/NA	Solid	7471A	
720-82620-49	MM-S-84-00	Total/NA	Solid	7471A	
720-82620-50	MM-S-85-00	Total/NA	Solid	7471A	
720-82620-52	MM-S-86-00	Total/NA	Solid	7471A	
720-82620-53	MM-S-86-0.5	Total/NA	Solid	7471A	
720-82620-54	MM-S-87-00	Total/NA	Solid	7471A	
720-82620-55	MM-S-87-1.0	Total/NA	Solid	7471A	
720-82620-57	MM-S-88-00	Total/NA	Solid	7471A	
720-82620-65	MM-S-98-00	Total/NA	Solid	7471A	
720-82620-66	MM-S-99-00	Total/NA	Solid	7471A	
720-82620-67	MM-S-100-00	Total/NA	Solid	7471A	
720-82620-68	MM-S-101-00	Total/NA	Solid	7471A	
720-82620-71	MM-S-105-00	Total/NA	Solid	7471A	
720-82620-72	MM-S-105-3.5	Total/NA	Solid	7471A	
MB 720-232543/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-232543/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-82620-39 MS	MM-S-76-00	Total/NA	Solid	7471A	
720-82620-39 MSD	MM-S-76-00	Total/NA	Solid	7471A	

Prep Batch: 232571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-3	MM-S-46-2.0	Total/NA	Solid	3050B	
720-82620-4	MM-S-51-00	Total/NA	Solid	3050B	
720-82620-5	MM-S-50-00	Total/NA	Solid	3050B	
720-82620-6	MM-S-49-00	Total/NA	Solid	3050B	
720-82620-7	MM-S-48-00	Total/NA	Solid	3050B	
720-82620-8	MM-S-47-00	Total/NA	Solid	3050B	
720-82620-9	MM-S-52-00	Total/NA	Solid	3050B	
720-82620-10	MM-S-53-00	Total/NA	Solid	3050B	
720-82620-11	MM-S-54-00	Total/NA	Solid	3050B	
720-82620-12	MM-S-55-00	Total/NA	Solid	3050B	
720-82620-13	MM-S-56-1.0	Total/NA	Solid	3050B	
720-82620-14	MM-S-58-00	Total/NA	Solid	3050B	
720-82620-15	MM-S-59-00	Total/NA	Solid	3050B	
720-82620-16	MM-S-60-00	Total/NA	Solid	3050B	
720-82620-17	MM-S-61-00	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 232571 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-18	MM-S-62-00	Total/NA	Solid	3050B	
MB 720-232571/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-232571/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 232595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-1	MM-S-44-2.0	Total/NA	Solid	3050B	
720-82620-19	MM-S-63-00	Total/NA	Solid	3050B	
720-82620-21	MM-S-64-00	Total/NA	Solid	3050B	
720-82620-23	MM-S-65-00	Total/NA	Solid	3050B	
720-82620-24	MM-S-66-00	Total/NA	Solid	3050B	
720-82620-25	MM-S-67-00	Total/NA	Solid	3050B	
720-82620-26	MM-S-68-00	Total/NA	Solid	3050B	
720-82620-27	MM-S-69-00	Total/NA	Solid	3050B	
720-82620-29	MM-S-70-00	Total/NA	Solid	3050B	
720-82620-30	MM-S-70-1.0	Total/NA	Solid	3050B	
720-82620-31	MM-S-71-00	Total/NA	Solid	3050B	
720-82620-32	MM-S-71-0.5	Total/NA	Solid	3050B	
720-82620-33	MM-S-72-00	Total/NA	Solid	3050B	
720-82620-35	MM-S-73-00	Total/NA	Solid	3050B	
720-82620-36	MM-S-74-00	Total/NA	Solid	3050B	
720-82620-37	MM-S-75-00	Total/NA	Solid	3050B	
MB 720-232595/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-232595/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 232596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-39	MM-S-76-00	Total/NA	Solid	3050B	
720-82620-40	MM-S-77-00	Total/NA	Solid	3050B	
720-82620-41	MM-S-78-00	Total/NA	Solid	3050B	
720-82620-42	MM-S-79-00	Total/NA	Solid	3050B	
720-82620-44	MM-S-81-00	Total/NA	Solid	3050B	
720-82620-45	MM-S-82-00	Total/NA	Solid	3050B	
720-82620-46	MM-S-82-0.5	Total/NA	Solid	3050B	
720-82620-49	MM-S-84-00	Total/NA	Solid	3050B	
720-82620-50	MM-S-85-00	Total/NA	Solid	3050B	
720-82620-52	MM-S-86-00	Total/NA	Solid	3050B	
720-82620-53	MM-S-86-0.5	Total/NA	Solid	3050B	
720-82620-54	MM-S-87-00	Total/NA	Solid	3050B	
720-82620-55	MM-S-87-1.0	Total/NA	Solid	3050B	
720-82620-57	MM-S-88-00	Total/NA	Solid	3050B	
720-82620-59	MM-S-92-00	Total/NA	Solid	3050B	
720-82620-60	MM-S-93-00	Total/NA	Solid	3050B	
720-82620-61	MM-S-94-00	Total/NA	Solid	3050B	
720-82620-63	MM-S-96-00	Total/NA	Solid	3050B	
720-82620-64	MM-S-97-00	Total/NA	Solid	3050B	
720-82620-65	MM-S-98-00	Total/NA	Solid	3050B	
MB 720-232596/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-232596/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-82620-39 MS	MM-S-76-00	Total/NA	Solid	3050B	
720-82620-39 MSD	MM-S-76-00	Total/NA	Solid	3050B	

QC Association Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Analysis Batch: 232599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-3	MM-S-46-2.0	Total/NA	Solid	7471A	232539
720-82620-4	MM-S-51-00	Total/NA	Solid	7471A	232539
720-82620-5	MM-S-50-00	Total/NA	Solid	7471A	232539
720-82620-6	MM-S-49-00	Total/NA	Solid	7471A	232539
720-82620-7	MM-S-48-00	Total/NA	Solid	7471A	232539
720-82620-8	MM-S-47-00	Total/NA	Solid	7471A	232539
720-82620-9	MM-S-52-00	Total/NA	Solid	7471A	232539
720-82620-10	MM-S-53-00	Total/NA	Solid	7471A	232539
720-82620-11	MM-S-54-00	Total/NA	Solid	7471A	232539
720-82620-12	MM-S-55-00	Total/NA	Solid	7471A	232539
720-82620-13	MM-S-56-1.0	Total/NA	Solid	7471A	232539
720-82620-14	MM-S-58-00	Total/NA	Solid	7471A	232539
720-82620-15	MM-S-59-00	Total/NA	Solid	7471A	232539
720-82620-16	MM-S-60-00	Total/NA	Solid	7471A	232539
720-82620-17	MM-S-61-00	Total/NA	Solid	7471A	232539
720-82620-18	MM-S-62-00	Total/NA	Solid	7471A	232539
MB 720-232539/1-A	Method Blank	Total/NA	Solid	7471A	232539
LCS 720-232539/2-A	Lab Control Sample	Total/NA	Solid	7471A	232539

Prep Batch: 232604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-66	MM-S-99-00	Total/NA	Solid	3050B	
720-82620-67	MM-S-100-00	Total/NA	Solid	3050B	
720-82620-68	MM-S-101-00	Total/NA	Solid	3050B	
720-82620-71	MM-S-105-00	Total/NA	Solid	3050B	
720-82620-72	MM-S-105-3.5	Total/NA	Solid	3050B	
720-82620-73	MM-S-106-00	Total/NA	Solid	3050B	
720-82620-74	MM-S-106-2.0	Total/NA	Solid	3050B	
720-82620-75	MM-S-107-00	Total/NA	Solid	3050B	
720-82620-76	MM-S-107-1.0	Total/NA	Solid	3050B	
720-82620-77	MM-S-108-00	Total/NA	Solid	3050B	
720-82620-78	MM-S-46-3.8	Total/NA	Solid	3050B	
720-82620-80	MM-S-28-0.5	Total/NA	Solid	3050B	
720-82620-81	MM-S-40-00	Total/NA	Solid	3050B	
720-82620-82	MM-S-41-00	Total/NA	Solid	3050B	
720-82620-83	MM-S-57-00	Total/NA	Solid	3050B	
720-82620-84	MM-S-80-00	Total/NA	Solid	3050B	
720-82620-94	MM-S-30-1.5	Total/NA	Solid	3050B	
720-82620-95	MM-S-32-0.5	Total/NA	Solid	3050B	
720-82620-101	MM-S-12-0.5	Total/NA	Solid	3050B	
720-82620-102	MM-S-24-0.5	Total/NA	Solid	3050B	
MB 720-232604/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-232604/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-82620-66 MS	MM-S-99-00	Total/NA	Solid	3050B	
720-82620-66 MSD	MM-S-99-00	Total/NA	Solid	3050B	

Analysis Batch: 232646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-3	MM-S-46-2.0	Total/NA	Solid	6010B	232571
720-82620-4	MM-S-51-00	Total/NA	Solid	6010B	232571
720-82620-5	MM-S-50-00	Total/NA	Solid	6010B	232571
720-82620-6	MM-S-49-00	Total/NA	Solid	6010B	232571
720-82620-7	MM-S-48-00	Total/NA	Solid	6010B	232571

Metals (Continued)

Analysis Batch: 232646 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-8	MM-S-47-00	Total/NA	Solid	6010B	232571
720-82620-9	MM-S-52-00	Total/NA	Solid	6010B	232571
720-82620-10	MM-S-53-00	Total/NA	Solid	6010B	232571
720-82620-11	MM-S-54-00	Total/NA	Solid	6010B	232571
720-82620-12	MM-S-55-00	Total/NA	Solid	6010B	232571
720-82620-13	MM-S-56-1.0	Total/NA	Solid	6010B	232571
720-82620-14	MM-S-58-00	Total/NA	Solid	6010B	232571
720-82620-15	MM-S-59-00	Total/NA	Solid	6010B	232571
720-82620-16	MM-S-60-00	Total/NA	Solid	6010B	232571
720-82620-17	MM-S-61-00	Total/NA	Solid	6010B	232571
720-82620-18	MM-S-62-00	Total/NA	Solid	6010B	232571
MB 720-232571/1-A	Method Blank	Total/NA	Solid	6010B	232571
LCS 720-232571/2-A	Lab Control Sample	Total/NA	Solid	6010B	232571

Analysis Batch: 232648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-66	MM-S-99-00	Total/NA	Solid	6010B	232604
720-82620-67	MM-S-100-00	Total/NA	Solid	6010B	232604
720-82620-68	MM-S-101-00	Total/NA	Solid	6010B	232604
720-82620-71	MM-S-105-00	Total/NA	Solid	6010B	232604
720-82620-72	MM-S-105-3.5	Total/NA	Solid	6010B	232604
720-82620-73	MM-S-106-00	Total/NA	Solid	6010B	232604
720-82620-74	MM-S-106-2.0	Total/NA	Solid	6010B	232604
720-82620-75	MM-S-107-00	Total/NA	Solid	6010B	232604
720-82620-76	MM-S-107-1.0	Total/NA	Solid	6010B	232604
720-82620-77	MM-S-108-00	Total/NA	Solid	6010B	232604
MB 720-232604/1-A	Method Blank	Total/NA	Solid	6010B	232604
LCS 720-232604/2-A	Lab Control Sample	Total/NA	Solid	6010B	232604
720-82620-66 MS	MM-S-99-00	Total/NA	Solid	6010B	232604
720-82620-66 MSD	MM-S-99-00	Total/NA	Solid	6010B	232604

Analysis Batch: 232650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-1	MM-S-44-2.0	Total/NA	Solid	6010B	232595
720-82620-19	MM-S-63-00	Total/NA	Solid	6010B	232595
720-82620-21	MM-S-64-00	Total/NA	Solid	6010B	232595
720-82620-23	MM-S-65-00	Total/NA	Solid	6010B	232595
720-82620-24	MM-S-66-00	Total/NA	Solid	6010B	232595
720-82620-25	MM-S-67-00	Total/NA	Solid	6010B	232595
720-82620-26	MM-S-68-00	Total/NA	Solid	6010B	232595
720-82620-27	MM-S-69-00	Total/NA	Solid	6010B	232595
720-82620-29	MM-S-70-00	Total/NA	Solid	6010B	232595
720-82620-30	MM-S-70-1.0	Total/NA	Solid	6010B	232595
720-82620-31	MM-S-71-00	Total/NA	Solid	6010B	232595
720-82620-32	MM-S-71-0.5	Total/NA	Solid	6010B	232595
720-82620-33	MM-S-72-00	Total/NA	Solid	6010B	232595
720-82620-35	MM-S-73-00	Total/NA	Solid	6010B	232595
720-82620-36	MM-S-74-00	Total/NA	Solid	6010B	232595
720-82620-37	MM-S-75-00	Total/NA	Solid	6010B	232595
MB 720-232595/1-A	Method Blank	Total/NA	Solid	6010B	232595
LCS 720-232595/2-A	Lab Control Sample	Total/NA	Solid	6010B	232595

QC Association Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Analysis Batch: 232651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-39	MM-S-76-00	Total/NA	Solid	6010B	232596
720-82620-40	MM-S-77-00	Total/NA	Solid	6010B	232596
720-82620-41	MM-S-78-00	Total/NA	Solid	6010B	232596
720-82620-42	MM-S-79-00	Total/NA	Solid	6010B	232596
720-82620-44	MM-S-81-00	Total/NA	Solid	6010B	232596
720-82620-45	MM-S-82-00	Total/NA	Solid	6010B	232596
720-82620-46	MM-S-82-0.5	Total/NA	Solid	6010B	232596
MB 720-232596/1-A	Method Blank	Total/NA	Solid	6010B	232596
LCS 720-232596/2-A	Lab Control Sample	Total/NA	Solid	6010B	232596
720-82620-39 MS	MM-S-76-00	Total/NA	Solid	6010B	232596
720-82620-39 MSD	MM-S-76-00	Total/NA	Solid	6010B	232596

Prep Batch: 232653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-73	MM-S-106-00	Total/NA	Solid	7471A	
720-82620-74	MM-S-106-2.0	Total/NA	Solid	7471A	
720-82620-75	MM-S-107-00	Total/NA	Solid	7471A	
720-82620-76	MM-S-107-1.0	Total/NA	Solid	7471A	
720-82620-77	MM-S-108-00	Total/NA	Solid	7471A	
720-82620-78	MM-S-46-3.8	Total/NA	Solid	7471A	
720-82620-80	MM-S-28-0.5	Total/NA	Solid	7471A	
720-82620-81	MM-S-40-00	Total/NA	Solid	7471A	
720-82620-82	MM-S-41-00	Total/NA	Solid	7471A	
720-82620-83	MM-S-57-00	Total/NA	Solid	7471A	
720-82620-84	MM-S-80-00	Total/NA	Solid	7471A	
720-82620-94	MM-S-30-1.5	Total/NA	Solid	7471A	
720-82620-95	MM-S-32-0.5	Total/NA	Solid	7471A	
720-82620-101	MM-S-12-0.5	Total/NA	Solid	7471A	
720-82620-102	MM-S-24-0.5	Total/NA	Solid	7471A	
MB 720-232653/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-232653/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-82620-73 MS	MM-S-106-00	Total/NA	Solid	7471A	
720-82620-73 MSD	MM-S-106-00	Total/NA	Solid	7471A	

Analysis Batch: 232669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-78	MM-S-46-3.8	Total/NA	Solid	6010B	232604
720-82620-80	MM-S-28-0.5	Total/NA	Solid	6010B	232604
720-82620-81	MM-S-40-00	Total/NA	Solid	6010B	232604
720-82620-82	MM-S-41-00	Total/NA	Solid	6010B	232604
720-82620-83	MM-S-57-00	Total/NA	Solid	6010B	232604
720-82620-84	MM-S-80-00	Total/NA	Solid	6010B	232604
720-82620-94	MM-S-30-1.5	Total/NA	Solid	6010B	232604
720-82620-95	MM-S-32-0.5	Total/NA	Solid	6010B	232604
720-82620-101	MM-S-12-0.5	Total/NA	Solid	6010B	232604
720-82620-102	MM-S-24-0.5	Total/NA	Solid	6010B	232604

Analysis Batch: 232681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-49	MM-S-84-00	Total/NA	Solid	6010B	232596
720-82620-50	MM-S-85-00	Total/NA	Solid	6010B	232596
720-82620-52	MM-S-86-00	Total/NA	Solid	6010B	232596
720-82620-53	MM-S-86-0.5	Total/NA	Solid	6010B	232596

Metals (Continued)

Analysis Batch: 232681 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-54	MM-S-87-00	Total/NA	Solid	6010B	232596
720-82620-55	MM-S-87-1.0	Total/NA	Solid	6010B	232596
720-82620-57	MM-S-88-00	Total/NA	Solid	6010B	232596
720-82620-59	MM-S-92-00	Total/NA	Solid	6010B	232596
720-82620-60	MM-S-93-00	Total/NA	Solid	6010B	232596
720-82620-61	MM-S-94-00	Total/NA	Solid	6010B	232596
720-82620-63	MM-S-96-00	Total/NA	Solid	6010B	232596
720-82620-64	MM-S-97-00	Total/NA	Solid	6010B	232596
720-82620-65	MM-S-98-00	Total/NA	Solid	6010B	232596

Analysis Batch: 232690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-19	MM-S-63-00	Total/NA	Solid	7471A	232542
720-82620-21	MM-S-64-00	Total/NA	Solid	7471A	232542
720-82620-23	MM-S-65-00	Total/NA	Solid	7471A	232542
720-82620-24	MM-S-66-00	Total/NA	Solid	7471A	232542
720-82620-25	MM-S-67-00	Total/NA	Solid	7471A	232542
720-82620-26	MM-S-68-00	Total/NA	Solid	7471A	232542
720-82620-27	MM-S-69-00	Total/NA	Solid	7471A	232542
720-82620-29	MM-S-70-00	Total/NA	Solid	7471A	232542
720-82620-30	MM-S-70-1.0	Total/NA	Solid	7471A	232542
720-82620-31	MM-S-71-00	Total/NA	Solid	7471A	232542
720-82620-32	MM-S-71-0.5	Total/NA	Solid	7471A	232542
720-82620-33	MM-S-72-00	Total/NA	Solid	7471A	232542
720-82620-35	MM-S-73-00	Total/NA	Solid	7471A	232542
720-82620-36	MM-S-74-00	Total/NA	Solid	7471A	232542
720-82620-37	MM-S-75-00	Total/NA	Solid	7471A	232542
720-82620-59	MM-S-92-00	Total/NA	Solid	7471A	232542
720-82620-60	MM-S-93-00	Total/NA	Solid	7471A	232542
720-82620-61	MM-S-94-00	Total/NA	Solid	7471A	232542
720-82620-63	MM-S-96-00	Total/NA	Solid	7471A	232542
720-82620-64	MM-S-97-00	Total/NA	Solid	7471A	232542
MB 720-232542/1-A	Method Blank	Total/NA	Solid	7471A	232542
LCS 720-232542/2-A	Lab Control Sample	Total/NA	Solid	7471A	232542
720-82620-19 MS	MM-S-63-00	Total/NA	Solid	7471A	232542
720-82620-19 MSD	MM-S-63-00	Total/NA	Solid	7471A	232542

Analysis Batch: 232707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-39	MM-S-76-00	Total/NA	Solid	7471A	232543
720-82620-40	MM-S-77-00	Total/NA	Solid	7471A	232543
720-82620-41	MM-S-78-00	Total/NA	Solid	7471A	232543
720-82620-42	MM-S-79-00	Total/NA	Solid	7471A	232543
720-82620-44	MM-S-81-00	Total/NA	Solid	7471A	232543
720-82620-45	MM-S-82-00	Total/NA	Solid	7471A	232543
720-82620-46	MM-S-82-0.5	Total/NA	Solid	7471A	232543
720-82620-49	MM-S-84-00	Total/NA	Solid	7471A	232543
720-82620-50	MM-S-85-00	Total/NA	Solid	7471A	232543
720-82620-52	MM-S-86-00	Total/NA	Solid	7471A	232543
720-82620-53	MM-S-86-0.5	Total/NA	Solid	7471A	232543
720-82620-54	MM-S-87-00	Total/NA	Solid	7471A	232543

Metals (Continued)

Analysis Batch: 232707 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-55	MM-S-87-1.0	Total/NA	Solid	7471A	232543
720-82620-57	MM-S-88-00	Total/NA	Solid	7471A	232543
720-82620-65	MM-S-98-00	Total/NA	Solid	7471A	232543
720-82620-66	MM-S-99-00	Total/NA	Solid	7471A	232543
720-82620-67	MM-S-100-00	Total/NA	Solid	7471A	232543
720-82620-68	MM-S-101-00	Total/NA	Solid	7471A	232543
720-82620-71	MM-S-105-00	Total/NA	Solid	7471A	232543
720-82620-72	MM-S-105-3.5	Total/NA	Solid	7471A	232543
MB 720-232543/1-A	Method Blank	Total/NA	Solid	7471A	232543
LCS 720-232543/2-A	Lab Control Sample	Total/NA	Solid	7471A	232543
720-82620-39 MS	MM-S-76-00	Total/NA	Solid	7471A	232543
720-82620-39 MSD	MM-S-76-00	Total/NA	Solid	7471A	232543

Analysis Batch: 232723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-73	MM-S-106-00	Total/NA	Solid	7471A	232653
720-82620-74	MM-S-106-2.0	Total/NA	Solid	7471A	232653
720-82620-75	MM-S-107-00	Total/NA	Solid	7471A	232653
720-82620-76	MM-S-107-1.0	Total/NA	Solid	7471A	232653
720-82620-77	MM-S-108-00	Total/NA	Solid	7471A	232653
720-82620-78	MM-S-46-3.8	Total/NA	Solid	7471A	232653
720-82620-80	MM-S-28-0.5	Total/NA	Solid	7471A	232653
720-82620-81	MM-S-40-00	Total/NA	Solid	7471A	232653
720-82620-82	MM-S-41-00	Total/NA	Solid	7471A	232653
720-82620-83	MM-S-57-00	Total/NA	Solid	7471A	232653
720-82620-84	MM-S-80-00	Total/NA	Solid	7471A	232653
720-82620-94	MM-S-30-1.5	Total/NA	Solid	7471A	232653
720-82620-95	MM-S-32-0.5	Total/NA	Solid	7471A	232653
720-82620-101	MM-S-12-0.5	Total/NA	Solid	7471A	232653
720-82620-102	MM-S-24-0.5	Total/NA	Solid	7471A	232653
MB 720-232653/1-A	Method Blank	Total/NA	Solid	7471A	232653
LCS 720-232653/2-A	Lab Control Sample	Total/NA	Solid	7471A	232653
720-82620-73 MS	MM-S-106-00	Total/NA	Solid	7471A	232653
720-82620-73 MSD	MM-S-106-00	Total/NA	Solid	7471A	232653

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-44-2.0 — Lab Sample ID: 720-82620-1

Date Collected: 10/11/17 15:21 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 21:47	CAM	TAL PLS
Total/NA	Prep	7471A			232410	10/19/17 10:05	AJS	TAL PLS
Total/NA	Analysis	7471A		100	232438	10/19/17 14:44	ASB	TAL PLS

Client Sample ID: MM-S-46-2.0 — Lab Sample ID: 720-82620-3

Date Collected: 10/11/17 12:29 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 20:14	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 14:05	ASB	TAL PLS

Client Sample ID: MM-S-51-00 — Lab Sample ID: 720-82620-4

Date Collected: 10/09/17 15:23 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 20:18	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 14:07	ASB	TAL PLS

Client Sample ID: MM-S-50-00 — Lab Sample ID: 720-82620-5

Date Collected: 10/09/17 15:15 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 20:22	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 13:27	ASB	TAL PLS

Client Sample ID: MM-S-49-00 — Lab Sample ID: 720-82620-6

Date Collected: 10/09/17 15:05 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 20:26	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-49-00 — Lab Sample ID: 720-82620-6

Date Collected: 10/09/17 15:05 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		10	232599	10/23/17 13:29	ASB	TAL PLS

Client Sample ID: MM-S-48-00 — Lab Sample ID: 720-82620-7

Date Collected: 10/09/17 14:59 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 20:30	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 13:32	ASB	TAL PLS

Client Sample ID: MM-S-47-00 — Lab Sample ID: 720-82620-8

Date Collected: 10/09/17 14:47 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 20:34	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 13:34	ASB	TAL PLS

Client Sample ID: MM-S-52-00 — Lab Sample ID: 720-82620-9

Date Collected: 10/09/17 15:47 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 20:38	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 13:36	ASB	TAL PLS

Client Sample ID: MM-S-53-00 — Lab Sample ID: 720-82620-10

Date Collected: 10/09/17 15:56 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 20:41	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 13:38	ASB	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-54-00 — Lab Sample ID: 720-82620-11

Date Collected: 10/09/17 16:05 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 20:45	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 13:41	ASB	TAL PLS

Client Sample ID: MM-S-55-00 — Lab Sample ID: 720-82620-12

Date Collected: 10/09/17 16:11 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 20:50	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 13:43	ASB	TAL PLS

Client Sample ID: MM-S-56-1.0 — Lab Sample ID: 720-82620-13

Date Collected: 10/10/17 17:54 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 21:02	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 13:45	ASB	TAL PLS

Client Sample ID: MM-S-58-00 — Lab Sample ID: 720-82620-14

Date Collected: 10/09/17 16:30 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 21:06	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 13:48	ASB	TAL PLS

Client Sample ID: MM-S-59-00 — Lab Sample ID: 720-82620-15

Date Collected: 10/09/17 16:36 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 21:10	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-59-00 — Lab Sample ID: 720-82620-15

Date Collected: 10/09/17 16:36 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		10	232599	10/23/17 13:55	ASB	TAL PLS

Client Sample ID: MM-S-60-00 — Lab Sample ID: 720-82620-16

Date Collected: 10/09/17 16:45 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 21:14	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 13:57	ASB	TAL PLS

Client Sample ID: MM-S-61-00 — Lab Sample ID: 720-82620-17

Date Collected: 10/09/17 16:55 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 21:17	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 14:00	ASB	TAL PLS

Client Sample ID: MM-S-62-00 — Lab Sample ID: 720-82620-18

Date Collected: 10/09/17 17:06 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232571	10/23/17 10:33	DA1	TAL PLS
Total/NA	Analysis	6010B		4	232646	10/23/17 21:22	CAM	TAL PLS
Total/NA	Prep	7471A			232539	10/23/17 09:50	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232599	10/23/17 14:02	ASB	TAL PLS

Client Sample ID: MM-S-63-00 — Lab Sample ID: 720-82620-19

Date Collected: 10/09/17 17:16 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 21:52	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 12:34	ASB	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-64-00 — Lab Sample ID: 720-82620-21

Date Collected: 10/09/17 17:24 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 21:57	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 13:30	ASB	TAL PLS

Client Sample ID: MM-S-65-00 — Lab Sample ID: 720-82620-23

Date Collected: 10/09/17 17:30 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 22:02	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 13:33	ASB	TAL PLS

Client Sample ID: MM-S-66-00 — Lab Sample ID: 720-82620-24

Date Collected: 10/09/17 17:38 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 22:08	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 13:35	ASB	TAL PLS

Client Sample ID: MM-S-67-00 — Lab Sample ID: 720-82620-25

Date Collected: 10/10/17 08:11 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 22:13	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 12:53	ASB	TAL PLS

Client Sample ID: MM-S-68-00 — Lab Sample ID: 720-82620-26

Date Collected: 10/10/17 08:19 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 22:18	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-68-00 — Lab Sample ID: 720-82620-26

Date Collected: 10/10/17 08:19 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		10	232690	10/24/17 12:55	ASB	TAL PLS

Client Sample ID: MM-S-69-00 — Lab Sample ID: 720-82620-27

Date Collected: 10/10/17 08:27 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 22:24	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 12:58	ASB	TAL PLS

Client Sample ID: MM-S-70-00 — Lab Sample ID: 720-82620-29

Date Collected: 10/10/17 08:34 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 22:29	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 13:02	ASB	TAL PLS

Client Sample ID: MM-S-70-1.0 — Lab Sample ID: 720-82620-30

Date Collected: 10/10/17 16:30 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 22:34	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 13:05	ASB	TAL PLS

Client Sample ID: MM-S-71-00 — Lab Sample ID: 720-82620-31

Date Collected: 10/10/17 08:46 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 22:50	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 13:07	ASB	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-71-0.5 — Lab Sample ID: 720-82620-32

Date Collected: 10/10/17 16:25
Date Received: 10/17/17 17:32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 22:55	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 13:10	ASB	TAL PLS

Client Sample ID: MM-S-72-00 — Lab Sample ID: 720-82620-33

Date Collected: 10/10/17 08:54
Date Received: 10/17/17 17:32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 23:01	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 13:12	ASB	TAL PLS

Client Sample ID: MM-S-73-00 — Lab Sample ID: 720-82620-35

Date Collected: 10/10/17 09:14
Date Received: 10/17/17 17:32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 23:06	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 13:21	ASB	TAL PLS

Client Sample ID: MM-S-74-00 — Lab Sample ID: 720-82620-36

Date Collected: 10/10/17 09:19
Date Received: 10/17/17 17:32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 23:11	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 13:24	ASB	TAL PLS

Client Sample ID: MM-S-75-00 — Lab Sample ID: 720-82620-37

Date Collected: 10/10/17 09:25
Date Received: 10/17/17 17:32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232595	10/23/17 13:35	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232650	10/23/17 23:17	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-75-00 — Lab Sample ID: 720-82620-37

Date Collected: 10/10/17 09:25 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		10	232690	10/24/17 13:26	ASB	TAL PLS

Client Sample ID: MM-S-76-00 — Lab Sample ID: 720-82620-39

Date Collected: 10/10/17 09:32 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232651	10/24/17 00:10	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232707	10/24/17 14:44	ASB	TAL PLS

Client Sample ID: MM-S-77-00 — Lab Sample ID: 720-82620-40

Date Collected: 10/10/17 09:36 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232651	10/24/17 00:15	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232707	10/24/17 14:46	ASB	TAL PLS

Client Sample ID: MM-S-78-00 — Lab Sample ID: 720-82620-41

Date Collected: 10/10/17 09:50 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232651	10/24/17 00:20	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232707	10/24/17 14:49	ASB	TAL PLS

Client Sample ID: MM-S-79-00 — Lab Sample ID: 720-82620-42

Date Collected: 10/10/17 09:57 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232651	10/24/17 00:25	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		1	232707	10/24/17 15:41	ASB	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-81-00 — Lab Sample ID: 720-82620-44

Date Collected: 10/10/17 10:19 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232651	10/24/17 00:31	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232707	10/24/17 14:56	ASB	TAL PLS

Client Sample ID: MM-S-82-00 — Lab Sample ID: 720-82620-45

Date Collected: 10/10/17 10:27 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232651	10/24/17 00:36	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		1	232707	10/24/17 15:45	ASB	TAL PLS

Client Sample ID: MM-S-82-0.5 — Lab Sample ID: 720-82620-46

Date Collected: 10/10/17 15:15 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232651	10/24/17 00:41	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		1	232707	10/24/17 15:48	ASB	TAL PLS

Client Sample ID: MM-S-84-00 — Lab Sample ID: 720-82620-49

Date Collected: 10/10/17 10:41 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232681	10/24/17 10:51	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232707	10/24/17 15:12	ASB	TAL PLS

Client Sample ID: MM-S-85-00 — Lab Sample ID: 720-82620-50

Date Collected: 10/10/17 10:52 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232681	10/24/17 10:55	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-85-00 — Lab Sample ID: 720-82620-50

Date Collected: 10/10/17 10:52 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		10	232707	10/24/17 15:15	ASB	TAL PLS

Client Sample ID: MM-S-86-00 — Lab Sample ID: 720-82620-52

Date Collected: 10/10/17 10:58 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232681	10/24/17 10:59	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232707	10/24/17 15:19	ASB	TAL PLS

Client Sample ID: MM-S-86-0.5 — Lab Sample ID: 720-82620-53

Date Collected: 10/10/17 15:43 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232681	10/24/17 11:02	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232707	10/24/17 15:22	ASB	TAL PLS

Client Sample ID: MM-S-87-00 — Lab Sample ID: 720-82620-54

Date Collected: 10/10/17 11:25 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232681	10/24/17 11:06	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		100	232707	10/24/17 15:52	ASB	TAL PLS

Client Sample ID: MM-S-87-1.0 — Lab Sample ID: 720-82620-55

Date Collected: 10/10/17 17:18 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232681	10/24/17 11:10	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232707	10/24/17 15:31	ASB	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-88-00 — Lab Sample ID: 720-82620-57

Date Collected: 10/10/17 11:34 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232681	10/24/17 11:14	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		100	232707	10/24/17 16:02	ASB	TAL PLS

Client Sample ID: MM-S-92-00 — Lab Sample ID: 720-82620-59

Date Collected: 10/10/17 12:03 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232681	10/24/17 11:18	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		500	232690	10/24/17 13:58	ASB	TAL PLS

Client Sample ID: MM-S-93-00 — Lab Sample ID: 720-82620-60

Date Collected: 10/10/17 12:13 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232681	10/24/17 11:22	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		500	232690	10/24/17 14:01	ASB	TAL PLS

Client Sample ID: MM-S-94-00 — Lab Sample ID: 720-82620-61

Date Collected: 10/10/17 12:27 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232681	10/24/17 11:26	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232690	10/24/17 13:00	ASB	TAL PLS

Client Sample ID: MM-S-96-00 — Lab Sample ID: 720-82620-63

Date Collected: 10/10/17 12:42 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232681	10/24/17 11:38	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-96-00 — Lab Sample ID: 720-82620-63

Date Collected: 10/10/17 12:42 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		100	232690	10/24/17 13:53	ASB	TAL PLS

Client Sample ID: MM-S-97-00 — Lab Sample ID: 720-82620-64

Date Collected: 10/10/17 12:49 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232681	10/24/17 11:42	CAM	TAL PLS
Total/NA	Prep	7471A			232542	10/24/17 08:46	JNG	TAL PLS
Total/NA	Analysis	7471A		100	232690	10/24/17 13:56	ASB	TAL PLS

Client Sample ID: MM-S-98-00 — Lab Sample ID: 720-82620-65

Date Collected: 10/10/17 12:55 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232596	10/23/17 13:37	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232681	10/24/17 11:45	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		50	232707	10/24/17 15:43	ASB	TAL PLS

Client Sample ID: MM-S-99-00 — Lab Sample ID: 720-82620-66

Date Collected: 10/10/17 13:04 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232648	10/24/17 00:11	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		100	232707	10/24/17 15:50	ASB	TAL PLS

Client Sample ID: MM-S-100-00 — Lab Sample ID: 720-82620-67

Date Collected: 10/10/17 13:20 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232648	10/24/17 00:15	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232707	10/24/17 15:10	ASB	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-101-00 — Lab Sample ID: 720-82620-68

Date Collected: 10/10/17 14:22 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232648	10/24/17 00:19	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232707	10/24/17 15:17	ASB	TAL PLS

Client Sample ID: MM-S-105-00 — Lab Sample ID: 720-82620-71

Date Collected: 10/13/17 11:05 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232648	10/24/17 00:23	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		1000	232707	10/24/17 16:14	ASB	TAL PLS

Client Sample ID: MM-S-105-3.5 — Lab Sample ID: 720-82620-72

Date Collected: 10/13/17 11:06 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232648	10/24/17 00:27	CAM	TAL PLS
Total/NA	Prep	7471A			232543	10/24/17 09:38	JNG	TAL PLS
Total/NA	Analysis	7471A		10	232707	10/24/17 15:38	ASB	TAL PLS

Client Sample ID: MM-S-106-00 — Lab Sample ID: 720-82620-73

Date Collected: 10/13/17 11:34 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232648	10/24/17 00:31	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS
Total/NA	Analysis	7471A		500	232723	10/24/17 18:02	ASB	TAL PLS

Client Sample ID: MM-S-106-2.0 — Lab Sample ID: 720-82620-74

Date Collected: 10/13/17 11:37 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232648	10/24/17 00:35	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-106-2.0 — Lab Sample ID: 720-82620-74

Date Collected: 10/13/17 11:37 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		10	232723	10/24/17 16:56	ASB	TAL PLS

Client Sample ID: MM-S-107-00 — Lab Sample ID: 720-82620-75

Date Collected: 10/13/17 11:58 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232648	10/24/17 00:38	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS
Total/NA	Analysis	7471A		100	232723	10/24/17 18:10	ASB	TAL PLS

Client Sample ID: MM-S-107-1.0 — Lab Sample ID: 720-82620-76

Date Collected: 10/13/17 12:00 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232648	10/24/17 00:42	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS
Total/NA	Analysis	7471A		10	232723	10/24/17 17:01	ASB	TAL PLS

Client Sample ID: MM-S-108-00 — Lab Sample ID: 720-82620-77

Date Collected: 10/13/17 12:27 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232648	10/24/17 00:46	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS
Total/NA	Analysis	7471A		10	232723	10/24/17 17:04	ASB	TAL PLS

Client Sample ID: MM-S-46-3.8 — Lab Sample ID: 720-82620-78

Date Collected: 10/13/17 10:18 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232669	10/24/17 10:04	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS
Total/NA	Analysis	7471A		10	232723	10/24/17 17:06	ASB	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-28-0.5 — Lab Sample ID: 720-82620-80

Date Collected: 10/10/17 17:09 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232669	10/24/17 10:08	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS
Total/NA	Analysis	7471A		10	232723	10/24/17 17:13	ASB	TAL PLS

Client Sample ID: MM-S-40-00 — Lab Sample ID: 720-82620-81

Date Collected: 10/09/17 13:19 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232669	10/24/17 10:12	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS
Total/NA	Analysis	7471A		20	232723	10/24/17 18:12	ASB	TAL PLS

Client Sample ID: MM-S-41-00 — Lab Sample ID: 720-82620-82

Date Collected: 10/09/17 13:46 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232669	10/24/17 10:15	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS
Total/NA	Analysis	7471A		10	232723	10/24/17 17:18	ASB	TAL PLS

Client Sample ID: MM-S-57-00 — Lab Sample ID: 720-82620-83

Date Collected: 10/09/17 16:25 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232669	10/24/17 10:19	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS
Total/NA	Analysis	7471A		10	232723	10/24/17 17:20	ASB	TAL PLS

Client Sample ID: MM-S-80-00 — Lab Sample ID: 720-82620-84

Date Collected: 10/10/17 10:07 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232669	10/24/17 10:23	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Client Sample ID: MM-S-80-00 — Lab Sample ID: 720-82620-84

Date Collected: 10/10/17 10:07 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		10	232723	10/24/17 17:23	ASB	TAL PLS

Client Sample ID: MM-S-30-1.5 — Lab Sample ID: 720-82620-94

Date Collected: 10/11/17 12:12 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232669	10/24/17 10:27	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS
Total/NA	Analysis	7471A		10	232723	10/24/17 17:26	ASB	TAL PLS

Client Sample ID: MM-S-32-0.5 — Lab Sample ID: 720-82620-95

Date Collected: 10/11/17 11:58 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232669	10/24/17 10:31	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS
Total/NA	Analysis	7471A		100	232723	10/24/17 18:15	ASB	TAL PLS

Client Sample ID: MM-S-12-0.5 — Lab Sample ID: 720-82620-101

Date Collected: 10/11/17 08:02 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232669	10/24/17 10:35	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS
Total/NA	Analysis	7471A		10	232723	10/24/17 17:30	ASB	TAL PLS

Client Sample ID: MM-S-24-0.5 — Lab Sample ID: 720-82620-102

Date Collected: 10/11/17 07:46 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			232604	10/23/17 14:48	JNG	TAL PLS
Total/NA	Analysis	6010B		4	232669	10/24/17 10:39	CAM	TAL PLS
Total/NA	Prep	7471A			232653	10/24/17 08:57	AJS	TAL PLS
Total/NA	Analysis	7471A		10	232723	10/24/17 17:33	ASB	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-18

Method Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

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

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-82620-1	MM-S-44-2.0	Solid	10/11/17 15:21	10/17/17 17:32
720-82620-3	MM-S-46-2.0	Solid	10/11/17 12:29	10/17/17 17:32
720-82620-4	MM-S-51-00	Solid	10/09/17 15:23	10/17/17 17:32
720-82620-5	MM-S-50-00	Solid	10/09/17 15:15	10/17/17 17:32
720-82620-6	MM-S-49-00	Solid	10/09/17 15:05	10/17/17 17:32
720-82620-7	MM-S-48-00	Solid	10/09/17 14:59	10/17/17 17:32
720-82620-8	MM-S-47-00	Solid	10/09/17 14:47	10/17/17 17:32
720-82620-9	MM-S-52-00	Solid	10/09/17 15:47	10/17/17 17:32
720-82620-10	MM-S-53-00	Solid	10/09/17 15:56	10/17/17 17:32
720-82620-11	MM-S-54-00	Solid	10/09/17 16:05	10/17/17 17:32
720-82620-12	MM-S-55-00	Solid	10/09/17 16:11	10/17/17 17:32
720-82620-13	MM-S-56-1.0	Solid	10/10/17 17:54	10/17/17 17:32
720-82620-14	MM-S-58-00	Solid	10/09/17 16:30	10/17/17 17:32
720-82620-15	MM-S-59-00	Solid	10/09/17 16:36	10/17/17 17:32
720-82620-16	MM-S-60-00	Solid	10/09/17 16:45	10/17/17 17:32
720-82620-17	MM-S-61-00	Solid	10/09/17 16:55	10/17/17 17:32
720-82620-18	MM-S-62-00	Solid	10/09/17 17:06	10/17/17 17:32
720-82620-19	MM-S-63-00	Solid	10/09/17 17:16	10/17/17 17:32
720-82620-21	MM-S-64-00	Solid	10/09/17 17:24	10/17/17 17:32
720-82620-23	MM-S-65-00	Solid	10/09/17 17:30	10/17/17 17:32
720-82620-24	MM-S-66-00	Solid	10/09/17 17:38	10/17/17 17:32
720-82620-25	MM-S-67-00	Solid	10/10/17 08:11	10/17/17 17:32
720-82620-26	MM-S-68-00	Solid	10/10/17 08:19	10/17/17 17:32
720-82620-27	MM-S-69-00	Solid	10/10/17 08:27	10/17/17 17:32
720-82620-29	MM-S-70-00	Solid	10/10/17 08:34	10/17/17 17:32
720-82620-30	MM-S-70-1.0	Solid	10/10/17 16:30	10/17/17 17:32
720-82620-31	MM-S-71-00	Solid	10/10/17 08:46	10/17/17 17:32
720-82620-32	MM-S-71-0.5	Solid	10/10/17 16:25	10/17/17 17:32
720-82620-33	MM-S-72-00	Solid	10/10/17 08:54	10/17/17 17:32
720-82620-35	MM-S-73-00	Solid	10/10/17 09:14	10/17/17 17:32
720-82620-36	MM-S-74-00	Solid	10/10/17 09:19	10/17/17 17:32
720-82620-37	MM-S-75-00	Solid	10/10/17 09:25	10/17/17 17:32
720-82620-39	MM-S-76-00	Solid	10/10/17 09:32	10/17/17 17:32
720-82620-40	MM-S-77-00	Solid	10/10/17 09:36	10/17/17 17:32
720-82620-41	MM-S-78-00	Solid	10/10/17 09:50	10/17/17 17:32
720-82620-42	MM-S-79-00	Solid	10/10/17 09:57	10/17/17 17:32
720-82620-44	MM-S-81-00	Solid	10/10/17 10:19	10/17/17 17:32
720-82620-45	MM-S-82-00	Solid	10/10/17 10:27	10/17/17 17:32
720-82620-46	MM-S-82-0.5	Solid	10/10/17 15:15	10/17/17 17:32
720-82620-49	MM-S-84-00	Solid	10/10/17 10:41	10/17/17 17:32
720-82620-50	MM-S-85-00	Solid	10/10/17 10:52	10/17/17 17:32
720-82620-52	MM-S-86-00	Solid	10/10/17 10:58	10/17/17 17:32
720-82620-53	MM-S-86-0.5	Solid	10/10/17 15:43	10/17/17 17:32
720-82620-54	MM-S-87-00	Solid	10/10/17 11:25	10/17/17 17:32
720-82620-55	MM-S-87-1.0	Solid	10/10/17 17:18	10/17/17 17:32
720-82620-57	MM-S-88-00	Solid	10/10/17 11:34	10/17/17 17:32
720-82620-59	MM-S-92-00	Solid	10/10/17 12:03	10/17/17 17:32
720-82620-60	MM-S-93-00	Solid	10/10/17 12:13	10/17/17 17:32
720-82620-61	MM-S-94-00	Solid	10/10/17 12:27	10/17/17 17:32
720-82620-63	MM-S-96-00	Solid	10/10/17 12:42	10/17/17 17:32
720-82620-64	MM-S-97-00	Solid	10/10/17 12:49	10/17/17 17:32
720-82620-65	MM-S-98-00	Solid	10/10/17 12:55	10/17/17 17:32
720-82620-66	MM-S-99-00	Solid	10/10/17 13:04	10/17/17 17:32

Sample Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-82620-67	MM-S-100-00	Solid	10/10/17 13:20	10/17/17 17:32
720-82620-68	MM-S-101-00	Solid	10/10/17 14:22	10/17/17 17:32
720-82620-71	MM-S-105-00	Solid	10/13/17 11:05	10/17/17 17:32
720-82620-72	MM-S-105-3.5	Solid	10/13/17 11:06	10/17/17 17:32
720-82620-73	MM-S-106-00	Solid	10/13/17 11:34	10/17/17 17:32
720-82620-74	MM-S-106-2.0	Solid	10/13/17 11:37	10/17/17 17:32
720-82620-75	MM-S-107-00	Solid	10/13/17 11:58	10/17/17 17:32
720-82620-76	MM-S-107-1.0	Solid	10/13/17 12:00	10/17/17 17:32
720-82620-77	MM-S-108-00	Solid	10/13/17 12:27	10/17/17 17:32
720-82620-78	MM-S-46-3.8	Solid	10/13/17 10:18	10/17/17 17:32
720-82620-80	MM-S-28-0.5	Solid	10/10/17 17:09	10/17/17 17:32
720-82620-81	MM-S-40-00	Solid	10/09/17 13:19	10/17/17 17:32
720-82620-82	MM-S-41-00	Solid	10/09/17 13:46	10/17/17 17:32
720-82620-83	MM-S-57-00	Solid	10/09/17 16:25	10/17/17 17:32
720-82620-84	MM-S-80-00	Solid	10/10/17 10:07	10/17/17 17:32
720-82620-94	MM-S-30-1.5	Solid	10/11/17 12:12	10/17/17 17:32
720-82620-95	MM-S-32-0.5	Solid	10/11/17 11:58	10/17/17 17:32
720-82620-101	MM-S-12-0.5	Solid	10/11/17 08:02	10/17/17 17:32
720-82620-102	MM-S-24-0.5	Solid	10/11/17 07:46	10/17/17 17:32

0.4°C, 1.1°C, 1.7°C, 1.1°C, 1.0°C | 79051

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 2017-0115

Date 10/17/17 Page 1 of 12

Report To

Attn: Caitlin Gorman
Company: ERRG
Address: 115 ~~San Francisco~~ Sansome St #200
Email: caitlin.gorman@errg.com
Bill To: MTZ
Sampled By: CG / MF
Attn: Caitlin Gorman
Phone: 415.425.2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	~~CAM17 Metals~~ (EPA 6010/7470/7471) Hg ONLY	Metals: ☒ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: AS ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
1 MM-S-44-2.0	10/11/17	1521	Soil	N/A									X	X										
2 MM-S-45-0.5 (*)	↓	1149	↓	↓									X	X										
3 MM-S-46-2.0	↓	1229	↓	↓									X	X										
MM-S-51-00	10/11/17	1523											X	X										
MM-S-50-00	↓	1515											X	X										
MM-S-49-00		1505											X	X										
MM-S-48-00		1459											X	X										
MM-S-47-00		1447											X	X										
9 MM-S-52-00		1547											X	X										
10 MM-S-53-00	↓	1556	↓	↓									X	X										

720-82620 Chain of Custody

Project Info.

Project Name/ #: 2017-0115 Mammoth Mill
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space: N/A
Temp: 0.4, 1.1, 1.7, 1.1, 1.0°C

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
(*) HOLD SAMPLE

See Terms and Conditions on reverse.

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mari Fromstein — Time: 1155	Signature: [illegible] — Time: 1410	Signature — Time
Printed Name: Mari Fromstein — Date: 10/17/17	Printed Name: Rod — Date: 10/17	Printed Name — Date
Company: ERRG	Company: TA	Company

1) Received by:	2) Received by:	3) Received by:
Signature: [illegible] — Time: 1155	Signature: [illegible] — Time: 1410	Signature — Time
Printed Name: Robert — Date: 10/17/17	Printed Name: Michael A — Date: 10-17-17	Printed Name — Date
Company: TA	Company: TA	Company

Rev. 10/20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 2017 0115

Date 10/17/17 Page 2 of 12

Report To

Attn: C Gorman
Company: ERRG
Address: 115 Sansome
Email: Caitlin.gorman@errg.com
Bill To:
Attn:
Sampled By: CG/MF
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	~~CAM17 Metals~~ ~~(EPA 6010B/7470/7471)~~ Hg ONLY	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: AS ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
11 MM-S-54-00	10/9/17	1605	Soil	N/A									X	X									
12 MM-S-55-00	10/9/17	1611											X	X									
13 MM-S-56-1.0	10/10/17	1754											X	X									
MM-S-58-00	10/9/17	1630											X	X									
MM-S-59-00		1636											X	X									
MM-S-60-00		1645											X	X									
MM-S-61-00		1655											X	X									
MM-S-62-00		1706											X	X									
14 MM-S-63-00		1716											X	X									
MM-S-63-0 (*)	10/10/17	1733											X	X									

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
(*) HOLD SAMPLE

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mari Fromstein Time:	Signature: Time: 1410	Signature: Time:
Printed Name: Mari Fromstein Date: 1155	Printed Name: Robert Date: 10/17/17	Printed Name: Date:
Company: ERRG Date: 10/17/17	Company: TA	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: Time: 1155	Signature: Time: 1410	Signature: Time:
Printed Name: Robert Date: 10/17/17	Printed Name: Michael A Date: 10-17-17	Printed Name: Date:
Company: TA	Company: TA	Company:

Rev.10/20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 3 of 12

Report To

Attn: C GORMAN
Company: ERRG
Address: 115 Sansome #200
Email: caitlin.gorman@erg.com
Bill To:
Attn.:
Sampled By: CG/MF
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) Hg ONLY	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: Hg ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
21 MM-S-64-00	10/9/17	1724	Soil	N/A									X	X									
22 MM-S-64-0.5 (*)	10/10/17	1654											X	X									
23 MM-S-65-00	10/9/17	1730											X	X									
24 MM-S-66-00	10/9/17	1738											X	X									
25 MM-S-67-00	10/10/17	0811											X	X									
26 MM-S-68-00		0819											X	X									
27 MM-S-69-00		0827											X	X									
28 MM-S-69-0.5 (*)		1643											X	X									
29 MM-S-70-00		0834											X	X									
30 MM-S-70-0.0		1630											X	X									

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
(*) HOLD SAMPLE

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mari Fromstein	Signature: [illegible]	Signature:
Time:	Time: 1410	Time:
Printed Name: Mari Fromstein	Printed Name: Robert	Printed Name:
Date: 1155	Date: 10/17/17	Date:
Company: ERRG	Company: TA	Company:
Date: 10/17/17		

1) Received by:	2) Received by:	3) Received by:
Signature: [illegible]	Signature: [illegible]	Signature:
Time: 1155	Time: 1410	Time:
Printed Name: Robert	Printed Name: Michael A	Printed Name:
Date: 10/17/17	Date: 10-11-17	Date:
Company: TA	Company: TA	Company:

Rev 10/20

10/24/2017

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 4 of 12

Report To

Attn: C GORMAN
Company: ERRG
Address: 115 Sansome #200
Email: Cathia.gorman@errg.com
Bill To:
Attn.:
Sampled By: CG/MF
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) Hg ONLY	Metals: ☒ 6010B ☐ 2007 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: As ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
MM-S-71-00	10/10/17	0846	Soil	N/A									X	X									
MM-S-71-0.5	↓	1625	↓	↓									↓	↓									
MM-S-72-00		0854																					
MM-S-72-0.5 (*)		1616																					
MM-S-73-00		0911																					
MM-S-74-00		0919																					
MM-S-75-00'		0925																					
MM-S-75-0 (*)		1608																					
MM-S-76-00		0932																					
MM-S-77-00	↓	0936	↓	↓									↓	↓									

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
(*) HOLD SAMPLE

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mark Fromstein — Time:	Signature: — Time: 1410	Signature — Time
Printed Name: Mark Fromstein — Date: 1155	Printed Name: Robert — Date: 10/17/17	Printed Name — Date
Company: ERRG — 10/17/17	Company: TA	Company

1) Received by:	2) Received by:	3) Received by:
Signature: — Time: 1155	Signature: Michael Alte — Time: 1410	Signature — Time
Printed Name: Robert — Date: 10/17/17	Printed Name: Michael A — Date: 10-17-17	Printed Name — Date
Company: TA	Company: TA	Company

Rev.10/20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 5 of 12

Report To

Attn: C Gorman
Company: ERRG
Address: 115 San Jose #200
Email: caitlin.gorman@errg.com
Bill To:
Attn:
Sampled By: CG/MF
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B. ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	~~CAM17 Metals~~ (EPA ~~6010/~~7470/7471) Hg ONLY	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: As ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
41 MM-S-78-00	10/10/17	0950	Soil	N/A									X	X										
42 MM-S-79-00	↓	0957	↓	↓									X	X										
43 MM-S-80-0.5 (*)		1536											X	X										
44 MM-S-81-00		1019											X	X										
45 MM-S-82-00		1027											X	X										
46 MM-S-82-0.5		1515											X	X										
47 MM-S-83-00 (*)		1034											X	X										
48 MM-S-83-0.5 (*)		1522											X	X										
49 MM-S-84-00		1041											X	X										
50 MM-S-85-00	↓	1052	↓	↓									X	X										

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
(*) HOLD SAMPLE

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mari Fromstein	Signature: [signature]	Signature:
Time:	Time: 1410	Time:
Printed Name: Mari Fromstein	Printed Name: Robert	Printed Name:
Date: 1155	Date: 10/17/17	Date:
Company: ERRG	Company: TA	Company:
Date: 10/17/17		

1) Received by:	2) Received by:	3) Received by:
Signature: [signature]	Signature: Michael A Cole	Signature:
Time: 1155	Time: 1410	Time:
Printed Name: Robert	Printed Name: Michael A	Printed Name:
Date: 10/17/17	Date: 10-17-17	Date:
Company: TA	Company: TA	Company:

Rev.10/20

10/24/2017

TestAmerica
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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 6 of 12

Report To

Attn: C GORMAN
Company: ERRG
Address: 115 Sansome #200
Email: Caitlin.gorman@erg.com
Bill To
Attn
Sampled By: CG / MF
Phone: 415-425-2073

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	~~CAM17 Metals~~ Hg (EPA 6010/7470/7471) ONLY	Metals: ☒ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: AS ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	CCD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
MM-S-85-0.5 ⊛	10/10/17	1550	Soil	N/A									X	X									
MM-S-86-00	↓	1058	↓	↓									↓	↓									
MM-S-86-0.5		1543																					
MM-S-87-00		1125																					
MM-S-87-10		1718																					
MM-S-88-0.5 ⊛		1730																					
MM-S-88-00		1134																					
MM-S-89-00 ⊛	↓	1142	↓	↓										↓									
~~MM-S-89-0.5~~	↓	1347	↓	↓																			
~~MM-S-90-00~~	↓	1151	↓	↓																			

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____
⊛ HOLD SAMPLE

Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Micah Fromstein — Time:	Signature: — Time: 1410	Signature — Time
Printed Name: MOH Fromstein — Date: 1155	Printed Name: Robert — Date: 10/17/17	Printed Name — Date
Company: ERRG — 10/17/17	Company: TA	Company

1) Received by:	2) Received by:	3) Received by:
Signature: — Time: 1155	Signature: — Time: 1410	Signature — Time
Printed Name: Robert — Date: 10/17/7	Printed Name: Michael A — Date: 10-17-17	Printed Name — Date
Company: TA	Company: TA	Company

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 7 of 12

Report To

Attn: C GORMAN
Company: ERRG
Address: 115 Sansome #200
Email: caitlin.gorman@errg.com
Bill To:
Sampled By: CG / MF
Attn:
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	~~CAM17 Metals~~ As + Hg (EPA 6010/7470/7471) ONLY	Metals: ☒ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: As ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			
~~MM-S-91-00~~	~~10/10/17~~	~~1155~~	~~Soil~~	~~N/A~~									~~X~~											~~8~~
MM-S-92-00	10/10/17	1203	Soil	N/A									X	X										
MM-S-93-00	10/10/17	1213	↓	↓									X	X										
MM-S-94-00	↓	1227	↓	↓									X	X										
MM-S-95-00	↓	1234	↓	↓									X	X										
MM-S-96-00	↓	1242	↓	↓									X	X										
MM-S-97-00	↓	1249	↓	↓									X	X										
MM-S-98-00	↓	1255	↓	↓									X	X										
MM-S-99-00	↓	1304	↓	↓									X	X										
MM-S-100-00	↓	1320	↓	↓									X	X										

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
HOLD SAMPLE

See Terms and Conditions on reverse

1) Relinquished by:
Signature: Mari Fromstein — Time: 1155
Printed Name: Mari Fromstein — Date: 1155
Company: ERRG — 10/17/17

2) Relinquished by:
Signature: [illegible] — Time: 1410
Printed Name: [illegible] — Date: 10/17/17
Company: TA

3) Relinquished by:
Signature — Time
Printed Name — Date
Company

1) Received by:
Signature: [illegible] — Time: 1155 / 1415
Printed Name: Robert — Date: 10/17/17
Company: TA

2) Received by:
Signature: [illegible] — Time: 1410
Printed Name: Michael A — Date: 10-17-17
Company: TA

3) Received by:
Signature — Time
Printed Name — Date
Company

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10/24/2017

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 8 of 12

Report To

Attn: Caitlin Gorman
Company: ERRG
Address: 115 Sansome St, San Francisco, CA
Email: caitlin.gorman@errg.com
Bill To:
Sampled By: CG/MF
Attn:
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	~~CAM17 Metals~~ As → Hg (EPA 6010/7470/7471) ONLY	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: AS ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ___ ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			
MM-S-101-00	10/10/17	1122	Soil	N/A									X	X										
MM-S-102-00	↓	1437	↓	↓									X	X										
MM-S-103-00	↓	1443											X	X										
MM-S-105-00	10/13/17	1105											X	X										
MM-S-105-3.5	↓	1106											X	X										
MM-S-106-00	↓	1134											X	X										
MM-S-106-2.0	↓	1137											X	X										
MM-S-107-00	↓	1158											X	X										
MM-S-107-1.0	↓	1200											X	X										
MM-S-108-00	↓	1227											X	X										

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____
HOLD SAMPLE

Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mari Fromstein	Signature: [signature]	Signature
Time: 1155	Time: 1410	Time
Printed Name: Mari Fromstein	Printed Name: Robert	Printed Name
Date: 10/17/17	Date: 10/17/17	Date
Company: ERRG	Company: TA	Company

1) Received by:	2) Received by:	3) Received by:
Signature: [signature]	Signature: Mari Costa	Signature
Time: R 1155 ~~1115~~	Time: 1410	Time
Printed Name: Robert	Printed Name: Michael A	Printed Name
Date: 10/17/17	Date: 10-17-17	Date
Company: TA	Company: TA	Company

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 2017 0115

Date 10/17/17 Page 9 of 12

Report To

Attn: Caitlin Gorman
Company: ERRG
Address: 115 Sansome St., San Francisco, CA 94104
Email: Caitlin.Gorman@erg.com
Bill To:
Sampled By: CG/MF
Attn:
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B. ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	~~CAM17 Metals (EPA 6010/7470/7471)~~ Hg ONLY	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: As ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ___ ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
MM-S-46-.5 S	10/13/17	1018	Soil	N/A									X	X									
~~MM-S-35-2.0~~	~~10/11/17~~	~~0938~~											~~X~~	~~X~~									~~CG 10/20/17~~
MM-S-28-0.5	10/10/17	1709											X	X									
MM-S-40-00	10/9/17	1319											X	X									
MM-S-41-00	↓	1346											X	X									
MM-S-57-00	↓	1625											X	X									
MM-S-80-00	10/10/17	1007											X	X									
MM-S-57-0.5	10/10/17	1022											X	X									

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
HOLD SAMPLE 10/24/2017

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mani Frohnstein	Signature: [illegible]	Signature:
Time:	Time: 1410	Time:
Printed Name: Mani Frohnstein	Printed Name: Rob	Printed Name:
Date: 1155	Date: 10/17/17	Date:
Company: ERRG	Company: TA	Company:
Date: 10/17/17		

1) Received by:	2) Received by:	3) Received by:
Signature: [illegible]	Signature: [illegible]	Signature:
Time: ~~1150~~ 1165	Time: 1410	Time:
Printed Name: Robert	Printed Name: Michael A	Printed Name:
Date: 10/17/17	Date: 10-17-17	Date:
Company: TA	Company: TA	Company:

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 10 of 12

Report To

Attn: Caitlin Gorman
Company: ERRG
Address: 115 Sansome Street, SF, CA 94104
Email: caitlin.gorman@errg.com
Bill To:
Attn:
Sampled By: CG/MF
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	~~CAM17 Metals~~ (EPA ~~6010~~/7470/7471) Hg ONLY	Metals: ☒ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: AS ONLY	Metals. ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
86 MM-S-42-00 ⊛	10/9/17	1405	SOIL	N/A									X	X									
87 MM-S-43-00 ⊛	↓	1413	↓	↓									X	X									
88 MM-S-44-00 ⊛		1421											X	X									
89 MM-S-45 00 ⊛		1428											X	X									
90 MM-S-46-00 ⊛		1440											X	X									
91 MM-S-56-00 ⊛		1618											X	X									
~~MM-S-80-00~~	~~10/10/17~~	~~1007~~											X										
92 MM-S-90-00 ⊛	↓	1151											X	X									
93 MM-S-91-00 ⊛		1155											X	X									
~~MM-S-101-00~~		~~1922~~											X										

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
⊛ HOLD ALL SAMPLES

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mark Fromstein	Signature: [illegible]	Signature:
Time: 1155	Time: 1410	Time:
Printed Name: Mark Fromstein	Printed Name: Robert	Printed Name:
Date: 10/17/17	Date: 10/17/17	Date:
Company: ERRG	Company: TA	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [illegible]	Signature: [illegible]	Signature:
Time: 1155	Time: 1410	Time:
Printed Name: Robert	Printed Name: Michael A	Printed Name:
Date: 1155	Date: 10-17-17	Date:
Company: TA	Company: TA	Company:

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10/24/2017

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 2017 0105

Date 10/17/17 Page 11 of 12

Report To

Attn: Caitlin Gorman
Company: ERRG
Address: 115 Sansome St, San Francisco, CA 94104
Email: Caitlin.Gorman@errg.com
Bill To:
Sampled By: CG/MF
Attn:
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	Metals: ☒ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: Hg AS ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
MM-S-30-0.5	10/11/17	1212	Soil	N/A									X	X									
MM-S-32-0.5	10/11/17	1158	Soil										X	X									
MM-S-31-0.5		0918											X	X									
MM-S-34-1.0		0900											X	X									
MM-S-35-0.5		0843											X	X									
MM-S-15-0.5		0828											X	X									
MM-S-29-0.5		0815											X	X									
MM-S-12-0.5		0802											X	X									
MM-S-24-0.5		0746											X	X									

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
(*) HOLD SAMPLE

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mari Fronstein	Signature: [illegible]	Signature:
Time:	Time: 1410	Time:
Printed Name: Mari Fronstein	Printed Name: Robert	Printed Name:
Date: 1155	Date: 10/17/17	Date:
Company: ERRG	Company: TA	Company:
Date: 10/17/17		

1) Received by:	2) Received by:	3) Received by:
Signature: [illegible]	Signature: [illegible]	Signature:
Time: 1155	Time: 1410	Time:
Printed Name: Robert	Printed Name: Michael A	Printed Name:
Date: 10/17/17	Date: 10-17-17	Date:
Company: TA	Company: TA	Company:

Rev. 10/20

10/24/2017

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 12 of 12

Report To

Attn: Caitlin Gorman
Company: ERRG
Address: 115 Sansome St #200 San Francisco, CA 94104
Email: caitlin.gorman@errg.com
Bill To:
Attn:
Sampled By: CG/MF
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	~~CAM17 Metals~~ (EPA 6010/7470/7471) Hg only	Metals: ☒ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: As only	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ___ ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
MM-S-101-0.5 (*)	10/11/17	1142	Soil	N/A									X	X										
MM-S-57-1.0 (*)	10/10/17	1810											X	X										
MM-S-21-0.5 (*)	↓	1528											X	X										
MM-S-22-0.5 (*)		1600											X	X										
MM-S-81-0.5 (*)		1515											X	X										
MM-S-55-1.0 (*)	↓	1745											X	X										
MM-S-53-2.0 (*)	10/11/17	0938											X	X										
MM-S-89-0.5 (*)	↓	1549											X	X										
MM-S-108-1.0 (*)	↓	1230											X	X										

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:

Sample Receipt

# of Containers:
Head Space:
Temp:

Credit Card Y/N: If yes, please call with payment information ASAP

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
(*) HOLD ALL SAMPLES

See Terms and Conditions on reverse

1) Relinquished by: Mario Frankstein
Signature — Time
Mario Frankstein 1155
Printed Name — Date
ERRG 10/17/17
Company

2) Relinquished by: [signature] 1410
Signature — Time
Robert 10/17/17
Printed Name — Date
TA
Company

3) Relinquished by:
Signature — Time
Printed Name — Date
Company

1) Received by: [signature] 1155
Signature — Time
Robert 10/17/17
Printed Name — Date
TA
Company

2) Received by: [signature] 1410
Signature — Time
Michael A 10.17.17
Printed Name — Date
TA
Company

3) Received by:
Signature — Time
Printed Name — Date
Company

Rev. 10/20

Login Sample Receipt Checklist

Client: Engineering Remediation Resources Group.

Job Number: 720-82620-1

Login Number: 82620
List Number: 1
Creator: Alcantara, Michael A

List Source: TestAmerica Pleasanton

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.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	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

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-82620-2
Client Project/Site: Mammoth Mill

For:
Engineering Remediation Resources Group.
4585 Pacheco Boulevard
Suite 200
Martinez, California 94553-2233

Attn: Ms. Caitlin Gorman

Authorized for release by:
11/15/2017 4:51:32 PM

Micah Smith, Project Manager II
(916)374-4302
micah.smith@testamericainc.com

LINKS

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www.testamericainc.com

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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Definitions/Glossary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Qualifiers

Metals

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Job ID: 720-82620-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-82620-2

Comments
No additional comments.

Receipt
The samples were received on 10/17/2017 5:32 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.4º C, 1.0º C, 1.1º C, 1.1º C and 1.7º C.

Receipt Exceptions
The time on sample MM-S-44-2.0 does not match COC. The COC shows time as 1521 and the jar shows 1321. The sample was logged in with the time listed on the COC.

Metals
Method(s) 7471A: The following samples was analyzed outside of analytical holding time upon client request: MM-S-88-0.5 (720-82620-56), MM-S-42-00 (720-82620-86), MM-S-43.00 (720-82620-87), MM-S-44-00 (720-82620-88), MM-S-91-00 (720-82620-93), MM-S-35-0.5 (720-82620-98) and MM-S-108-1.0 (720-82620-111).

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

Detection Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Client Sample ID: MM-S-88-0.5 — Lab Sample ID: 720-82620-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		4.0	0.34	mg/Kg	4		6010B	Total/NA
Mercury	19	H	1.6	0.24	mg/Kg	100		7471A	Total/NA

Client Sample ID: MM-S-42-00 — Lab Sample ID: 720-82620-86

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	75		3.4	0.29	mg/Kg	4		6010B	Total/NA
Mercury	270	H	16	2.3	mg/Kg	1000		7471A	Total/NA

Client Sample ID: MM-S-43.00 — Lab Sample ID: 720-82620-87

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	17		3.5	0.30	mg/Kg	4		6010B	Total/NA
Mercury	81	H	1.6	0.24	mg/Kg	100		7471A	Total/NA

Client Sample ID: MM-S-44-00 — Lab Sample ID: 720-82620-88

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		4.0	0.34	mg/Kg	4		6010B	Total/NA
Mercury	26	H	1.6	0.24	mg/Kg	100		7471A	Total/NA

Client Sample ID: MM-S-91-00 — Lab Sample ID: 720-82620-93

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10		3.3	0.28	mg/Kg	4		6010B	Total/NA
Mercury	19	H	1.6	0.24	mg/Kg	100		7471A	Total/NA

Client Sample ID: MM-S-35-0.5 — Lab Sample ID: 720-82620-98

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		3.3	0.28	mg/Kg	4		6010B	Total/NA
Mercury	3.2	H	0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: MM-S-108-1.0 — Lab Sample ID: 720-82620-111

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	34		2.9	0.25	mg/Kg	4		6010B	Total/NA
Mercury	1.1	H	0.017	0.0025	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Client Sample ID: MM-S-88-0.5

Lab Sample ID: 720-82620-56

Date Collected: 10/10/17 17:30

Matrix: Solid

Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		4.0	0.34	mg/Kg		11/09/17 14:53	11/10/17 10:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	19	H	1.6	0.24	mg/Kg		11/14/17 10:42	11/14/17 15:06	100

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Client Sample ID: MM-S-42-00

Lab Sample ID: 720-82620-86

Date Collected: 10/09/17 14:05

Matrix: Solid

Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	75		3.4	0.29	mg/Kg		11/09/17 14:53	11/10/17 10:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	270	H	16	2.3	mg/Kg		11/14/17 10:42	11/14/17 15:08	1000

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Client Sample ID: MM-S-43.00

Lab Sample ID: 720-82620-87

Date Collected: 10/09/17 14:13

Matrix: Solid

Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17		3.5	0.30	mg/Kg		11/09/17 14:53	11/10/17 10:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	81	H	1.6	0.24	mg/Kg		11/14/17 10:42	11/14/17 14:26	100

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Client Sample ID: MM-S-44-00

Lab Sample ID: 720-82620-88

Date Collected: 10/09/17 14:21

Matrix: Solid

Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		4.0	0.34	mg/Kg		11/09/17 14:53	11/10/17 10:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	26	H	1.6	0.24	mg/Kg		11/14/17 10:42	11/14/17 14:28	100

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Client Sample ID: MM-S-91-00

Lab Sample ID: 720-82620-93

Date Collected: 10/10/17 11:55

Matrix: Solid

Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		3.3	0.28	mg/Kg		11/09/17 14:53	11/10/17 10:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	19	H	1.6	0.24	mg/Kg		11/14/17 10:42	11/14/17 15:10	100

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Client Sample ID: MM-S-35-0.5

Lab Sample ID: 720-82620-98

Date Collected: 10/11/17 08:43

Matrix: Solid

Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		3.3	0.28	mg/Kg		11/09/17 14:53	11/10/17 10:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.2	H	0.15	0.022	mg/Kg		11/14/17 10:42	11/14/17 14:33	10

Client Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Client Sample ID: MM-S-108-1.0

Lab Sample ID: 720-82620-111

Date Collected: 10/11/17 12:30

Matrix: Solid

Date Received: 10/17/17 17:32

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	34		2.9	0.25	mg/Kg		11/09/17 14:53	11/10/17 11:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1	H	0.017	0.0025	mg/Kg		11/14/17 10:42	11/14/17 13:32	1

QC Sample Results

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-233778/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 233838 — **Prep Batch: 233778**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.085	mg/Kg		11/09/17 14:53	11/10/17 09:07	1

Lab Sample ID: LCS 720-233778/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 233838 — **Prep Batch: 233778**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	48.7		mg/Kg		97	80 - 120

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-233794/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 234059 — **Prep Batch: 233794**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		11/14/17 10:42	11/14/17 12:52	1

Lab Sample ID: LCS 720-233794/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 234059 — **Prep Batch: 233794**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.769		mg/Kg		92	80 - 120

QC Association Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Metals

Prep Batch: 233778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-56	MM-S-88-0.5	Total/NA	Solid	3050B	
720-82620-86	MM-S-42-00	Total/NA	Solid	3050B	
720-82620-87	MM-S-43.00	Total/NA	Solid	3050B	
720-82620-88	MM-S-44-00	Total/NA	Solid	3050B	
720-82620-93	MM-S-91-00	Total/NA	Solid	3050B	
720-82620-98	MM-S-35-0.5	Total/NA	Solid	3050B	
720-82620-111	MM-S-108-1.0	Total/NA	Solid	3050B	
MB 720-233778/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-233778/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 233794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-56	MM-S-88-0.5	Total/NA	Solid	7471A	
720-82620-86	MM-S-42-00	Total/NA	Solid	7471A	
720-82620-87	MM-S-43.00	Total/NA	Solid	7471A	
720-82620-88	MM-S-44-00	Total/NA	Solid	7471A	
720-82620-93	MM-S-91-00	Total/NA	Solid	7471A	
720-82620-98	MM-S-35-0.5	Total/NA	Solid	7471A	
720-82620-111	MM-S-108-1.0	Total/NA	Solid	7471A	
MB 720-233794/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-233794/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 233838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-56	MM-S-88-0.5	Total/NA	Solid	6010B	233778
720-82620-86	MM-S-42-00	Total/NA	Solid	6010B	233778
720-82620-87	MM-S-43.00	Total/NA	Solid	6010B	233778
720-82620-88	MM-S-44-00	Total/NA	Solid	6010B	233778
720-82620-93	MM-S-91-00	Total/NA	Solid	6010B	233778
720-82620-98	MM-S-35-0.5	Total/NA	Solid	6010B	233778
720-82620-111	MM-S-108-1.0	Total/NA	Solid	6010B	233778
MB 720-233778/1-A	Method Blank	Total/NA	Solid	6010B	233778
LCS 720-233778/2-A	Lab Control Sample	Total/NA	Solid	6010B	233778

Analysis Batch: 234059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82620-56	MM-S-88-0.5	Total/NA	Solid	7471A	233794
720-82620-86	MM-S-42-00	Total/NA	Solid	7471A	233794
720-82620-87	MM-S-43.00	Total/NA	Solid	7471A	233794
720-82620-88	MM-S-44-00	Total/NA	Solid	7471A	233794
720-82620-93	MM-S-91-00	Total/NA	Solid	7471A	233794
720-82620-98	MM-S-35-0.5	Total/NA	Solid	7471A	233794
720-82620-111	MM-S-108-1.0	Total/NA	Solid	7471A	233794
MB 720-233794/1-A	Method Blank	Total/NA	Solid	7471A	233794
LCS 720-233794/2-A	Lab Control Sample	Total/NA	Solid	7471A	233794

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Client Sample ID: MM-S-88-0.5 — Lab Sample ID: 720-82620-56

Date Collected: 10/10/17 17:30 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			233778	11/09/17 14:53	AAP	TAL PLS
Total/NA	Analysis	6010B		4	233838	11/10/17 10:31	BKR	TAL PLS
Total/NA	Prep	7471A			233794	11/14/17 10:42	JNG	TAL PLS
Total/NA	Analysis	7471A		100	234059	11/14/17 15:06	OBI	TAL PLS

Client Sample ID: MM-S-42-00 — Lab Sample ID: 720-82620-86

Date Collected: 10/09/17 14:05 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			233778	11/09/17 14:53	AAP	TAL PLS
Total/NA	Analysis	6010B		4	233838	11/10/17 10:36	BKR	TAL PLS
Total/NA	Prep	7471A			233794	11/14/17 10:42	JNG	TAL PLS
Total/NA	Analysis	7471A		1000	234059	11/14/17 15:08	OBI	TAL PLS

Client Sample ID: MM-S-43.00 — Lab Sample ID: 720-82620-87

Date Collected: 10/09/17 14:13 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			233778	11/09/17 14:53	AAP	TAL PLS
Total/NA	Analysis	6010B		4	233838	11/10/17 10:41	BKR	TAL PLS
Total/NA	Prep	7471A			233794	11/14/17 10:42	JNG	TAL PLS
Total/NA	Analysis	7471A		100	234059	11/14/17 14:26	OBI	TAL PLS

Client Sample ID: MM-S-44-00 — Lab Sample ID: 720-82620-88

Date Collected: 10/09/17 14:21 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			233778	11/09/17 14:53	AAP	TAL PLS
Total/NA	Analysis	6010B		4	233838	11/10/17 10:46	BKR	TAL PLS
Total/NA	Prep	7471A			233794	11/14/17 10:42	JNG	TAL PLS
Total/NA	Analysis	7471A		100	234059	11/14/17 14:28	OBI	TAL PLS

Client Sample ID: MM-S-91-00 — Lab Sample ID: 720-82620-93

Date Collected: 10/10/17 11:55 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			233778	11/09/17 14:53	AAP	TAL PLS
Total/NA	Analysis	6010B		4	233838	11/10/17 10:51	BKR	TAL PLS
Total/NA	Prep	7471A			233794	11/14/17 10:42	JNG	TAL PLS

Lab Chronicle

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Client Sample ID: MM-S-91-00 — Lab Sample ID: 720-82620-93

Date Collected: 10/10/17 11:55 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		100	234059	11/14/17 15:10	OBI	TAL PLS

Client Sample ID: MM-S-35-0.5 — Lab Sample ID: 720-82620-98

Date Collected: 10/11/17 08:43 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			233778	11/09/17 14:53	AAP	TAL PLS
Total/NA	Analysis	6010B		4	233838	11/10/17 10:56	BKR	TAL PLS
Total/NA	Prep	7471A			233794	11/14/17 10:42	JNG	TAL PLS
Total/NA	Analysis	7471A		10	234059	11/14/17 14:33	OBI	TAL PLS

Client Sample ID: MM-S-108-1.0 — Lab Sample ID: 720-82620-111

Date Collected: 10/11/17 12:30 — **Matrix: Solid**
Date Received: 10/17/17 17:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			233778	11/09/17 14:53	AAP	TAL PLS
Total/NA	Analysis	6010B		4	233838	11/10/17 11:12	BKR	TAL PLS
Total/NA	Prep	7471A			233794	11/14/17 10:42	JNG	TAL PLS
Total/NA	Analysis	7471A		1	234059	11/14/17 13:32	OBI	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-18

Method Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

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

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Engineering Remediation Resources Group.
Project/Site: Mammoth Mill

TestAmerica Job ID: 720-82620-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-82620-56	MM-S-88-0.5	Solid	10/10/17 17:30	10/17/17 17:32
720-82620-86	MM-S-42-00	Solid	10/09/17 14:05	10/17/17 17:32
720-82620-87	MM-S-43.00	Solid	10/09/17 14:13	10/17/17 17:32
720-82620-88	MM-S-44-00	Solid	10/09/17 14:21	10/17/17 17:32
720-82620-93	MM-S-91-00	Solid	10/10/17 11:55	10/17/17 17:32
720-82620-98	MM-S-35-0.5	Solid	10/11/17 08:43	10/17/17 17:32
720-82620-111	MM-S-108-1.0	Solid	10/11/17 12:30	10/17/17 17:32

Smith, Micah

From: Caitlin Gorman <caitlin.gorman@errg.com>
Sent: Thursday, November 09, 2017 12:16 PM
To: Smith, Micah
Subject: RE: TestAmerica invoice, report and EDD files from 720-82620-1 Mammoth Mill

-External Email-

Hello Micah,
Here is the list of held samples we would like to run for As and Hg, please continue to hold all others.
I recognize that all of these are just past the 38-day hold time for Hg already so I expect you will flag them.
Please analyze as soon as possible.

MM-S-88-0.5 (collected 10/10/17 at 1730)
MM-S-57-00 (collected 10/9/17 at 1625)
MM-S-42-00 (collected 10/9/17 at 1405)
MM-S-43-00 (collected 10/9/17 at 1413)
MM-S-44-00 (collected 10/9/17 at 1421)
MM-S-91-00 (collected 10/10/17 at 1155)
MM-S-35-0.5 (Collected 10/11/17 at 0843)
MM-S-108-1.0 (collected 10/11/17 at 1230)

From: Smith, Micah [mailto:Micah.Smith@testamericainc.com]
Sent: Thursday, November 9, 2017 10:46 AM
To: Caitlin Gorman <caitlin.gorman@errg.com>
Subject: RE: TestAmerica invoice, report and EDD files from 720-82620-1 Mammoth Mill

Caitlin,
The mercury is outside of holding time for most samples. The ones collected the 13th expire tomorrow. The 6010B is well within holding time. An email list is fine.
Thank you

SHIPPING ALERT: Thanksgiving Day, Thursday November 23rd 2017

For the upcoming Thanksgiving holiday (observed Thursday, November 23rd) FedEx and UPS will not have scheduled service on Thursday November 23rd.

If you have BODs being sampled November 17th, 18th or 19th or short hold samples arriving Wednesday, November 22nd, Friday November 24th or on the weekend, we ask that you contact your Project Manager in advance to ensure your samples meet all holding time criteria.

We are thankful for your business and hope that you have a wonderful and safe holiday!

MICAH SMITH
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1220 Quarry lane
Pleasanton, CA 94566
Phone: 925.484.1919 x137

880 Riverside Parkway
West Sacramento, CA 95605
Tel 916 374-4302 Direct
916 373-5600 Main | Fax 916 379-1059

www.testamericainc.com

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

---

From: Caitlin Gorman [mailto:caitlin.gorman@errg.com]
Sent: Thursday, November 09, 2017 10:04 AM
To: Smith, Micah
Subject: RE: TestAmerica invoice, report and EDD files from 720-82620-1 Mammoth Mill

-External Email-

Hello Micah,
We are planning to select a subset of the samples you are holding for this project and have you run them for the same analyses (As by 6010B and Hg by 7470/7471). I should have a final list of the samples we want to run by early next week.

I just wanted to confirm that we are still well within the holding times for these analyses before I send over the list of samples to run.

Also, do you need a new COC, or should I just note which samples we want to run on the existing (attached)?

Thanks,
Caitlin
From: Smith, Micah [mailto:micah.smith@testamericainc.com]
Sent: Tuesday, October 24, 2017 7:01 PM
To: Caitlin Gorman <caitlin.gorman@errg.com>
Subject: TestAmerica invoice, report and EDD files from 720-82620-1 Mammoth Mill

Hello,

Attached please find the invoice, report and EDD files for job 720-82620-1; Mammoth Mill

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

MICAH SMITH
Project Manager

TestAmerica Pleasanton
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 916.374.4302
www.testamericainc.com

Reference: [260688]
Attachments: 3

0.4°C, 1.1°C, 1.7°C, 1.1°C, 1.0°C | 79051

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 2017-0115

Date 10/17/17 Page 1 of 12

Report To

Attn: Caitlin Gorman
Company: ERRG
Address: 115 ~~San Francisco~~ Sansome St #200
Email: caitlin.gorman@errg.com
Bill To: MTZ
Sampled By: CA / MF
Attn: Caitlin Gorman
Phone: 415.425.2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	~~CAM17 Metals~~ (EPA 6010/7470/7471) Hg ONLY	Metals: ☒ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: AS ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
1 MM-S-44-2.0	10/11/17	1521	Soil	N/A									X	X										
2 MM-S-45-0.5 (*)	↓	1149	↓	↓									X	X										
3 MM-S-46-2.0	↓	1229	↓	↓									X	X										
4 MM-S-51-00	10/11/17	1523											X	X										
5 MM-S-50-00	↓	1515											X	X										
6 MM-S-49-00		1505											X	X										
7 MM-S-48-00		1459											X	X										
8 MM-S-47-00		1447											X	X										
9 MM-S-52-00		1547											X	X										
10 MM-S-53-00	↓	1556	↓	↓									X	X										

720-82620 Chain of Custody

Project Info.

Project Name/ #: 2017-0115 Mammoth Mill
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space: N/A
Temp: 0.4, 1.1, 1.7, 1.1, 1.0°C

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
(*) HOLD SAMPLE

See Terms and Conditions on reverse.

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mari Fromstein — Time: 1155	Signature: [illegible] — Time: 1410	Signature — Time
Printed Name: Mari Fromstein — Date: 10/17/17	Printed Name: Rod — Date: 10/17	Printed Name — Date
Company: ERRG	Company: TA	Company

1) Received by:	2) Received by:	3) Received by:
Signature: [illegible] — Time: 1155	Signature: [illegible] — Time: 1410	Signature — Time
Printed Name: Robert — Date: 10/17/17	Printed Name: Michael A — Date: 10-17-17	Printed Name — Date
Company: TA	Company: TA	Company

Rev. 10/20

11/15/2017

TestAmerica
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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 2017 0115

Date 10/17/17 Page 2 of 12

Report To

Attn: C Gorman
Company: ERRG
Address: 115 Sansome
Email: Caitlin.gorman@errg.com
Bill To:
Attn:
Sampled By: CG/MF
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	~~CAM17 Metals~~ ~~(EPA 6010B/7470/7471)~~ Hg ONLY	Metals: ☒ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: AS ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ___ ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
11 MM-S-54-00	10/9/17	1605	Soil	N/A									X	X									
12 MM-S-55-00	10/9/17	1611											X	X									
13 MM-S-56-1.0	10/10/17	1754											X	X									
MM-S-58-00	10/9/17	1630											X	X									
MM-S-59-00		1636											X	X									
MM-S-60-00		1645											X	X									
MM-S-61-00		1655											X	X									
15 MM-S-62-00		1706											X	X									
14 MM-S-63-00		1716											X	X									
MM-S-63-0 (*)	10/10/17	1733											X	X									

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
(*) HOLD SAMPLE

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mari Fromstein Time:	Signature: Time: 1410	Signature: Time:
Printed Name: Mari Fromstein Date: 1155	Printed Name: Robert Date: 10/17/17	Printed Name: Date:
Company: ERRG Date: 10/17/17	Company: TA	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: Time: 1155	Signature: Time: 1410	Signature: Time:
Printed Name: Robert Date: 10/17/17	Printed Name: Michael A Date: 10-17-17	Printed Name: Date:
Company: TA	Company: TA	Company:

Rev.10/20

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 3 of 12

Report To

Attn: C GORMAN
Company: ERRG
Address: 115 Sansome #200
Email: caitlin.gorman@erg.com
Bill To:
Attn.:
Sampled By: CG/MF
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) Hg ONLY	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: B ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
21 MM-S-64-00	10/9/17	1724	Soil	N/A									X	X									
22 MM-S-64-0.5 (*)	10/10/17	1654											X	X									
23 MM-S-65-00	10/9/17	1730											X	X									
24 MM-S-66-00	10/9/17	1738											X	X									
25 MM-S-67-00	10/10/17	0811											X	X									
26 MM-S-68-00		0819											X	X									
27 MM-S-69-00		0827											X	X									
28 MM-S-69-0.5 (*)		1643											X	X									
29 MM-S-70-00		0834											X	X									
30 MM-S-70-0.0		1630											X	X									

Page 25 of 35

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
(*) HOLD SAMPLE

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mari Fromstein	Signature: [illegible]	Signature:
Time:	Time: 1410	Time:
Printed Name: Mari Fromstein	Printed Name: Robert	Printed Name:
Date: 1155	Date: 10/17/17	Date:
Company: ERRG	Company: TA	Company:
Date: 10/17/17		

1) Received by:	2) Received by:	3) Received by:
Signature: [illegible]	Signature: [illegible]	Signature:
Time: 1155	Time: 1410	Time:
Printed Name: Robert	Printed Name: Michael A	Printed Name:
Date: 10/17/17	Date: 10-11-17	Date:
Company: TA	Company: TA	Company:

Rev 10/20

11/15/2017

TestAmerica
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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 4 of 12

Report To

Attn: C GORMAN
Company: ERRG
Address: 115 Sansome #200
Email: Cathia.gorman@errg.com
Bill To:
Attn.:
Sampled By: CG/MF
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) Hg ONLY	Metals: ☒ 6010B ☐ 2007 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: As ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
MM-S-71-00	10/10/17	0846	Soil	N/A									X	X									
MM-S-71-0.5	↓	1625	↓	↓									↓	↓									
MM-S-72-00		0854																					
MM-S-72-0.5 (*)		1616																					
MM-S-73-00		0911																					
MM-S-74-00		0919																					
MM-S-75-00		0925																					
MM-S-75-0 (*)		1608																					
MM-S-76-00		0932																					
MM-S-77-00	↓	0936	↓	↓									↓	↓									

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
(*) HOLD SAMPLE

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mark Fromstein — Time: 1155	Signature: [illegible] — Time: 1410	Signature — Time
Printed Name: Mark Fromstein — Date: 1155	Printed Name: Robert — Date: 10/17/17	Printed Name — Date
Company: ERRG — 10/17/17	Company: TA	Company

1) Received by:	2) Received by:	3) Received by:
Signature: [illegible] — Time: 1155	Signature: [illegible] — Time: 1410	Signature — Time
Printed Name: Robert — Date: 10/17/17	Printed Name: Michael A — Date: 10-17-17	Printed Name — Date
Company: TA	Company: TA	Company

Rev.10/20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 5 of 12

Report To

Attn: C Gorman
Company: ERRG
Address: 115 Sansome #200
Email: caitlin.gorman@errg.com
Bill To:
Attn:
Sampled By: CG/MF
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B. ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	~~CAM17 Metals~~ (EPA ~~6010/~~7470/7471) Hg ONLY	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: As ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
41 MM-S-78-ØØ	10/10/17	0950	Soil	N/A									X	X										
42 MM-S-79-ØØ	↓	0957	↓	↓									X	X										
43 MM-S-80-Ø.5 ⊛		1536											X	X										
44 MM-S-81-ØØ		1019											X	X										
45 MM-S-82-ØØ		1027											X	X										
46 MM-S-82-Ø.5		1515											X	X										
47 MM-S-83-ØØ ⊛		1034											X	X										
48 MM-S-83-Ø.5 ⊛		1522											X	X										
49 MM-S-84-ØØ		1041											X	X										
50 MM-S-85-ØØ	↓	1052	↓	↓									X	X										

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
⊛ HOLD SAMPLE

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mari Fromstein — Time:	Signature: — Time: 1410	Signature — Time
Printed Name: Mari Fromstein — Date: 1155	Printed Name: Robert — Date: 10/17/17	Printed Name — Date
Company: ERRG — 10/17/17	Company: TA	Company

1) Received by:	2) Received by:	3) Received by:
Signature: — Time: 1155	Signature: Michael A — Time: 1410	Signature — Time
Printed Name: Robert — Date: 10/17/17	Printed Name: Michael A — Date: 10-17-17	Printed Name — Date
Company: TA	Company: TA	Company

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10/15/2017

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14 13 12 11 10 9 8 7 6 5 4 3 2 1

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 6 of 12

Report To

Attn: C GORMAN
Company: ERRG
Address: 115 Sansome #200
Email: Caitlin.gorman@erg.com
Bill To
Attn
Sampled By: CG / MF
Phone: 415-425-2073

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	~~CAM17 Metals~~ Hg (EPA 6010/7470/7471) ONLY	Metals: ☒ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: AS ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	CCD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
MM-S-85-0.5 ⊛	10/10/17	1550	Soil	N/A									X	X									
MM-S-86-00	↓	1058	↓	↓									↓	↓									
MM-S-86-0.5		1543																					
MM-S-87-00		1125																					
MM-S-87-10		1718																					
MM-S-88-0.5 ⊛		1730																					
MM-S-88-00		1134																					
MM-S-89-00 ⊛	↓	1142	↓	↓									↓	↓									
~~MM-S-89-0.5~~	↓	1349	↓	↓																			
~~MM-S-90-00~~	↓	1151	↓	↓																			

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____
⊛ HOLD SAMPLE

Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Michael Frankenstein — Time:	Signature: — Time: 1410	Signature — Time
Printed Name: MOM Frankenstein — Date: 1155	Printed Name: Robert — Date: 10/17/17	Printed Name — Date
Company: ERRG — 10/17/17	Company: TA	Company

1) Received by:	2) Received by:	3) Received by:
Signature: — Time: 1155	Signature: — Time: 1410	Signature — Time
Printed Name: Robert — Date: 10/17/7	Printed Name: Michael A — Date: 10-17-17	Printed Name — Date
Company: TA	Company: TA	Company

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TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 7 of 12

Report To

Attn: C GORMAN
Company: ERRG
Address: 115 Sansome #200
Email: caitlin.gorman@errg.com
Bill To:
Sampled By: CG / MF
Attn:
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	~~CAM17 Metals~~ As + Hg (EPA 6010/7470/7471) ONLY	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: As ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
~~MM-S-91-00~~	~~10/10/17~~	~~1155~~	~~Soil~~	~~N/A~~									X										
54 MM-S-92-00	10/10/17	1203	Soil	N/A									X	X									
55 MM-S-93-00	10/10/17	1213	↓	↓									X	X									
56 MM-S-94-00	↓	1227	↓	↓									X	X									
57 MM-S-95-00	↓	1234	↓	↓									X	X									
58 MM-S-96-00	↓	1242	↓	↓									X	X									
59 MM-S-97-00	↓	1249	↓	↓									X	X									
60 MM-S-98-00	↓	1255	↓	↓									X	X									
61 MM-S-99-00	↓	1304	↓	↓									X	X									
62 MM-S-100-00	↓	1320	↓	↓									X	X									

20170115

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
HOLD SAMPLE

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mari Fromstein	Signature:	Signature:
Time: 1155	Time: 1410	Time:
Printed Name: Mari Fromstein	Printed Name: Rob	Printed Name:
Date: 10/17/17	Date: 10/17/17	Date:
Company: ERRG	Company: TA	Company:

1) Received by:	2) Received by:	3) Received by:
Signature:	Signature:	Signature:
Time: R 1155 ~~1115~~	Time: 1410	Time:
Printed Name: Robert	Printed Name: Michael A	Printed Name:
Date: 10/17/17	Date: 10-17-17	Date:
Company: TA	Company: TA	Company:

10/18/2017

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 8 of 12

Report To

Attn: Caitlin Gorman
Company: ERRG
Address: 115 Sansome St, San Francisco, CA
Email: caitlin.gorman@errg.com
Bill To:
Sampled By: CG/MF
Attn:
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	~~CAM17 Metals~~ As → Hg (EPA 6010/7470/7471) ONLY	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: AS ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			
MM-S-101-00	10/10/17	1122	Soil	N/A									X	X										
MM-S-102-00	↓	1127	↓	↓									X	X										
MM-S-103-00	↓	1143											X	X										
MM-S-105-00	10/13/17	1105											X	X										
MM-S-105-3.5		1106											X	X										
MM-S-106-00		1134											X	X										
MM-S-106-2.0		1137											X	X										
MM-S-107-00		1158											X	X										
MM-S-107-1.0		1200											X	X										
MM-S-108-00	↓	1227	↓	↓									X	X										

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
HOLD SAMPLE

Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mari Fromstein	Signature: [illegible]	Signature:
Time: 1155	Time: 1410	Time:
Printed Name: Mari Fromstein	Printed Name: Robert	Printed Name:
Date: 10/17/17	Date: 10/17/17	Date:
Company: ERRG	Company: TA	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [illegible]	Signature: Mari Cole	Signature:
Time: R 1155 ~~1115~~	Time: 1410	Time:
Printed Name: Robert	Printed Name: Michael A	Printed Name:
Date: 10/17/17	Date: 10-17-17	Date:
Company: TA	Company: TA	Company:

Rev.10/20

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 2017 0115

Date 10/17/17 Page 9 of 12

Report To

Attn: Caitlin Gorman
Company: ERRG
Address: 115 Sansome St., San Francisco, CA 94104
Email: Caitlin.Gorman@erg.com
Bill To:
Sampled By: CG/MF
Attn:
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B. ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	~~CAM17 Metals (EPA 6010/7470/7471)~~ Hg ONLY	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: As ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ___ ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
MM-S-46-.5 S	10/13/17	1018	Soil	N/A									X	X									
~~MM-S-35-2.0~~	~~10/10/17~~	~~0938~~											~~X~~	~~X~~									~~CG 10/20/17~~
MM-S-28-0.5	10/10/17	1709											X	X									
MM-S-40-00	10/9/17	1319											X	X									
MM-S-41-00	↓	1346											X	X									
MM-S-57-00	↓	1625											X	X									
MM-S-80-00	10/10/17	1007											X	X									
MM-S-57-0.5	10/10/17	1022											X	X									

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
HOLD SAMPLE

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mani Frohnstein	Signature: [illegible]	Signature:
Time:	Time: 1410	Time:
Printed Name: Mani Frohnstein	Printed Name: Rob	Printed Name:
Date: 1155	Date: 10/17/17	Date:
Company: ERRG	Company: TA	Company:
Date: 10/17/17		

1) Received by:	2) Received by:	3) Received by:
Signature: [illegible]	Signature: Michael Cole	Signature:
Time: ~~1150~~ 1165	Time: 1410	Time:
Printed Name: Robert	Printed Name: Michael A	Printed Name:
Date: 10/17/17	Date: 10-17-17	Date:
Company: TA	Company: TA	Company:

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HOLD

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THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 10 of 12

Report To

Attn: Caitlin Gorman
Company: ERRG
Address: 115 Sansome Street, SF, CA 94104
Email: caitlin.gorman@errg.com
Bill To:
Attn:
Sampled By: CG/MF
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	~~CAM17 Metals~~ Hg (EPA ~~6010~~/7470/7471) Hg ONLY	Metals: ☒ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: AS ONLY	Metals. ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
86 MM-S-42-00 ⊛	10/9/17	1405	SOIL	N/A									X	X									
87 MM-S-43-00 ⊛	↓	1413	↓	↓									X	X									
88 MM-S-44-00 ⊛		1421											X	X									
MM-S-45 00 ⊛		1428											X	X									
MM-S-46-00 ⊛		1440											X	X									
MM-S-56-00 ⊛		1618											X	X									
~~MM-S-80-00~~	~~10/10/17~~	~~1007~~											X										
92 MM-S-90-00 ⊛	↓	1151											X	X									
93 MM-S-91-00 ⊛		1155											X	X									
~~MM-S-101-00~~		~~1922~~											X										

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
⊛ HOLD ALL SAMPLES

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mark Fromstein	Signature: [signature]	Signature:
Time:	Time: 1410	Time:
Printed Name: Mark Fromstein	Printed Name: Robert	Printed Name:
Date: 1155	Date: 10/17/17	Date:
Company: ERRG	Company: TA	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature]	Signature: [signature]	Signature:
Time: 1155	Time: 1410	Time:
Printed Name: Robert	Printed Name: Michael A	Printed Name:
Date: 1155	Date: 10-17-17	Date:
Company: TA	Company: TA	Company:

Rev.10/20

11/15/2017

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 2017 0115

Date 10/17/17 Page 11 of 12

Report To

Attn: Caitlin Gorman
Company: ERRG
Address: 115 Sansome St, San Francisco, CA 94104
Email: Caitlin.Gorman@errg.com
Bill To:
Sampled By: CG/MF
Attn:
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	Hg (EPA 7470/7471) ONLY	Metals: ☒ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: AS ONLY	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
MM-S-30-0.5	10/11/17	1212	Soil	N/A									X	X										
MM-S-32-0.5	10/11/17	1158	Soil										X	X										
MM-S-31-0.5		0918											X	X										
MM-S-34-1.0		0900											X	X										
MM-S-35-0.5		0843											X	X										
MM-S-15-0.5		0828											X	X										
MM-S-29-0.5		0815											X	X										
MM-S-12-0.5		0802											X	X										
MM-S-24-0.5		0746											X	X										

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
(*) HOLD SAMPLE

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mari Fronstein — Time:	Signature: — Time: 1410	Signature — Time
Printed Name: Mari Fronstein — Date: 1155	Printed Name: Robert — Date: 10/17/17	Printed Name — Date
Company: ERRG — 10/17/17	Company: TA	Company

1) Received by:	2) Received by:	3) Received by:
Signature: — Time: 1155	Signature: — Time: 1410	Signature — Time
Printed Name: Robert — Date: 10/17/17	Printed Name: Michael A — Date: 10-17-17	Printed Name — Date
Company: TA	Company: TA	Company

Rev. 10/20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 20170115

Date 10/17/17 Page 12 of 12

Report To

Attn: Caitlin Gorman
Company: ERRG
Address: 115 Sansome St #200 San Francisco, CA 94104
Email: caitlin.gorman@errg.com
Bill To:
Attn:
Sampled By: CG/MF
Phone: 415-425-2075

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	~~CAM17 Metals~~ (~~EPA 6010/7470/7471~~) Hg only	Metals: ☒ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: As only	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity		
MM-S-101-0.5 (*)	10/11/17	1142	Soil	N/A									X	X										
MM-S-57-1.0 (*)	10/10/17	1810											X	X										
MM-S-21-0.5 (*)	↓	1528											X	X										
MM-S-22-0.5 (*)	↓	1600											X	X										
MM-S-81-0.5 (*)	↓	1515											X	X										
MM-S-55-1.0 (*)	↓	1745											X	X										
MM-S-53-2.0 (*)	10/11/17	0938											X	X										
MM-S-89-0.5 (*)	↓	1549											X	X										
MM-S-108-1.0 (*)	↓	1230											X	X										

Project Info.

Project Name/ #: 20170115 Mammoth Mill
PO#:

Sample Receipt

# of Containers:
Head Space:
Temp:

Credit Card Y/N: If yes, please call with payment information ASAP

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
(*) HOLD ALL SAMPLES

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Mario Frankstein	Signature: [illegible] Time: 1410	Signature: Time:
Printed Name: Mario Frankstein Date: 1155	Printed Name: Robert Date: 10/17/17	Printed Name: Date:
Company: ERRG 10/17/17	Company: TA	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [illegible] Time: 1155	Signature: [illegible] Time: 1410	Signature: Time:
Printed Name: Robert Date: 10/17/17	Printed Name: Michael A Date: 10.17.17	Printed Name: Date:
Company: TA	Company: TA	Company:

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Login Sample Receipt Checklist

Client: Engineering Remediation Resources Group.

Job Number: 720-82620-2

Login Number: 82620

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Alcantara, Michael A

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.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	