

Final

Summary Report
Preliminary Assessment/Site Inspection

Amphitheater Landfill and Tyuonyi Dump Site

Bandelier National Monument
Los Alamos, New Mexico



Prepared for

National Park Service
Intermountain Region
Denver, Colorado

December 2012



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December 20, 2012

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Jay Boisseau, P.E.
National Park Service
IMDE-OEM
12795 W. Alameda Parkway
Lakewood, Colorado 80228

Re: Summary Report
Preliminary Assessment/Site Inspection
Amphitheater Landfill and Tyuonyi Dump Site
Bandelier National Monument
Los Alamos, New Mexico

Dear Mr. Boisseau:

Michael Baker Jr., Inc. (Baker) is pleased to submit two copies of the Summary Report for the Preliminary Assessment/Site Inspection (PA/SI) conducted at the Amphitheater Landfill and Tyuonyi Dump Site at Bandelier National Monument (BAND), Los Alamos, New Mexico (NM). One copy of this summary report has also been sent to Mr. Brian Jacobs (Natural Resources Manager) at BAND and uploaded to the Baker/National Park Service (NPS) website in Adobe Acrobat® PDF format. Presented below is a summary of the activities conducted, results, and conclusions and recommendations.

Mr. Edward Kleinkauf, Baker's Senior Project Geologist, arrived at BAND on Tuesday October 09, 2012, and met with Mr. Jacobs and Mr. Rory Gauthier (BAND Archeologist) to discuss project activities and requirements and visit the sites. Investigative activities began on Wednesday October 10. Enviro-Drill, Inc. (EDI) of Albuquerque, NM, was contracted for the excavation of the test pits/trenches at the landfill. Stewart Robertson, BAND staff archeologist, was present during the excavations at the landfill and Rory Gauthier was present during the drilling of soil boring/sampling locations at the dump site.

HISTORY AND BACKGROUND

Bandelier National Monument

Located in north central NM, BAND encompasses an array of archeological, historic, and natural features. Its main attraction, Frijoles Canyon, contains ruins that include the community house called Tyuonyi and Ceremonial Cave. The canyon is a popular destination among American travelers, but it is not the only significant feature contained in the monument. In 1986, the monument included a designated wilderness area of 23,267 acres among its 32,737-acre total area. Figure 1 presents a General Location Map of BAND, Figure 2 presents a Site Location Map of BAND showing the locations of the landfill and dump site, Figure 3 presents a Topographic Map showing the locations of the landfill and dump site, and Figure 4 is an Aerial Photograph of the Frijoles Canyon area of BAND and the locations of the landfill and dump site.

Bandelier's human history extends back for over 10,000 years when nomadic hunter-gatherers followed migrating wildlife across the mesas and canyons. By 1150 of the Common Era (CE), Ancestral Pueblo people began to build more permanent settlements. Reminders of these past times are still evident in the park as are the strong ties of the modern Pueblo people. By 1550 CE, the Ancestral Pueblo people had moved from their homes here to pueblos along the Rio Grande (i.e., Cochiti, San Felipe, San Ildefonso, Santa Clara, and Santo Domingo).

In the mid-1700's Spanish settlers with Spanish land grants made their homes in Frijoles Canyon. In 1880 Jose Montoya of Cochiti Pueblo brought Adolph F. A. Bandelier to Frijoles Canyon. Montoya offered to show Bandelier his people's ancestral homelands.

In 1916 legislation to create Bandelier National Monument was signed by President Woodrow Wilson. In 1925 Evelyn Frey and her husband, George, arrived to take over the Ranch of the 10 Elders that had been built by Judge Abbott in 1907. Between 1934 and 1941, workers from the Civilian Conservation Corps (CCC) worked from a camp constructed in Frijoles Canyon. Among their accomplishments is the road into Frijoles Canyon, the current visitor center, a new lodge, and miles of trails. For several years during World War II the park was closed to the public and the Bandelier lodge was used to house Manhattan Project scientists and military personnel (NPS, 2012).

Highest temperatures occur in July (low 80s) and lowest temperatures occur in December and January (mid to upper 30s). Average annual precipitation for the area of BAND is less than 20 inches per year. The highest precipitation occurs during the mid to late summer months (Weather Channel).

Amphitheater Landfill and Tyuonyi Dump Site

The two areas for the PA/SI include: 1) a former landfill immediately south of the amphitheater and southwest of Juniper Campground Loops A and B, and 2) a former dump site near the Tyuonyi Overlook Loop Trail (approximately 1300 feet west of the landfill). Information indicates that both the landfill and dump site were originally operated as quarries from the time of the CCC work at BAND.

Information on the landfill and dump site were presented in the project Scope of Work (SOW) and obtained from the following references:

- Historical Investigation Report for Frijoles Canyon Aggregate Area, LA-UR-10-6408, October, 2010, Los Alamos National Laboratory (LANL). This report documents an investigation conducted by LANL as part of the requirements of a Consent Order and focuses on the landfill area (AOC C-00-037) and the dump site (AOC C-00-038).
- Approval, Historical Investigation Report for Frijoles Canyon Aggregate Area, LANL EPA ID# NM0890010515, HWB-LANL-10-082, December 6, 2010 – letter from NM Environment Department to LANL.
- Certificates of Completion, Frijoles Canyon Aggregate Area, LANL, EPA ID# NM0890010515, HWB-LANL-10-102, January 31, 2011 – letter from NM Environment Department to LANL.

The landfill is approximately 2.75 acres in size and is located adjacent to and southeast of the amphitheater near Juniper campground. (Note that NPS and LANL information reported a somewhat different size of the former landfill site [1.3 acres vs. 2.75 acres]). The site is relatively flat with a slight grade to the south/southeast. At the lower southern end of the filled area is a bench/step about 6 feet in height (refer to Figure 5, Amphitheater Landfill Site Plan). The site was used during the 1932-1942 CCC era as a dump; at that time the land was managed by the U.S. Forest Service (USFS). Waste and debris were deposited when the area was under Atomic Energy Commission (AEC) administration, although materials appear to be the result of State Highway Department, NPS and AEC activities. The land was transferred to

BAND in January of 1961 from LANL/AEC. In compliance with the National Historic Preservation Act of 1966 (as amended) and Executive Order 11593, an archaeological inventory survey was conducted by the NPS Division of Anthropology in 1994.

Aerial photographs indicate the landfill area was in use during the 1950s and 1960s and dumping apparently continued into the 1970s after the site was obtained by the NPS. The refuse was dumped into a small drainage channel with approximately 20 to 25 feet (vertical) of debris/fill present at the lower terminus. NPS information indicates that the landfill contains a variety of park and household items ranging from original quarry debris to discarded appliances and household trash. The archaeological survey performed in 1994 did not reveal any prehistoric or historic artifacts. However, since excavation trenching could impact buried historic materials not evident on the surface, it is stipulated that an NPS archaeologist monitor the trenching activity in this location as well as the drilling of soil borings in the dump site.

The dump site is approximately 0.12 acre in size and is located adjacent to an abandoned section of the Tyuonyi Overlook Loop Trail. The site is located on a relatively steep slope with two benches/steps (refer to Figure 6, Dump Site Plan). The dump site contains historic artifacts dating from the 1920s to the early 1940s. The dates of artifacts and their deposition appear to precede the establishment of the Manhattan Project, and subsequent transfer of lands to the AEC. This fact, and the nature of the materials observed, suggests this refuse is associated with 1930s to early 1940s NPS activities on Frijoles Mesa and in Frijoles Canyon. The materials identified can logically be interpreted as the by-products of construction of the park entrance road, headquarters and lodge, and subsequent operation of these facilities. This site was considered not significant under the eligibility criteria of the National Register of Historic Places in 1994, but has since been re-evaluated and may be eligible for the National Register under Criterion D (“... that have yielded, or may likely yield, information important in prehistory or history.”).

Photographs of the Amphitheater Landfill and Tyuonyi Dump Site and activities associated with the excavation of test trenches and collection of soil samples are included as Attachment A.

FIELD ACTIVITIES

Field activities were conducted according to the Scope of Work issued by the NPS dated March 22, 2012, with the Baker option of use of a track hoe to be able to investigate the anticipated depth at the landfill. The field activities included the excavation of test trenches/pits using a track hoe at the landfill and drilling soil borings at the dump site using hand augers, collection of soil samples for laboratory analysis to characterize the sites,

photographs of the sites, and site surveys to identify features. The use of mechanical equipment was precluded at the dump site due to the identified presence of historical artifacts, so hand augers were required. Figures 5 and 6 present site plans showing boundaries, features, and test trench/pit and soil boring locations for the landfill and dump site, respectively. Table 1 presents a summary of the soil samples collected and analyses performed. A copy of the chain-of-custody (CoC) is included in Attachment B.

Health and safety procedures during the field activities followed standard Office of Safety and Health Administration (OSHA), United States Environmental Protection Agency (USEPA) procedures and protocols, and Baker's NPS Master Project Plans Health and Safety Plan (HASP) (Baker, 2007). A Project/Work Area Safety Assessment (PSA) was completed by EDI and signed by Baker and NPS site personnel for the excavation work at the landfill. A copy of the PSA is included in Attachment B.

Following completion of the field activities, Messrs. Jacobs and Gauthier were briefed on the field activities, field findings and schedule for submittal of the draft and final reports.

Field Investigations

Amphitheater Landfill

A total of six test trenches/pits were excavated at the landfill site, which is located in a drainage channel that slopes to the south/southeast. Refer to Figure 5 for excavation locations. Excavation activities began at the lower end of the landfill site. This area indicates a depth of between 20 and 25 feet of fill material (i.e., solid waste and backfill/cover). Test Trench/Pit #1 (BAND-ALF-TP01) showed a depth of approximately 3 feet of backfill/cover material, which is comprised primarily of soil with rock fragments. Below this depth was a mixture of solid waste and fill. The solid waste was primarily composed of glass items and fragments (i.e., bottles, jars), pieces of dinnerware, and miscellaneous small metal items/pieces. No paper or plastic items were evident and there were some indications of burning. The fill material was generally composed of rock with some soil. The rock appeared to be possible debris from the quarry operations or from CCC construction projects, and ranged in size from gravel to larger pieces up to 18 inches or more in size (refer to Photographs #1 through #10 in Attachment A). As the test trench was excavated deeper, the side walls continually caved and sloughed due to the large amount of rock debris with little soil used as backfill. This material was not very cohesive and limited the depth of excavation to approximately 12 to 15 feet below ground surface (bgs). Solid waste was encountered to this depth but total depth of the trench may not have reached the bottom of the municipal waste or the original ground

surface of the drainage channel/quarry. Evidence of quarrying was observed (i.e., drilling half-barrels) on the lower end of the west side of the site (refer to Photograph #3 in Attachment A).

The remaining test trenches/pits (TP02 [down slope] through TP06 [up slope] at the site) indicated decreasing amounts of solid waste (still primarily glass items and fragments) going up slope at the site; however, the depth of the trenches/pits decreased going up slope (ranging from 8 feet bgs at TP02 to 6 feet bgs at TP06) due to the caving/sloughing of the side walls. The side walls continued to cave and slough due to the large quantity and size of the rock debris backfill, small quantity of soil, and low cohesiveness (refer to Attachment A photographs). This again prevented investigating the full extent of waste. All trenches/pits were backfilled with excavated material following completion of the excavation and collection of laboratory samples.

Tyuonyi Dump Site

Hand augers were designated for the collection of soil samples at the dump site due to the identified presence of historical artifacts. A total of five hand auger sample locations (BAND-DS-SB01 to SB05) were advanced at the dump site (refer to Figure 6 for soil boring/sampling locations). Soil Boring #1 (BAND-DS-SB01) was located up slope near the approximate limit of the dump site (refer to Photographs #11 through #16 in Attachment A). Hand augering was attempted; however, due to the rock debris (starting at the ground surface) the auger could not penetrate very far into the ground. A shovel was used to dig a hole to a depth of 12 to 18 inches. Soil borings SB02, SB04, and SB05 were attempted using the hand augers; however, due to the rock material encountered, they were dug using a shovel. At location SB03, at the lower end of the slope, possibly outside the dump site boundary, a hand auger was used. The hand auger was advanced to a depth of 36 to 42 inches bgs.

No evidence of solid waste was encountered in the soil borings. Evidence of solid waste at the site included the exposed roof of an old automobile in the up slope area and very minor amounts of occasional metal on the ground surface of the site area. The full extent of the waste could not be investigated due to the rock material encountered at the site. Borings were backfilled at the end of the field investigation at the dump site.

Laboratory Samples

Due to the depth and/or unstable conditions of trenches/pits at the landfill, sample material was collected directly from the track hoe bucket using disposable scoops. The track-hoe extracted the material from the bottom of each excavation from depths ranging from 6 to 12 feet bgs. Disposable scoops and/or small metal trowels were used

in the collection of soil samples from the bottom of the shovel dug holes (1 foot bgs) at the dump site. Soil from the bottom of the auger boring (3 feet bgs) at BAND-DS-SB03 was collected for analysis directly from the auger bucket. Collected material was placed in disposable aluminum pans. Laboratory samples for Target Compound List (TCL) volatile organic compounds (VOCs) and Total Petroleum Hydrocarbons (TPH) gasoline range organics (GRO) were collected using Terra Core[®] sampling kits supplied by the laboratory. These kits allow for the collection of volatile samples with minimal disturbance by placing the sample directly into shipping containers with the appropriate preservatives so that volatiles loss is kept to a minimum. Remaining analytical samples for TPH diesel range organics (DRO), TCL semivolatile organic compounds (SVOCs), and Target Analyte List (TAL) metals and mercury were thoroughly mixed/homogenized in the aluminum pans using disposable scoops, and placed in the appropriate laboratory sample jars for the prescribed analyses. All samples were labeled with required information and stored on ice for shipment, along with the proper CoC, by Federal Express Priority Overnight to Test America Laboratories, Inc. (TAI) in Savannah, Georgia, for analysis. Table 1 presents a summary of the samples collected and submitted for analysis for the PA/SI.

All disposable materials were collected, placed in a garbage bag, and disposed of as municipal trash.

GPS Survey and Photographs

Global Positioning System (GPS) surveys of the two sites were conducted. These surveys were of approximate site boundaries, identified site features, and sampling locations. These surveys were used to prepare Figures 5 and 6. Due to problems downloading the files in the field, files were downloaded upon return to Pittsburgh; however, no coordinate corrections were performed. Photographs were taken of the sites and activities. Representative photographs are included as Attachment A.

ANALYTICAL RESULTS

Table 2 presents a summary of the analytical results. New Mexico Environment Department (NMED) Residential and Industrial Soil Screening Levels (SSLs), USEPA Regional Screening Levels (RSLs) and Background Metal Concentrations (Dragon and Chekiri, 2005) were used as comparison criteria/standards. NMED listed Massachusetts Department of Environmental Protection (MADEP) as a reference for petroleum products screening levels. Based on a review of MADEP information, a concentration of 500 milligrams per kilogram (mg/kg) was used as screening criteria for TPH DRO. Attachment C contains the laboratory analytical report.

Amphitheater Landfill

TCL VOCs, TPH GRO, and TCL SVOCs were not detected above the reporting limits in any of the samples. Reporting limits for VOCs, GRO, and SVOCs were below the NMED SSLs and USEPA RSLs. TPH DRO was detected in all samples. The concentrations for TPH DRO were below the 500 mg/kg criteria by one to two orders of magnitude. TPH DRO reporting limit was below the 500 mg/kg comparison criteria.

Seventeen of 22 metals were detected in the PA/SI soil samples. Antimony, cadmium, selenium, silver, and thallium were the metals not detected. All metals reporting limits were below comparison criteria. Concentrations of arsenic were detected in six of the seven samples. All arsenic concentrations were above the USEPA RSL with one sample above the NMED Residential SSL. Chromium was detected in all samples and detected above the NMED Residential SSL and USEPA RSL. No concentrations of arsenic or chromium exceeded Background Mean Concentrations. Beryllium was detected in all samples at concentrations above the Background Mean Concentration, but within the concentrations range. Lead, zinc, and mercury were detected in a few samples at concentrations above the Background Mean Concentrations, but within the concentration ranges.

Tyuonyi Dump Site

TCL VOCs and TPH GRO were not detected above the reporting limits in any of the samples. Reporting limits for VOCs and GRO were below the NMED SSLs and USEPA RSLs. TPH DRO was detected in all samples. The concentrations for TPH DRO were below the 500 mg/kg criteria by one to two orders of magnitude except for sample BAND-DS-SB05-00 which was the same order of magnitude but approximately half the NMED Residential SSL. TPH DRO reporting limits was below the 500 mg/kg comparison criteria. The only TCL SVOCs detected were naphthalene and caprolactam. These constituents were both detected in only one sample, BAND-DS-SB05-00, at concentrations below comparison criteria by one to four orders of magnitude. Reporting limits for SVOCs were below the comparison criteria.

Seventeen of 22 metals were detected in the PA/SI soil samples. Antimony, cadmium, selenium, silver, and thallium were the metals not detected. All metals reporting limits were below comparison criteria. Concentrations of arsenic and chromium were detected in all samples and above USEPA RSLs. Arsenic was detected in only one sample above the NMED Residential SSL. All chromium concentrations were above the NMED Residential SSL. No concentrations of arsenic or chromium exceeded Background Mean Concentrations.

Beryllium was detected in all samples at concentrations above the Background Mean Concentration, but within the concentrations range. Lead, zinc, and mercury were detected in one sample at concentrations above the Background Mean Concentrations, but within the concentration ranges.

CONCLUSIONS/RECOMMENDATIONS

Amphitheater Landfill

The only organic detected at the site was TPH DRO at low concentrations. All concentrations were below the NMED comparison criteria of 500 mg/kg. Metals were detected throughout the site with arsenic and chromium consistently detected above NMED and/or USEPA comparison criteria. These metals were not detected above published Background Mean Concentrations for NM. As stated, total depth and types of solid waste material was not determined at the site due to the subsurface materials (i.e., noncohesive material comprised of large rocks with little soil) and the inability to excavate to depth due to caving and sloughing.

Based on information from the field investigation, there appears to be little effect from the disposal of municipal waste. However, a definitive statement on the types/quantity, depths, and complete characterization of the waste cannot be made due to the investigative barriers encountered during the field activities. Current evaluation of the site does not indicate it to be of prehistoric or historic significance. Ultimately, removal of the landfill would be consistent with NPS policy and the NPS mission of protecting natural areas for the enjoyment of the public. The site is an area open to the public with the Frey Trail running through the center of the site (refer to Figure 5). To fully investigate and characterize the site would be a major undertaking (i.e., extensive excavation for trenches/pits). A removal action could be more efficient and cost effective. Removal of the landfill would also preclude the possibility of future problems/safety concerns in relation to potential heavy rains and flooding, as experienced at BAND in 2011, washing away backfill material and exposing buried waste.

Tyuonyi Dump Site

The only organics detected at the site were TPH DRO, naphthalene, and caprolactam at low concentrations. All concentrations were below the NMED and USEPA comparison criteria. Metals were detected throughout the site with chromium consistently detected above NMED and USEPA comparison criteria. Arsenic was detected in all samples above the USEPA RSL with only one sample concentration above the NMED SSL. These metals were not detected above published Background Mean Concentrations for NM. As stated, total depth and types of solid

waste material was not determined at the site due to the subsurface materials encountered (i.e., rock debris – could not hand auger to any depth) and the investigative limitations placed on the site due to the identified presence of historical artifacts.

Based on information from the field investigation, there appears to be little effect from the disposal of municipal waste. However, a definitive statement on the types/quantity of waste and depths of waste cannot be made because of the lack of complete information on the site. Ultimately, removal of the dump site would be consistent with NPS policy and the NPS mission of protecting natural areas for the enjoyment of the public. The site is an area open to the public with the Tyuonyi Overlook Trail running next to the site (refer to Figure 6). To fully investigate and characterize the site would be a major undertaking (i.e., extensive excavation for trenches/pits). A removal action could be more efficient and cost effective. Removal of the dump site would also preclude the possibility of future problems/safety concerns in relation to potential heavy rains and flooding, as experienced at BAND in 2011, washing away backfill material and exposing buried waste. There is the consideration of the site being included on the National Register of Historic Places under Criterion D. Under this eligibility, excavation work may be precluded at the site.

REFERENCES

- | | |
|--------------------------|--|
| Baker, 2007 | <u>Master Project Plans for National Park Service, Intermountain Region.</u> Michael Baker Jr., Inc., 2007. |
| Dragon and Chekiri, 2005 | <u>Elements in North American Soils, 2nd Edition.</u> James Dragon, Ph.D., and Khaled Chekiri, Ph.D., 2005. |
| LANL, 2010a | <u>Historical Investigation Report for Frijoles Canyon Aggregate Area, LA-UR-10-6408, October, 2010,</u> Los Alamos National Laboratory. |
| LANL, 2010b | <u>Approval, Historical Investigation Report for Frijoles Canyon Aggregate Area, LANL EPA ID# NM0890010515, HWB-LANL-10-082, December 6, 2010</u> – letter from New Mexico Environment Department to Los Alamos National Laboratory. |

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LANL, 2011 Certificates of Completion, Frijoles Canyon Aggregate Area, LANL, EPA ID# NM0890010515, HWB-LANL-10-102, January 31, 2011 – letter from New Mexico Environment Department to Los Alamos National Laboratory.

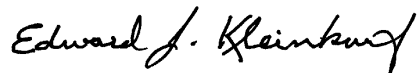
NPS, 2012 Bandelier National Monument Visitors Guide, National Park Service, July 2012.

Weather Channel The Weather Channel Website; Los Alamos, New Mexico.

Should you have any questions pertaining to this summary report, please do not hesitate to contact me at 412-269-4688 or e-mail at ekleinkauf@mbakercorp.com. Baker appreciates the opportunity to provide services to the NPS and BAND.

Sincerely,

MICHAEL BAKER JR., INC.



Edward J. Kleinkauf, C.P.G., P.G.
Senior Geologist

EJK:dac

Attachments

cc: Mr. Brian Jacobs, Natural Resources Manager, BAND (one copy)

Baker

Michael Baker Jr., Inc.
TABLES

TABLE 1

SAMPLING SUMMARY

**PRELIMINARY ASSESSMENT/SITE INSPECTION REPORT
AMPHITHEATER LANDFILL AND TYUONYI DUMP SITE
BANDELIER NATIONAL MONUMENT
LOS ALAMOS, NEW MEXICO**

Sample Location	Sample Identification	Depth of Sample (ft., bgs)	Date Sampled	Sample Type	ANALYSES					
					VOCs SW8260B	SVOCs SW8270C	TPH GRO SW8015B	TPH DRO SW8015B	TAL Metals SW6010B	Mercury SW7471A
Soil – Amphitheater Landfill										
BAND-ALF-TP01	BAND-ALF-TP01-00	12	10/10/2012	soil	X	X	X	X	X	X
BAND-ALF-TP01	BAND-ALF-TP01-00D	12	10/10/2012	soil	X	X	X	X	X	X
BAND-ALF-TP02	BAND-ALF-TP02-00	8	10/10/2012	soil	X	X	X	X	X	X
BAND-ALF-TP03	BAND-ALF-TP03-00	8	10/10/2012	soil	X	X	X	X	X	X
BAND-ALF-TP04	BAND-ALF-TP04-00	8	10/10/2012	soil	X	X	X	X	X	X
BAND-ALF-TP05	BAND-ALF-TP05-00	6	10/10/2012	soil	X	X	X	X	X	X
BAND-ALF-TP06	BAND-ALF-TP06-00	6	10/10/2012	soil	X	X	X	X	X	X
Soil – Tyuonyi Dump Site										
BAND-DS-SB01	BAND-DS-SB01-00	1	10/11/2012	soil	X	X	X	X	X	X
BAND-DS-SB02	BAND-DS-SB02-00	1	10/11/2012	soil	X	X	X	X	X	X
BAND-DS-SB03	BAND-DS-SB03-00	3	10/11/2012	soil	X	X	X	X	X	X
BAND-DS-SB04	BAND-DS-SB04-00	1	10/11/2012	soil	X	X	X	X	X	X
BAND-DS-SB05	BAND-DS-SB05-00	1	10/11/2012	soil	X	X	X	X	X	X

NOTES:

BAND Bandelier National Monument
 ALF Amphitheater Landfill
 TP Test Pit/Trench
 DS Tyuonyi Dump Site
 SB Soil Boring
 “00” surface soil sample
 “D” duplicate

ft feet
 bgs below ground surface
 VOCs volatile organic compounds
 SVOCs semivolatile organic compounds
 TPH Total Petroleum Hydrocarbons
 GRO Gasoline Range Organics
 DRO Diesel Range Organics

TABLE 2

SUMMARY OF ANALYTICAL RESULTS

PRELIMINARY ASSESSMMENT/SITE INSPECTION
SUMMARY REPORT

AMPHITHEATER LANDFILL AND TYUONYI DUMP SITE

BANDELIER NATIONAL MONUMENT

LOS ALAMOS, NEW MEXICO

	COMPARISON CRITERIA				AMPHITHEATER LANDFILL							DUMP SITE				
Sample ID	New Mexico Residential SSL ⁽¹⁾	New Mexico Industrial SSL ⁽¹⁾	USEPA Regional RSL ⁽²⁾	Background Metal Concentrations ⁽³⁾	BAND-ALF-TP01-00 10/10/2012	BAND-ALF-TP01-00D 10/10/2012	BAND-ALF-TP02-00 10/10/2012	BAND-ALF-TP03-00 10/10/2012	BAND-ALF-TP04-00 10/10/2012	BAND-ALF-TP05-00 10/10/2012	BAND-ALF-TP06-00 10/10/2012	BAND-DS-SB01-00 10/11/2012	BAND-DS-SB02-00 10/11/2012	BAND-DS-SB03-00 10/11/2012	BAND-DS-SB04-00 10/11/2012	BAND-DS-SB05-00 10/11/2012
Sample Date																
Volatiles (ug/kg)	No volatiles were detected above reporting limits															
TPH GRO (C6 - C10) (mg/kg)	TPH GRO was not detected above reporting limits															
TPH DRO (C10 - C28) (mg/kg)	500 ⁽⁴⁾	NE	NE	NA	5.1	4.4	18	10	19	6.6	17	24	12	22	15	230
Semivolatiles (ug/kg)																
Naphthalene	43000	241000	3600	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	420
Caprolactam	NE	NE	31000000	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	580
	No other semivolatiles were detected above reporting limits.															
Metals (mg/kg)																
aluminum	78000	113000	77000	5,000-100,000/74,000	9300	9800	9200	8100	12000	13000	13000	16000	31000	15000	15000	19000
antimony	31.3	454	31	<1.0-2.6/0.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
arsenic	3.9	17.7	0.39	2.0-97/9.8	2.3	2.5	2.8	ND	2.8	2.8	4.6	2.3	5.2	3.9	2.3	5.5
barium	15600	223000	15000	200-1500/566	80	84	78	75	120	110	110	63	140	120	110	470
beryllium	156	2260	160	ND-5.0/0.52	1	1.1	1.1	1	1.4	1.5	1.1	2.2	2.4	0.98	1.1	2.5
cadmium	70.3	897	70	ND-11/NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
calcium	NE	NE	NE	600-320,000/33,000	3000	13000	3100	9100	11000	4500	2900	2900	4000	2900	330	20000
chromium	2.97	63.1	0.29	5.0-300/57	7.6	7	6.8	5.9	8.5	8.8	10	9.3	18	14	10	9.6
cobalt	NE	NE	23	ND-30/9.8	2.4	2.5	1.8	1.5	1.8	2.7	3.4	1.5	4.5	4.8	3.1	4.1
copper	3100	45400	3100	5.0-200/29	6.1	6.1	7.6	6.7	6.6	7.5	6.8	7.8	12	10	6.7	28
iron	54800	795000	55000	1000-100,000/26,000	12000	11000	12000	10000	12000	13000	15000	12000	23000	17000	14000	18000
lead	400	800	400	ND-100/23	12	9.7	57	12	13	13	9.9	6.8	14	20	8.2	67
magnesium	NE	NE	NE	300-100,000/10,000	1800	2400	1400	1400	2100	2100	2000	2400	4300	3000	2200	2800
manganese	1860	26700	1800	30-5000/480	400	380	360	340	400	390	430	220	400	340	260	230
nickel	1560	22500	1500	ND-150/27	4.8	5.2	4.8	ND	5.5	6.3	6.8	5.2	13	9.9	6.9	8.8
potassium	NE	NE	NE	1900-63,000/18,000	1900	2100	1600	1500	2100	2300	2300	2400	5200	3200	2500	1700
selenium	391	5680	390	<0.1-1.1/0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
silver	391	5680	390	<0.5-5.0/<0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sodium	NE	NE	NE	<500-100,000/12,000	360	370	ND	450	350	ND	820	ND	ND	280	ND	590
thallium	0.782	11.4	0.78	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
vanadium	391	5680	390	10-300/68	16	16	14	12	15	18	23	15	37	28	22	22
zinc	23500	341000	23000	12-150/62	56	49	61	75	82	60	44	44	64	46	36	140
mercury	15.6	73.6	10	<0.01-0.57/0.099	ND	ND	0.15	0.027	0.049	0.05	0.028	0.033	0.042	ND	0.023	0.21

NOTES:

SSL - Soil Screening Level
USEPA - US Environmental Protection Agency
RSL - Regional Screening Level
BAND - Bandelieater National Monument
ALF - Amphitheater Landfill
DS - Dump Site
"00" - surface sample
"D" - duplicate
ug/kg - microgram per kilogram
mg/kg - milligrams per kilogram

⁽¹⁾ February 2012
⁽²⁾ May 2012
⁽³⁾ Elements in North American Soils, 2nd Edition; Dragun and Chekiri (Range/Mean) (If no specific values for New Mexico listed, values for Western States are shown [if available])
⁽⁴⁾ Based on Massachusetts Risk Evaluation
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics

NE - not established
NA - not applicable
ND - not detected

BOLD Exceeds NM Residential SSL

Italics Exceeds NM Industrial SSL

Exceeds USEPA RSL

Exceeds Background Metal Mean Concentration

Baker

Michael Baker Jr., Inc.
FIGURES



FIGURE 1
GENERAL LOCATION MAP
BANDELIER NATIONAL MONUMENT
LOS ALAMOS, NEW MEXICO

SOURCE: RAND McNALLY, 2007

0 25 Miles
1 inch = 25 Miles

SCALE: 1" = 25 Miles

DATE: JUNE 2012

S.O. NO.: 125620

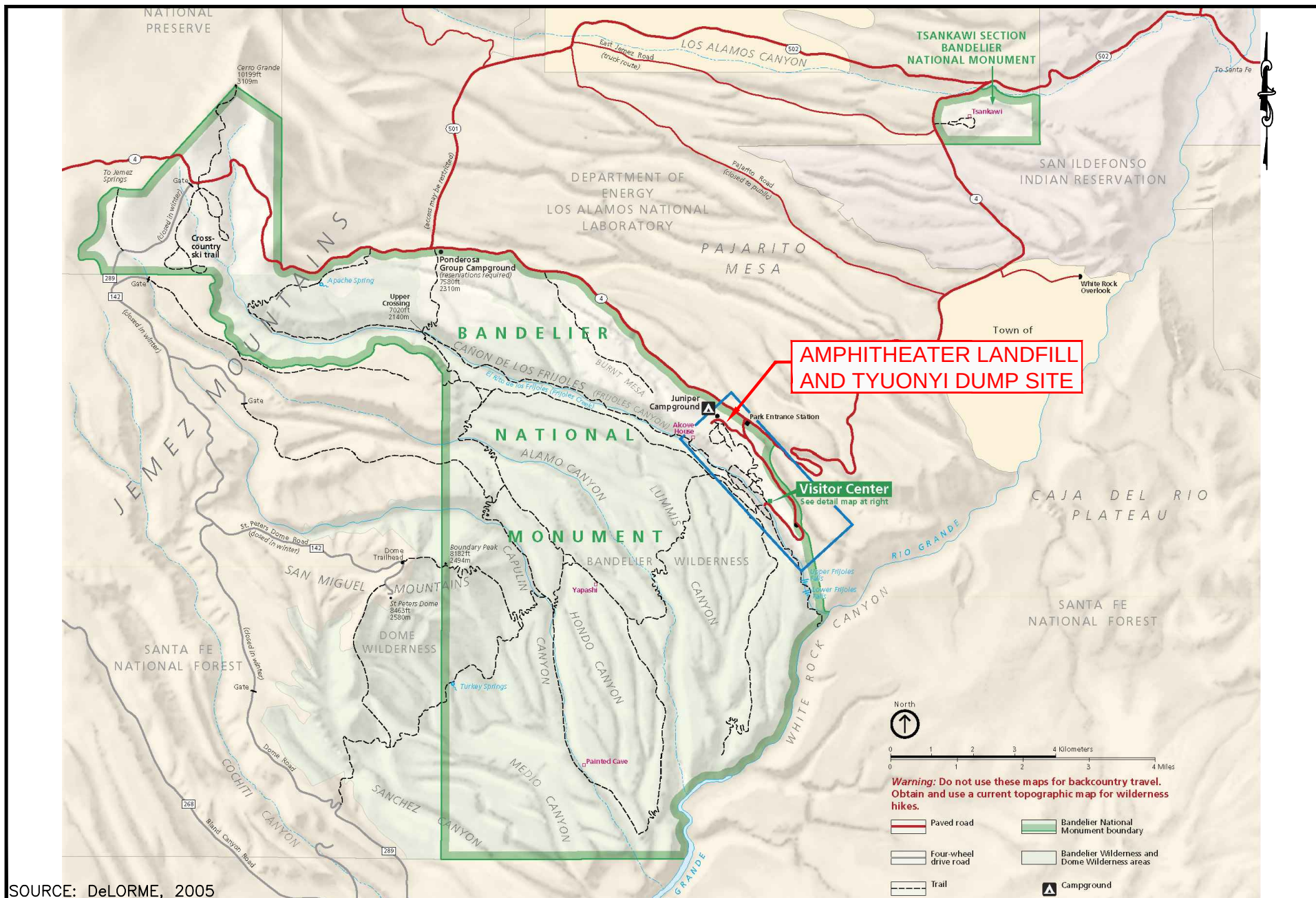
FILE: 128555_BNM_01

DSN/DWN: EJK/RRR

CHK: EJK

Baker

Michael Baker Jr., Inc.
Moon Township, Pennsylvania



SOURCE: DeLORME, 2005

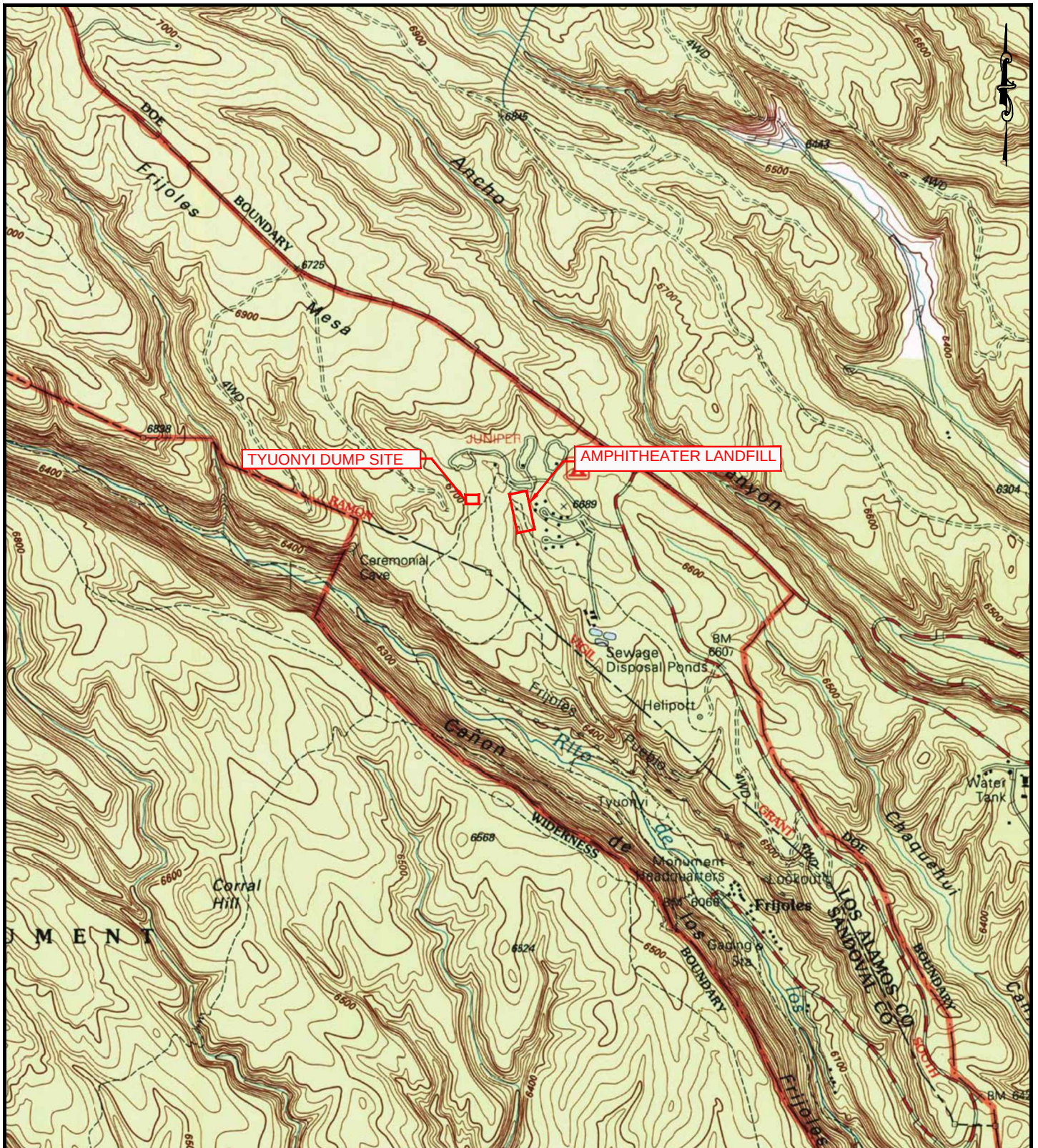
SCALE: AS SHOWN
S.O. NO.: 128555
DSN/DWN: EJK/RRR

DATE: JUNE 2012
FILE: 128555_BNM_02
CHK: EJK

Baker

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Moon Township, Pennsylvania

FIGURE 2
SITE LOCATION MAP
AMPHITHEATER LANDFILL AND TYUONYI DUMP SITE
BANDELIER NATIONAL MONUMENT
LOS ALAMOS, NEW MEXICO



NEW MEXICO

FIGURE 3
TOPOGRAPHIC MAP
AMPHITHEATER LANDFILL AND TYUONYI DUMP SITE
BANDELIER NATIONAL MONUMENT
LOS ALAMOS, NEW MEXICO

QUADRANGLE INFO
NEW MEXICO
FRIJoles 2002

2000 0 1000 2000
1 inch = 2000 ft.

QUADRANGLE LOCATION

SCALE: 1" = 2000'
S.O. NO.: 125620
DSN/DWN: EJK/RRR

DATE: JUNE 2012
FILE: 128555_BNM_03
CHK: EJK

Baker

Michael Baker Jr., Inc.
Moon Township, Pennsylvania



SOURCE: GOOGLE, 2011

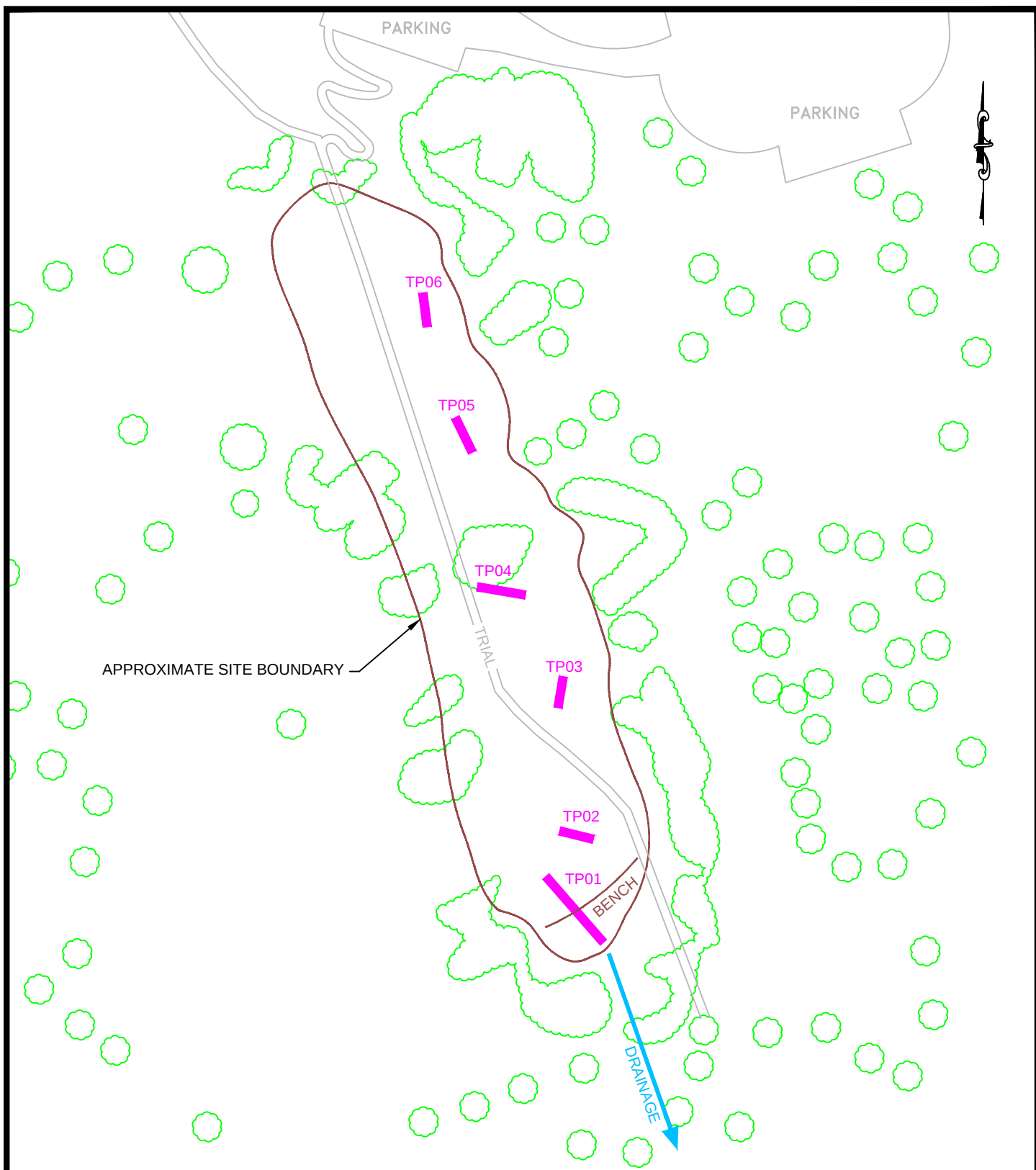
SCALE: 1"=400'
S.O. NO.: 128555
DSN/DWN: EJK/RRR

DATE: JUNE 2012
FILE: 128555_BNM_04
CHK: EJK

Baker

Michael Baker Jr., Inc.
Moon Township, Pennsylvania

FIGURE 4
AERIAL PHOTOGRAPH
AMPHITHEATER LANDFILL AND TYUONYI DUMP SITE
BANDELIER NATIONAL MONUMENT
LOS ALAMOS, NEW MEXICO



LEGEND	
█	-TEST TRENCH/PIT
—	-APPROXIMATE SITE BOUNDARY
○	-TREES/BRUSH
—	-TRAIL
—	-PARKING
➔	-DRAINAGE DIRECTION

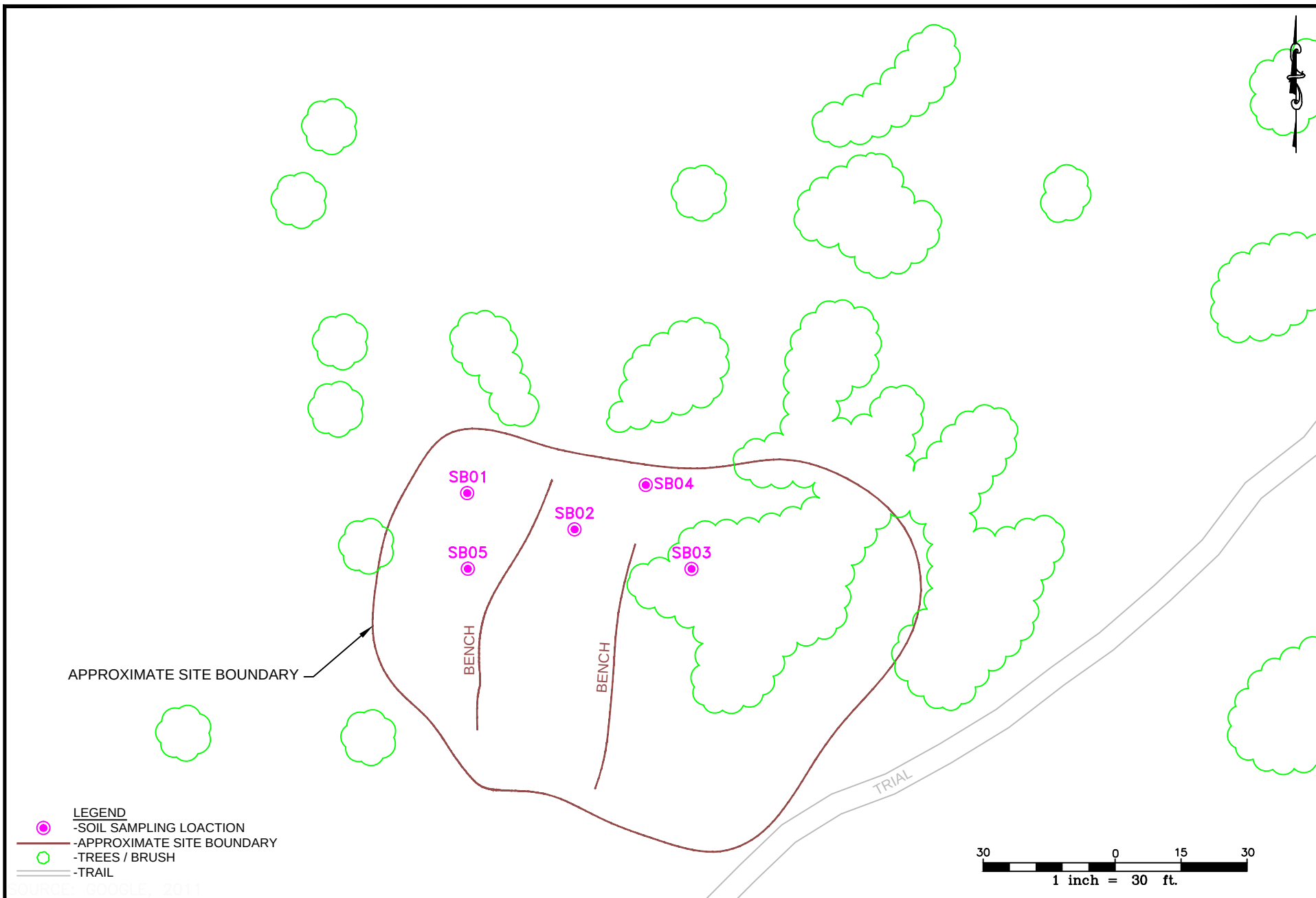
FIGURE 5
LANDFILL SITE
SITE PLAN AND TEST TRENCH/PIT LOCATIONS
AMPHITHEATER LANDFILL AND TYUONYI DUMP SITE
BANDELIER NATIONAL MONUMENT
LOS ALAMOS, NEW MEXICO

SCALE: 1"=80'
 S.O. NO.: 128555
 DSN/DWN: EJK/RRR

DATE: NOVEMBER 2012
 FILE: 128555_BNM_06
 CHK: EJK

Baker

MICHAEL BAKER JR., INC.
 MOON TOWNSHIP, PENNSYLVANIA



SCALE: 1"=30'
 S.O. NO.: 128555
 DSN/DWN: EJK/RRR

DATE: OCTOBER 2012
 FILE: 128555_BNM_06
 CHK: EJK

Baker

Michael Baker Jr., Inc.
 Moon Township, Pennsylvania

FIGURE 6
DUMP SITE
 SITE PLAN AND SOIL SAMPLING LOCATIONS
 AMPHITHEATER LANDFILL AND TYUONYI DUMP SITE
 BANDELIER NATIONAL MONUMENT
 LOS ALAMOS, NEW MEXICO

Baker

Michael Baker Jr., Inc.
ATTACHMENTS

Baker

Michael Baker Jr., Inc.
ATTACHMENT A

Site Photographs

MICHAEL BAKER JR., INC. – PHOTOGRAPHIC RECORD

SITE NAME: BAND – PA/SI Amphitheater Landfill (ALF) and Tyuonyi Dump Site (DS)

PHOTOGRAPH

1

VIEW

North/Northwest

**PHOTOGRAPHS
BY**

Baker



Comments: ALF – Looking from lower end of site to upper end; Frey Trail in foreground (2012)

PHOTOGRAPH

2

VIEW

South

**PHOTOGRAPHS
BY**

Baker



Comments: ALF - Looking from lower end of site down drainage channel (2012)

MICHAEL BAKER JR., INC. – PHOTOGRAPHIC RECORD

SITE NAME: BAND – PA/SI Amphitheater Landfill (ALF) and Tyuonyi Dump Site (DS)

PHOTOGRAPH

3

VIEW

West/Southwest

**PHOTOGRAPHS
BY**

Baker



Comments: ALF – Evidence of past quarrying operations; half-barrels (2012)

PHOTOGRAPH

4

VIEW

West

**PHOTOGRAPHS
BY**

Baker



Comments: ALF - Starting excavation of Test Pit (TP) 01 at lower end of site (2012)

MICHAEL BAKER JR., INC. – PHOTOGRAPHIC RECORD

SITE NAME: BAND – PA/SI Amphitheater Landfill (ALF) and Tyuonyi Dump Site (DS)

PHOTOGRAPH

5

VIEW

South

**PHOTOGRAPHS
BY**

Baker



Comments: ALF – TP01 (2012)

PHOTOGRAPH

6

VIEW

-

**PHOTOGRAPHS
BY**

Baker



Comments: ALF – TP01; example of materials excavated from trench; primarily glass (2012)

MICHAEL BAKER JR., INC. – PHOTOGRAPHIC RECORD

SITE NAME: BAND – PA/SI Amphitheater Landfill (ALF) and Tyuonyi Dump Site (DS)

PHOTOGRAPH

7

VIEW

South/Southwest

**PHOTOGRAPHS
BY**

Baker



Comments: ALF – TP02; type of material encountered in trenches (2012)

PHOTOGRAPH

8

VIEW

-

**PHOTOGRAPHS
BY**

Baker



Comments: ALF – TP03; example of side wall conditions in trenches (2012)

MICHAEL BAKER JR., INC. – PHOTOGRAPHIC RECORD

SITE NAME: BAND – PA/SI Amphitheater Landfill (ALF) and Tyuonyi Dump Site (DS)

PHOTOGRAPH

9

VIEW

-

**PHOTOGRAPHS
BY**

Baker



Comments: ALF – TP04; side wall conditions (2012)

PHOTOGRAPH

10

VIEW

East

**PHOTOGRAPHS
BY**

Baker



Comments: ALF – TP06; example of materials excavated from trench (2012)

MICHAEL BAKER JR., INC. – PHOTOGRAPHIC RECORD

SITE NAME: BAND – PA/SI Amphitheater Landfill (ALF) and Tyuonyi Dump Site (DS)

PHOTOGRAPH

11

VIEW

Northwest

**PHOTOGRAPHS
BY**

Baker



Comments: DS – Looking uphill across site (2012)

PHOTOGRAPH

12

VIEW

Southeast

**PHOTOGRAPHS
BY**

Baker



Comments: DS – Looking downhill across site; old car roof in foreground (2012)

MICHAEL BAKER JR., INC. – PHOTOGRAPHIC RECORD

SITE NAME: BAND – PA/SI Amphitheater Landfill (ALF) and Tyuonyi Dump Site (DS)

PHOTOGRAPH

13

VIEW

East

**PHOTOGRAPHS
BY**

Baker



Comments: DS – Soil Boring (SB) 01; example of surface material at site (2012)

PHOTOGRAPH

14

VIEW

Southeast

**PHOTOGRAPHS
BY**

Baker



Comments: DS – SB02; example of type of material encountered in boring (2012)

MICHAEL BAKER JR., INC. – PHOTOGRAPHIC RECORD

SITE NAME: BAND – PA/SI Amphitheater Landfill (ALF) and Tyuonyi Dump Site (DS)

PHOTOGRAPH

15

VIEW

East

**PHOTOGRAPHS
BY**

Baker



Comments: DS – SB03; only boring that was drilled with hand auger, all others shoveled (2012)

PHOTOGRAPH

16

VIEW

Southeast

**PHOTOGRAPHS
BY**

Baker



Comments: DS – SB05 (2012)

Baker

Michael Baker Jr., Inc.
ATTACHMENT B

Documentation

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

☐ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE BAODELIER NM		PROJECT NO. PASI 128555 SUBS	PROJECT LOCATION (STATE) NM	MATRIX TYPE		REQUIRED ANALYSIS										PAGE 1	OF					
TAL (LAB) PROJECT MANAGER J. LANIER		P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8260 B	VOCs	B015 B	GAD	B015 B	DRO	B270C	SVOC	G010 B	TAL METALS	TALIA	MERCURY	STANDARD REPORT DELIVERY	
CLIENT (SITE) PM ED KLEINKAUF		CLIENT PHONE 412-269-4688	CLIENT FAX 412-375-3999																		DATE DUE	
CLIENT NAME MICHAEL BAKER JR		CLIENT E-MAIL EKLEINKAUF@MBAKERCORP.COM																			EXPEDITED REPORT DELIVERY (SURCHARGE)	
CLIENT ADDRESS 100 AIRSIDE DRIVE, MOON TWP, PA 15108		COMPANY CONTRACTING THIS WORK (if applicable) NATIONAL PARK SERVICE																			DATE DUE	
SAMPLE		SAMPLE IDENTIFICATION																		NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 3		
DATE	TIME																			REMARKS		
10/11/12	0930	BAND-DS-SB01-00																				
10/11/12	1000	BAND-DS-SB02-00																				
10/11/12	1030	BAND-DS-SB03-03																				
10/11/12	1100	BAND-DS-SB04-00																				
10/11/12	1130	BAND-DS-SB05-00																				
RELINQUISHED BY: (SIGNATURE) <i>E. J. Kleinkauf</i>		DATE 10/12/12	TIME 1200 ⁺	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME							
RECEIVED BY: (SIGNATURE) <i>FED EX</i>		DATE 10/12/12	TIME 1200 ⁺	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME							
LABORATORY USE ONLY																						
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Beth A Daugherty</i>		DATE 10/13/12	TIME 1101	CUSTODY INTACT YES ☐ NO ☐	CUSTODY SEAL NO.	SAVANNAH LOG NO. 6680-83781	LABORATORY REMARKS Temp 3.4°C, 5.9°C, 5.2°C															

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client MICHAEL BAKER JR., INC.		Project Manager ED KLEINKAUF		Date 10/12/2012	Chain of Custody Number 156794
Address 100 AIRSIDE DRIVE		Telephone Number (Area Code)/Fax Number 412-269-4688		Lab Number	
City MOORE TWP,	State PA	Zip Code 15108	Site Contact EJK	Lab Contact J. LANIER	Page 1 of 1

Project Name and Location (State) BAND PA/ST - NEW MEXICO		Carrier/Waybill Number		Analysis (Attach list if more space is needed)	
Contract/Purchase Order/Quote No. 128555 PAST SUBS					

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						Analysis (Attach list if more space is needed)						Special Instructions/ Conditions of Receipt
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH							
BAND-ALF-TP01-00	10/10/12	1015				X							X	X	X	X	X	X	
BAND-ALF-TP02-00	10/10/12	1115				X							X	X	X	X	X	X	
BAND-ALF-TP03-00	10/10/12	1215				X							X	X	X	X	X	X	
BAND-ALF-TP04-00	10/10/12	1315				X							X	X	X	X	X	X	
BAND-ALF-TP05-00	10/10/12	1415				X							X	X	X	X	X	X	
BAND-ALF-TP06-00	10/10/12	1515				X							X	X	X	X	X	X	
BAND-ALF-TP01-00D	10/10/12	1015				X							X	X	X	X	X	X	Duplicate
BAND-TP01	10/10/12	1000	X							X			X						TRIP BLANK

Possible Hazard Identification	Sample Disposal	QC Requirements (Specify)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required	QC Requirements (Specify)
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other _____	

1. Relinquished By <i>E. J. Kleinkauf</i>	Date 10/12/12	Time 1200^h	1. Received By Fed Ex	Date 10/12/12	Time 1200^h
2. Relinquished By	Date	Time	2. Received By Beth A Daugherty	Date 10-13-12	Time 1101
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

680-83781 **Temp 5.4°C, 5.9°C, 5.2°C**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

PROJECT / WORK AREA SAFETY ASSESSMENT (PSA)

2382JH205

JOB NO.

MICHAEL BAKER CORPORATION

CLIENT

ED KLEINKAUF

CONTACT

10/10/12 TBA

DATE TIME

BANDELIER NACIONAL MONUMENT, LOS ALAMOS, NM

WORK AREA / SITE ADDRESS / LOCATION

412-491-3769

TELEPHONE

PROTOCOL /

PROJECT TYPE: ☒ GEOTECHNICAL ☐ MATERIALS ☐ O&T CALL ☐ O&T CONT. ☒ DRILL / EXCAVATION ☐ ENVIRONMENTAL ☐ DOVE TAIL ☐

HAZARD POTENTIAL NOTED / DISCUSSED PER 29 CFR 1910 & 1926

- | | | | | |
|--|---|--|---|---|
| ☒ WALKING / WORKING SURFACES | ☐ PORTABLE EQUIPMENT | ☐ EXPLOSIVES | ☐ COMBUSTIBLES | ☐ EYE EXPOSURE |
| ☒ UNDERGROUND UTILITIES / OBJECTS | ☐ MECHANICAL DEVICES | ☐ ION RADIATION | ☐ SPRAY PAINTING | ☐ MOTOR VEHICLES |
| ☐ OVERHEAD UTILITIES / OBJECTS | ☐ HAND TOOLS / JACKS | ☐ NOISE | ☐ ABRASIVES | ☐ HEAT STRESS |
| ☐ OVERHEAD DANGERS / FALLING OBJECTS / CRANES | ☐ COMPRESSED GASES | ☐ FLAMMABLES | ☐ POWER TOOLS | ☐ COLD EXPOSURE |
| ☐ ELECTRICAL SYSTEMS / EQUIPMENT | ☐ ERGONOMIC FATIGUE | | | |
| ☐ WELDING / CUTTING / BRAZING | ☐ FORM WORK | | | |
| ☒ CONSTRUCTION / SPECIAL EQUIPMENT | ☐ STEEL ERECTION | | | |
| ☐ TOXIC / UNSTABLE / HAZARDOUS MATERIALS | ☐ DEMOLITION | | | |
| ☐ MANLIFTS / PLATFORMS / SCAFFOLDING | ☐ BLASTING | | | |
| ☐ DRILL RIGS / ASSOCIATED EQUIPMENT | ☒ EXCAVATIONS | | | |
| ☒ GENERAL WORK SITE CONDITIONS | ☐ AIR CONDITIONS | | | |

PREVENTION MEASURES DISCUSSED / PROVIDED

- ☐ Never work near or with machinery wearing loose, ragged or baggy clothing or jewelry. Long hair must be adequately covered / protected. Smoking, alcohol or drug usage are not allowed.
- ☐ Never operate a drill rig with less than a two-person crew, allow no one within 20 feet of rig without a hard hat and never operate within 20 feet of overhead lines of any nature. Boom must always be lowered prior to and during moving from one hole location to another.
- ☒ Never excavate or drill holes on projects that have not been properly blue staked or marked by private locator responsible for providing such services.
- ☐ Always wear appropriate protective clothing including leather or rubber work gloves, foot, body, ear, skin and hard hat protection, etc. Do not begin activities without establishing that such is on hand to protect against abrasions, cuts, burns, heat and cold exposure, noise and eye damage.
- ☐ Never eat, drink or smoke in areas not designated for those purposes.
- ☐ Respiratory fits not acceptable on personnel wearing facial hair or contact lenses.
- ☒ After work has been scheduled and before workers or other personnel, regardless of purpose are due to arrive, everything should be ready to start work. The Project Manager's part of this form should be completed, and the applicable Special Safety Permit acquired, if determined to be necessary. If worker has any questions about the safety of his job, he should consult the Project Manager, Managing Director or the Health and Safety Coordinator prior to signing below.
- ☐ THIS IS NOT A PERMIT! This form is to be used as a means of communication between all individual employees involved on the project to help establish appropriate safety criteria and whether one or more of the following permits may be required for use in addition to the observations made (check appropriate box):
- ☐ Entry Permit ☐ Hazardous Materials Site Permit ☐
- ☐ Fire/Safety ☐ Client/Contractor Permit ☐
- Permits must be completed / approved by the MD or H&S Director.

SPECIAL EQUIPMENT

- | | |
|---|---|
| ☐ Decontamination Needs, Procedures | ☐ Respiratory Protection |
| ☐ Special Testing Equipment, Calibration | ☐ Safety Harness, Line |
| ☐ Lock Out / Tag Out Procedures | ☐ Permitted CSE |
| ☐ | ☐ |

SPECIAL PROCEDURES

- | | |
|--|---|
| ☐ Radiation Safety | ☐ Surveillance |
| ☐ Decontamination | ☐ MSDS Review |
| ☐ Ventilation | ☐ Traffic Control |
| ☒ Rigging, Equipment | ☐ Machine Guarding |
| ☐ Ingress / Egress | ☐ Emergency Procedures |
| ☐ | |

SPECIAL PROTECTION

- | | |
|---|--|
| ☒ Water | ☐ Level C (Tyvek Suits, 7600 Half-Face North Respirator, Rubber Gloves & Boots, Hard Hat) |
| ☒ Telephone, Radio, etc. | |
| ☒ Fire Extinguisher(s) | |
| ☒ First Aid Kit | ☐ Level D (Appropriate Clothing including Footwear, Gloves & Hard Hat) |
| ☒ Safety Glasses, Goggles | |
| ☐ Ear Plugs / Ear Muffs | ☐ |
| ☐ | |

SPECIAL SITE CONSIDERATIONS

- | | |
|--|--|
| ☐ Check In / Check Out | ☐ Non-Permitted, Unsafe Areas / Aircraft |
| ☐ Special Work Zones | ☐ Use & Storage of Testing Equipment |
| ☐ Parking, Use of Vehicle | ☐ Use of Ladder / Scaffold, On-Site Equipment |
| ☒ Orange vest | |
| ☐ | |

OTHER NOTATIONS / COMMENTS

Stay out of swing radius of trackhoe, watch for any unusual debris
Make eye contact with operator and signal to stop digging ops before approaching pit
Do not get too close to trench, cave in's possible, never get behind machine while it's operating

EMERGENCY PROCEDURES

MINOR INJURIES: CUTS, ABRASIONS, BUMPS, NOSE BLEEDS — IMMEDIATELY ADMINISTER FIRST AID
MAJOR INJURIES: ADMINISTER FIRST AID; GO TO NEAREST HOSPITAL OR CLINIC SHOWN ON ACCOMPANYING MAP;
CONTACT SUPERVISOR; COMPLETE EMPLOYEE ACCIDENT REPORT

SITE REQUIREMENTS

HOSPITAL / CLINIC **LOS ALAMOS MEDICAL CENTER**

ADDRESS **3917 WEST ROAD, LOS ALAMOS, NM**

DIRECTIONS **SEE ATTACHED**

PARAMEDIC'S TELEPHONE **911**

TELEPHONE **505-661-9100**

CLIENT EMERGENCY TELEPHONE NO.
& SUPERINTENDENT / MANAGER NO.

PRINT & SIGN NAME

PROJECT MANAGER <i>Rodney Hamma</i>	<i>Brigit Jacobs</i>	<i>ED KLEINKAUF</i>
<i>Stan</i>	<i>Stewart Robertson</i>	<i>E.J. Shinsky</i>
	<i>SKF</i>	

Baker

Michael Baker Jr., Inc.
ATTACHMENT C

Laboratory Analytical Report

Sample Login Acknowledgement

Job 680-83781-1

Client Job Description:	NPS Bandelier National Monument	Report To:	Michael Baker Jr., Inc.
Purchase Order #:	Purchase Order Requested		Ed Kleinkauf
Work Order #:			Airside Business Park
Project Manager:	Jerry Lanier		100 Airside Drive
Job Due Date:	10/26/2012		Moon Township, PA 15108
Job TAT:	10 Days		
Max Deliverable Level:	II	Bill To:	Michael Baker Jr., Inc.
			Ed Kleinkauf
Earliest Deliverable Due:	10/26/2012		Airside Business Park
			100 Airside Drive
			Moon Township, PA 15108

Login 680-83781

Sample Receipt:	10/13/2012 11:01:00 AM	Number of Coolers:	3
Method of Delivery:	FedEx Saturday Delivery	Cooler Temperature(s) (C°):	5.4; 5.9; 5.2;

Lab Sample #	Client Sample ID	Date Sampled	Matrix		
Method	Method Description / Work Location			Rpt Basis	Dry / Wet **
680-83781-1	BAND-DS-SB01-00	10/11/2012 9:30:00 AM	Solid		
6010B	TAL Metals (less Mercury) / In-Lab			Total	Dry
7471A	Mercury / In-Lab			Total	Dry
8015B_DRO	DRO / In-Lab			Total	Dry
8015B_GRO	GRO / In-Lab			Total	Dry
8260B	Volatiles / In-Lab			Total	Dry
8270C	Semivolatiles / In-Lab			Total	Dry
Moisture	Percent Moisture / In-Lab			Total	Wet
680-83781-2	BAND-DS-SB02-00	10/11/2012 10:00:00 AM	Solid		
6010B	TAL Metals (less Mercury) / In-Lab			Total	Dry
7471A	Mercury / In-Lab			Total	Dry
8015B_DRO	DRO / In-Lab			Total	Dry
8015B_GRO	GRO / In-Lab			Total	Dry
8260B	Volatiles / In-Lab			Total	Dry
8270C	Semivolatiles / In-Lab			Total	Dry
Moisture	Percent Moisture / In-Lab			Total	Wet
680-83781-3	BAND-DS-SB03-03	10/11/2012 10:30:00 AM	Solid		
6010B	TAL Metals (less Mercury) / In-Lab			Total	Dry
7471A	Mercury / In-Lab			Total	Dry
8015B_DRO	DRO / In-Lab			Total	Dry
8015B_GRO	GRO / In-Lab			Total	Dry
8260B	Volatiles / In-Lab			Total	Dry
8270C	Semivolatiles / In-Lab			Total	Dry
Moisture	Percent Moisture / In-Lab			Total	Wet
680-83781-4	BAND-DS-SB04-00	10/11/2012 11:00:00 AM	Solid		
6010B	TAL Metals (less Mercury) / In-Lab			Total	Dry
7471A	Mercury / In-Lab			Total	Dry
8015B_DRO	DRO / In-Lab			Total	Dry
8015B_GRO	GRO / In-Lab			Total	Dry
8260B	Volatiles / In-Lab			Total	Dry
8270C	Semivolatiles / In-Lab			Total	Dry
Moisture	Percent Moisture / In-Lab			Total	Wet
680-83781-5	BAND-DS-SB05-00	10/11/2012 11:30:00 AM	Solid		
6010B	TAL Metals (less Mercury) / In-Lab			Total	Dry
7471A	Mercury / In-Lab			Total	Dry
8015B_DRO	DRO / In-Lab			Total	Dry
8015B_GRO	GRO / In-Lab			Total	Dry
8260B	Volatiles / In-Lab			Total	Dry

* Method on-hold

** Wet/Dry indicates whether the reported results will be corrected for moisture content, and based on sample Wet weight or Dry weight.

Sample Login Acknowledgement

Lab Sample #	Client Sample ID	Date Sampled	Matrix		
Method	Method Description / Work Location			Rpt Basis	Dry / Wet **
8270C	Semivolatiles / In-Lab			Total	Dry
Moisture	Percent Moisture / In-Lab			Total	Wet
680-83781-6	BAND-ALF-TP01-00	10/10/2012 10:15:00 AM	Solid		
6010B	TAL Metals (less Mercury) / In-Lab			Total	Dry
7471A	Mercury / In-Lab			Total	Dry
8015B_DRO	DRO / In-Lab			Total	Dry
8015B_GRO	GRO / In-Lab			Total	Dry
8260B	Volatiles / In-Lab			Total	Dry
8270C	Semivolatiles / In-Lab			Total	Dry
Moisture	Percent Moisture / In-Lab			Total	Wet
680-83781-7	BAND-ALF-TP02-00	10/10/2012 11:15:00 AM	Solid		
6010B	TAL Metals (less Mercury) / In-Lab			Total	Dry
7471A	Mercury / In-Lab			Total	Dry
8015B_DRO	DRO / In-Lab			Total	Dry
8015B_GRO	GRO / In-Lab			Total	Dry
8260B	Volatiles / In-Lab			Total	Dry
8270C	Semivolatiles / In-Lab			Total	Dry
Moisture	Percent Moisture / In-Lab			Total	Wet
680-83781-8	BAND-ALF-TP03-00	10/10/2012 12:15:00 PM	Solid		
6010B	TAL Metals (less Mercury) / In-Lab			Total	Dry
7471A	Mercury / In-Lab			Total	Dry
8015B_DRO	DRO / In-Lab			Total	Dry
8015B_GRO	GRO / In-Lab			Total	Dry
8260B	Volatiles / In-Lab			Total	Dry
8270C	Semivolatiles / In-Lab			Total	Dry
Moisture	Percent Moisture / In-Lab			Total	Wet
680-83781-9	BAND-ALF-TP04-00	10/10/2012 1:15:00 PM	Solid		
6010B	TAL Metals (less Mercury) / In-Lab			Total	Dry
7471A	Mercury / In-Lab			Total	Dry
8015B_DRO	DRO / In-Lab			Total	Dry
8015B_GRO	GRO / In-Lab			Total	Dry
8260B	Volatiles / In-Lab			Total	Dry
8270C	Semivolatiles / In-Lab			Total	Dry
Moisture	Percent Moisture / In-Lab			Total	Wet
680-83781-10	BAND-ALF-TP05-00	10/10/2012 2:15:00 PM	Solid		
6010B	TAL Metals (less Mercury) / In-Lab			Total	Dry
7471A	Mercury / In-Lab			Total	Dry
8015B_DRO	DRO / In-Lab			Total	Dry
8015B_GRO	GRO / In-Lab			Total	Dry
8260B	Volatiles / In-Lab			Total	Dry
8270C	Semivolatiles / In-Lab			Total	Dry
Moisture	Percent Moisture / In-Lab			Total	Wet
680-83781-11	BAND-ALF-TP06-00	10/10/2012 3:15:00 PM	Solid		
6010B	TAL Metals (less Mercury) / In-Lab			Total	Dry
7471A	Mercury / In-Lab			Total	Dry
8015B_DRO	DRO / In-Lab			Total	Dry
8015B_GRO	GRO / In-Lab			Total	Dry
8260B	Volatiles / In-Lab			Total	Dry
8270C	Semivolatiles / In-Lab			Total	Dry
Moisture	Percent Moisture / In-Lab			Total	Wet
680-83781-12	BAND-ALF-TP01-00D	10/10/2012 10:15:00 AM	Solid		
6010B	TAL Metals (less Mercury) / In-Lab			Total	Dry
7471A	Mercury / In-Lab			Total	Dry
8015B_DRO	DRO / In-Lab			Total	Dry
8015B_GRO	GRO / In-Lab			Total	Dry

* Method on-hold

** Wet/Dry indicates whether the reported results will be corrected for moisture content, and based on sample Wet weight or Dry weight.

Sample Login Acknowledgement

Lab Sample #	Client Sample ID	Date Sampled	Matrix		
Method	Method Description / Work Location			Rpt Basis	Dry / Wet **
8260B	Volatiles / In-Lab			Total	Dry
8270C	Semivolatiles / In-Lab			Total	Dry
Moisture	Percent Moisture / In-Lab			Total	Wet
680-83781-13	BAND-TB01	10/10/2012 10:00:00 AM	Water		
8260B	Volatiles / In-Lab			Total	Wet

* Method on-hold

** Wet/Dry indicates whether the reported results will be corrected for moisture content, and based on sample Wet weight or Dry weight.

Sample Login Analytes / Limits

Job 680-83781-1

Client Job Description:	NPS Bandelier National Monument	Report To:	Michael Baker Jr., Inc.
Purchase Order #:	Purchase Order Requested		Ed Kleinkauf
Work Order #:			Airside Business Park
Project Manager:	Jerry Lanier		100 Airside Drive
Job Due Date:	10/26/2012		Moon Township, PA 15108
Job TAT:	10 Days		
Max Deliverable Level:	II	Bill To:	Michael Baker Jr., Inc.
			Ed Kleinkauf
Earliest Deliverable Due:	10/26/2012		Airside Business Park
			100 Airside Drive
			Moon Township, PA 15108

Login 680-83781

Sample Receipt:	10/13/2012 11:01:00 AM	Number of Coolers:	3
Method of Delivery:	FedEx Saturday Delivery	Cooler Temperature(s) (C°):	5.4; 5.9; 5.2;

Method	Method Description	Rpt Basis			Units	Sample #s Applicable
6010B	TAL Metals (less Mercury)	Total	MDL	RL		1,2,3,4,5,6,7,8,9,10,11,12
	Aluminum		10	20	mg/Kg	
	Antimony		0.53	2	mg/Kg	
	Arsenic		0.59	2	mg/Kg	
	Barium		0.3	1	mg/Kg	
	Beryllium		0.02	0.4	mg/Kg	
	Cadmium		0.1	0.5	mg/Kg	
	Calcium		20	50	mg/Kg	
	Chromium		0.5	1	mg/Kg	
	Cobalt		0.12	1	mg/Kg	
	Copper		1.1	2.5	mg/Kg	
	Iron		7	20	mg/Kg	
	Lead		0.53	1	mg/Kg	
	Magnesium		2.4	50	mg/Kg	
	Manganese		0.3	1	mg/Kg	
	Nickel		0.31	4	mg/Kg	
	Potassium		8	100	mg/Kg	
	Selenium		1	2.5	mg/Kg	
	Silver		0.096	1	mg/Kg	
	Sodium		82	200	mg/Kg	
	Thallium		0.99	2.5	mg/Kg	
	Vanadium		0.24	1	mg/Kg	
	Zinc		1.2	2	mg/Kg	
7471A	Mercury	Total	MDL	RL		1,2,3,4,5,6,7,8,9,10,11,12
	Mercury		0.0082	0.02	mg/Kg	
8015B_DRO	DRO	Total	MDL	RL		1,2,3,4,5,6,7,8,9,10,11,12
	C10-C28		2.1	3.3	mg/Kg	
8015B_GRO	GRO	Total	MDL	RL		1,2,3,4,5,6,7,8,9,10,11,12
	Gasoline Range Organics (GRO)-C6-C10		0.019	0.25	mg/Kg	
8260B	Volatiles	Total	MDL	RL		1,2,3,4,5,6,7,8,9,10,11,12
	1,1,1-Trichloroethane		0.59	5	ug/Kg	
	1,1,2,2-Tetrachloroethane		1.6	5	ug/Kg	
	1,1,2-Trichloro-1,2,2-trifluoroethane		1.3	5	ug/Kg	
	1,1,2-Trichloroethane		1.3	5	ug/Kg	
	1,1-Dichloroethane		1.1	5	ug/Kg	
	1,1-Dichloroethene		1.5	5	ug/Kg	
	1,2,4-Trichlorobenzene		0.89	5	ug/Kg	
	1,2-Dibromo-3-Chloropropane		4.4	10	ug/Kg	
	1,2-Dibromoethane		1.5	5	ug/Kg	
	1,2-Dichlorobenzene		1.3	5	ug/Kg	
	1,2-Dichloroethane		1.1	5	ug/Kg	
	1,2-Dichloropropane		0.86	5	ug/Kg	

Sample Login Analytes / Limits

Method	Method Description	Rpt Basis		Units	Sample #s Applicable
	1,3-Dichlorobenzene	1.6	5	ug/Kg	
	1,4-Dichlorobenzene	0.74	5	ug/Kg	
	2-Butanone	2.4	25	ug/Kg	
	2-Hexanone	3.3	25	ug/Kg	
	4-Methyl-2-pentanone	4.2	25	ug/Kg	
	Acetone	11	50	ug/Kg	
	Benzene	0.73	5	ug/Kg	
	Bromodichloromethane	0.97	5	ug/Kg	
	Bromoform	1.5	5	ug/Kg	
	Bromomethane	1.5	5	ug/Kg	
	Carbon disulfide	1.1	5	ug/Kg	
	Carbon tetrachloride	0.83	5	ug/Kg	
	Chlorobenzene	0.96	5	ug/Kg	
	Chloroethane	2.7	5	ug/Kg	
	Chloroform	1.1	5	ug/Kg	
	Chloromethane	1	5	ug/Kg	
	cis-1,2-Dichloroethene	1.4	5	ug/Kg	
	cis-1,3-Dichloropropene	0.83	5	ug/Kg	
	Cyclohexane	1.3	10	ug/Kg	
	Dibromochloromethane	1.7	5	ug/Kg	
	Dichlorodifluoromethane	0.94	5	ug/Kg	
	Ethylbenzene	1.3	5	ug/Kg	
	Isopropylbenzene	1.9	5	ug/Kg	
	Methyl acetate	5	10	ug/Kg	
	Methyl tert-butyl ether	1	10	ug/Kg	
	Methylcyclohexane	0.86	10	ug/Kg	
	Methylene Chloride	0.98	5	ug/Kg	
	Styrene	0.93	5	ug/Kg	
	Tetrachloroethene	1.9	5	ug/Kg	
	Toluene	0.84	5	ug/Kg	
	trans-1,2-Dichloroethene	0.63	5	ug/Kg	
	trans-1,3-Dichloropropene	0.87	5	ug/Kg	
	Trichloroethene	1.3	5	ug/Kg	
	Trichlorofluoromethane	1.2	5	ug/Kg	
	Vinyl chloride	1.5	5	ug/Kg	
	Xylenes, Total	1.1	10	ug/Kg	
8260B	Volatiles	Total	MDL	RL	13
	1,1,1-Trichloroethane	0.5	1	ug/L	
	1,1,2,2-Tetrachloroethane	0.18	1	ug/L	
	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	1	ug/L	
	1,1,2-Trichloroethane	0.13	1	ug/L	
	1,1-Dichloroethane	0.25	1	ug/L	
	1,1-Dichloroethene	0.11	1	ug/L	
	1,2,4-Trichlorobenzene	0.25	1	ug/L	
	1,2-Dibromo-3-Chloropropane	0.44	1	ug/L	
	1,2-Dibromoethane	0.25	1	ug/L	
	1,2-Dichlorobenzene	0.21	1	ug/L	
	1,2-Dichloroethane	0.1	1	ug/L	
	1,2-Dichloropropane	0.13	1	ug/L	
	1,3-Dichlorobenzene	0.25	1	ug/L	
	1,4-Dichlorobenzene	0.28	1	ug/L	
	2-Butanone	1	10	ug/L	
	2-Hexanone	1	10	ug/L	
	4-Methyl-2-pentanone	1	10	ug/L	
	Acetone	5	25	ug/L	
	Benzene	0.25	1	ug/L	
	Bromodichloromethane	0.25	1	ug/L	
	Bromoform	0.5	1	ug/L	
	Bromomethane	0.8	1	ug/L	
	Carbon disulfide	0.6	2	ug/L	

Sample Login Analytes / Limits

Method	Method Description	Rpt Basis		Units	Sample #s Applicable
8270C	Carbon tetrachloride	0.5	1	ug/L	1,2,3,4,5,6,7,8,9,10,11,12
	Chlorobenzene	0.25	1	ug/L	
	Chloroethane	1	1	ug/L	
	Chloroform	0.14	1	ug/L	
	Chloromethane	0.33	1	ug/L	
	cis-1,2-Dichloroethene	0.15	1	ug/L	
	cis-1,3-Dichloropropene	0.11	1	ug/L	
	Cyclohexane	0.25	1	ug/L	
	Dibromochloromethane	0.1	1	ug/L	
	Dichlorodifluoromethane	0.25	1	ug/L	
	Ethylbenzene	0.11	1	ug/L	
	Isopropylbenzene	0.1	1	ug/L	
	Methyl acetate	0.19	1	ug/L	
	Methyl tert-butyl ether	0.2	10	ug/L	
	Methylcyclohexane	0.1	1	ug/L	
	Methylene Chloride	1	5	ug/L	
	Styrene	0.11	1	ug/L	
	Tetrachloroethene	0.15	1	ug/L	
	Toluene	0.33	1	ug/L	
	trans-1,2-Dichloroethene	0.2	1	ug/L	
	trans-1,3-Dichloropropene	0.21	1	ug/L	
	Trichloroethene	0.13	1	ug/L	
	Trichlorofluoromethane	0.25	1	ug/L	
	Vinyl chloride	0.18	1	ug/L	
	Xylenes, Total	0.2	2	ug/L	
8270C	Semivolatiles	Total	MDL	RL	1,2,3,4,5,6,7,8,9,10,11,12
	1,1'-Biphenyl	740	330	ug/Kg	
	2,4,5-Trichlorophenol	35	330	ug/Kg	
	2,4,6-Trichlorophenol	29	330	ug/Kg	
	2,4-Dichlorophenol	35	330	ug/Kg	
	2,4-Dimethylphenol	44	330	ug/Kg	
	2,4-Dinitrophenol	830	1700	ug/Kg	
	2,4-Dinitrotoluene	49	330	ug/Kg	
	2,6-Dinitrotoluene	42	330	ug/Kg	
	2-Chloronaphthalene	35	330	ug/Kg	
	2-Chlorophenol	40	330	ug/Kg	
	2-Methylnaphthalene	38	330	ug/Kg	
	2-Methylphenol	27	330	ug/Kg	
	2-Nitroaniline	45	1700	ug/Kg	
	2-Nitrophenol	41	330	ug/Kg	
	3 & 4 Methylphenol	43	330	ug/Kg	
	3,3'-Dichlorobenzidine	28	660	ug/Kg	
	3-Nitroaniline	46	1700	ug/Kg	
	4,6-Dinitro-2-methylphenol	170	1700	ug/Kg	
	4-Bromophenyl phenyl ether	36	330	ug/Kg	
	4-Chloro-3-methylphenol	35	330	ug/Kg	
	4-Chloroaniline	52	660	ug/Kg	
	4-Chlorophenyl phenyl ether	44	330	ug/Kg	
	4-Nitroaniline	49	1700	ug/Kg	
	4-Nitrophenol	330	1700	ug/Kg	
	Acenaphthene	41	330	ug/Kg	
	Acenaphthylene	36	330	ug/Kg	
	Acetophenone	28	330	ug/Kg	
	Anthracene	25	330	ug/Kg	
	Atrazine	23	330	ug/Kg	
	Benzaldehyde	58	330	ug/Kg	
	Benzo[a]anthracene	27	330	ug/Kg	
	Benzo[a]pyrene	52	330	ug/Kg	
	Benzo[b]fluoranthene	38	330	ug/Kg	
	Benzo[g,h,i]perylene	22	330	ug/Kg	

Sample Login Analytes / Limits

Method	Method Description	Rpt Basis		Units	Sample #s Applicable
	Benzo[k]fluoranthene	65	330	ug/Kg	
	bis (2-chloroisopropyl) ether	30	330	ug/Kg	
	Bis(2-chloroethoxy)methane	39	330	ug/Kg	
	Bis(2-chloroethyl)ether	45	330	ug/Kg	
	Bis(2-ethylhexyl) phthalate	29	330	ug/Kg	
	Butyl benzyl phthalate	26	330	ug/Kg	
	Caprolactam	66	330	ug/Kg	
	Carbazole	30	330	ug/Kg	
	Chrysene	21	330	ug/Kg	
	Di-n-butyl phthalate	30	330	ug/Kg	
	Di-n-octyl phthalate	29	330	ug/Kg	
	Dibenz(a,h)anthracene	39	330	ug/Kg	
	Dibenzofuran	33	330	ug/Kg	
	Diethyl phthalate	37	330	ug/Kg	
	Dimethyl phthalate	34	330	ug/Kg	
	Fluoranthene	32	330	ug/Kg	
	Fluorene	36	330	ug/Kg	
	Hexachlorobenzene	39	330	ug/Kg	
	Hexachlorobutadiene	36	330	ug/Kg	
	Hexachlorocyclopentadiene	41	330	ug/Kg	
	Hexachloroethane	28	330	ug/Kg	
	Indeno[1,2,3-cd]pyrene	28	330	ug/Kg	
	Isophorone	33	330	ug/Kg	
	N-Nitrosodi-n-propylamine	32	330	ug/Kg	
	N-Nitrosodiphenylamine	33	330	ug/Kg	
	Naphthalene	30	330	ug/Kg	
	Nitrobenzene	26	330	ug/Kg	
	Pentachlorophenol	330	1700	ug/Kg	
	Phenanthrene	27	330	ug/Kg	
	Phenol	34	330	ug/Kg	
	Pyrene	27	330	ug/Kg	
Moisture	Percent Moisture	Total	RL	RL	1,2,3,4,5,6,7,8,9,10,11,12
	Percent Moisture		0.01	0.01	%

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

☐ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE BAODELIER NM		PROJECT NO. PASI 128555 SUBS	PROJECT LOCATION (STATE) NM	MATRIX TYPE	REQUIRED ANALYSIS										PAGE 1	OF			
TAL (LAB) PROJECT MANAGER J. LANIER		P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8260 B VOCs B015 B GAD B015 B DRO B270C SVOC G010 B TAL METALS TATIA MERCURY	PRESERVATIVE											STANDARD REPORT DELIVERY DATE DUE _____		
CLIENT (SITE) PM ED KLEINKAUF		CLIENT PHONE 412-269-4688	CLIENT FAX 412-375-3999														EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE _____		
CLIENT NAME MICHAEL BAKER JR		CLIENT E-MAIL EKLEINKAUF@MBAKERCORP.COM															NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 3		
CLIENT ADDRESS 100 AIRSIDE DRIVE, MOON TWP, PA 15108																			
COMPANY CONTRACTING THIS WORK (if applicable) NATIONAL PARK SERVICE																			
SAMPLE		SAMPLE IDENTIFICATION														NUMBER OF CONTAINERS SUBMITTED		REMARKS	
DATE	TIME																		
10/11/12	0930	BAND-DS-SB01-00																	
10/11/12	1000	BAND-DS-SB02-00																	
10/11/12	1030	BAND-DS-SB03-03																	
10/11/12	1100	BAND-DS-SB04-00																	
10/11/12	1130	BAND-DS-SB05-00																	
RELINQUISHED BY: (SIGNATURE) <i>E. J. Kleinkauf</i>		DATE 10/12/12	TIME 1200⁺	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME				
RECEIVED BY: (SIGNATURE) FED EX		DATE 10/12/12	TIME 1200⁺	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME				
LABORATORY USE ONLY																			
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Beth A Daugherty</i>		DATE 10/13/12	TIME 1101	CUSTODY INTACT YES ☐ NO ☐		CUSTODY SEAL NO.		SAVANNAH LOG NO. 680-83781		LABORATORY REMARKS Temp 3.4°C, 5.9°C, 5.2°C									

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client MICHAEL BAKER JR., INC.		Project Manager ED KLEINKAUF		Date 10/12/2012	Chain of Custody Number 156794
Address 100 AIRSIDE DRIVE		Telephone Number (Area Code)/Fax Number 412-269-4688		Lab Number	
City MOORE TWP,	State PA	Zip Code 15108	Site Contact EJK	Lab Contact J. LANIER	Page 1 of 1

Project Name and Location (State) BAND PA/ST - NEW MEXICO		Carrier/Waybill Number		Analysis (Attach list if more space is needed)	
Contract/Purchase Order/Quote No. 128555 PAST SUBS					

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						Analysis (Attach list if more space is needed)						Special Instructions/ Conditions of Receipt
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH							
BAND-ALF-TP01-00	10/10/12	1015				X							X	X	X	X	X	X	
BAND-ALF-TP02-00	10/10/12	1115				X							X	X	X	X	X	X	
BAND-ALF-TP03-00	10/10/12	1215				X							X	X	X	X	X	X	
BAND-ALF-TP04-00	10/10/12	1315				X							X	X	X	X	X	X	
BAND-ALF-TP05-00	10/10/12	1415				X							X	X	X	X	X	X	
BAND-ALF-TP06-00	10/10/12	1515				X							X	X	X	X	X	X	
BAND-ALF-TP01-00D	10/10/12	1015				X							X	X	X	X	X	X	Duplicate
BAND-TP01	10/10/12	1000	X							X			X						TRIP BLANK

Possible Hazard Identification	Sample Disposal	QC Requirements (Specify)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required	QC Requirements (Specify)
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other _____	

1. Relinquished By <i>E. J. Kleinkauf</i>	Date 10/12/12	Time 1200^h	1. Received By Fed Ex	Date 10/12/12	Time 1200^h
2. Relinquished By	Date	Time	2. Received By Beth A Daugherty	Date 10-13-12	Time 1101
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

680-83781 **Temp 5.4°C, 5.9°C, 5.2°C**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-83781-1

Client Project/Site: NPS Bandelier National Monument

For:

Michael Baker Jr., Inc.

Airside Business Park

100 Airside Drive

Moon Township, Pennsylvania 15108

Attn: Ed Kleinkauf



Authorized for release by:

10/29/2012 12:20:15 PM

Jerry Lanier

Project Manager I

jerry.lanier@testamericainc.com

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

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

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

Case Narrative

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Job ID: 680-83781-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Michael Baker Jr., Inc.

Project: NPS Bandelier National Monument

Report Number: 680-83781-1

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

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

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

RECEIPT

The samples were received on 10/13/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2° C, 5.4° C and 5.9° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples BAND-DS-SB01-00 (680-83781-1), BAND-DS-SB02-00 (680-83781-2), BAND-DS-SB03-03 (680-83781-3), BAND-DS-SB04-00 (680-83781-4), BAND-DS-SB05-00 (680-83781-5), BAND-ALF-TP01-00 (680-83781-6), BAND-ALF-TP02-00 (680-83781-7), BAND-ALF-TP03-00 (680-83781-8), BAND-ALF-TP04-00 (680-83781-9), BAND-ALF-TP05-00 (680-83781-10), BAND-ALF-TP06-00 (680-83781-11) and BAND-ALF-TP01-00D (680-83781-12) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 10/15/2012 and analyzed on 10/20/2012.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample BAND-TB01 (680-83781-13) was analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/18/2012.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples BAND-DS-SB01-00 (680-83781-1), BAND-DS-SB02-00 (680-83781-2), BAND-DS-SB03-03 (680-83781-3), BAND-DS-SB04-00 (680-83781-4), BAND-DS-SB05-00 (680-83781-5), BAND-ALF-TP01-00 (680-83781-6), BAND-ALF-TP02-00 (680-83781-7), BAND-ALF-TP03-00 (680-83781-8), BAND-ALF-TP04-00 (680-83781-9), BAND-ALF-TP05-00 (680-83781-10), BAND-ALF-TP06-00 (680-83781-11) and BAND-ALF-TP01-00D (680-83781-12) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 10/17/2012 and 10/23/2012 and analyzed on 10/24/2012, 10/25/2012 and 10/26/2012.

2,4,6-Tribromophenol, 2-Fluorobiphenyl, Nitrobenzene-d5, Phenol-d5 and Terphenyl-d14 exceeded the surrogate recovery criteria low for BAND-DS-SB01-00 (680-83781-1). Re-extraction and/or re-analysis was performed with concurring results.

Case Narrative

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Job ID: 680-83781-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

2,4,6-Tribromophenol and 2-Fluorobiphenyl exceeded the surrogate recovery criteria low for BAND-ALF-TP05-00 (680-83781-10).
Re-extraction and/or re-analysis was performed. Both sets of data have been reported.

2,4,6-Tribromophenol and 2-Fluorobiphenyl exceeded the surrogate recovery criteria low for BAND-ALF-TP03-00 (680-83781-8).

2,4,6-Tribromophenol exceeded the surrogate recovery criteria low for BAND-ALF-TP01-00D (680-83781-12) and BAND-DS-SB04-00 (680-83781-4).

2,4,6-Tribromophenol and Terphenyl-d14 exceeded the surrogate recovery criteria low for BAND-DS-SB02-00 (680-83781-2).

2,4,6-Tribromophenol, 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5, Phenol-d5 and Terphenyl-d14 exceeded the surrogate recovery criteria low for BAND-DS-SB05-00 (680-83781-5). Re-extraction and/or re-analysis was performed with concurring results.

2-Fluorobiphenyl and Terphenyl-d14 exceeded the surrogate recovery criteria low for LCS 680-253131/14-A.

2,4,6-Tribromophenol exceeded the surrogate recovery criteria low for 680-83781-A-8-C MS.

Nitrobenzene-d5 and Phenol-d5 exceeded the surrogate recovery criteria low for BAND-ALF-TP06-00MSD (680-83781-11MSD).

Refer to the QC report for details.

1,1'-Biphenyl, 4-Bromophenyl phenyl ether, Acenaphthene, Hexachlorobenzene and Naphthalene exceeded the recovery criteria low for LCS 680-253131/14-A. bis (2-chloroisopropyl) ether exceeded the recovery criteria low for LCS 680-253887/22-A. Refer to the QC report for details.

3,3'-Dichlorobenzidine, bis (2-chloroisopropyl) ether, Bis(2-chloroethyl)ether and Caprolactam exceeded the recovery criteria low for the MS of sample BAND-ALF-TP06-00MS (680-83781-11) in batch 680-254243.

Several analytes exceeded the recovery criteria low for the MSD of sample BAND-ALF-TP06-00MSD (680-83781-11) in batch 680-254243.

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

Refer to the QC report for details.

Sample BAND-ALF-TP04-00 (680-83781-9)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the SVOC analyses.

All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples BAND-DS-SB01-00 (680-83781-1), BAND-DS-SB02-00 (680-83781-2), BAND-DS-SB03-03 (680-83781-3), BAND-DS-SB04-00 (680-83781-4), BAND-DS-SB05-00 (680-83781-5), BAND-ALF-TP01-00 (680-83781-6), BAND-ALF-TP02-00 (680-83781-7), BAND-ALF-TP03-00 (680-83781-8), BAND-ALF-TP04-00 (680-83781-9), BAND-ALF-TP05-00 (680-83781-10), BAND-ALF-TP06-00 (680-83781-11) and BAND-ALF-TP01-00D (680-83781-12) were analyzed for Gasoline Range Organics (GRO) in accordance with EPA SW-846 Method 8015B. The samples were prepared on 10/15/2012 and analyzed on 10/15/2012 and 10/18/2012.

Due to the nature of this analysis which involves a total area sum over the entire retention time range, manual integrations are routinely performed for target analytes and surrogates to ensure consistent integration.

a,a,a-Trifluorotoluene exceeded the surrogate recovery criteria high for BAND-DS-SB05-00 (680-83781-5). Refer to the QC report for details.

No other difficulties were encountered during the GRO analyses.

Case Narrative

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Job ID: 680-83781-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All other quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Samples BAND-DS-SB01-00 (680-83781-1), BAND-DS-SB02-00 (680-83781-2), BAND-DS-SB03-03 (680-83781-3), BAND-DS-SB04-00 (680-83781-4), BAND-DS-SB05-00 (680-83781-5), BAND-ALF-TP01-00 (680-83781-6), BAND-ALF-TP02-00 (680-83781-7), BAND-ALF-TP03-00 (680-83781-8), BAND-ALF-TP04-00 (680-83781-9), BAND-ALF-TP05-00 (680-83781-10), BAND-ALF-TP06-00 (680-83781-11) and BAND-ALF-TP01-00D (680-83781-12) were analyzed for Diesel Range Organics (DRO) in accordance with EPA SW-846 Method 8015B. The samples were prepared on 10/17/2012 and analyzed on 10/19/2012.

Due to the nature of this analysis which involves a total area sum over the entire retention time range, manual integrations are routinely performed for target analytes and surrogates to ensure consistent integration.

o-Terphenyl exceeded the surrogate recovery criteria low for BAND-DS-SB05-00 (680-83781-5). Refer to the QC report for details.

No other difficulties were encountered during the DRO analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples BAND-DS-SB01-00 (680-83781-1), BAND-DS-SB02-00 (680-83781-2), BAND-DS-SB03-03 (680-83781-3), BAND-DS-SB04-00 (680-83781-4), BAND-DS-SB05-00 (680-83781-5), BAND-ALF-TP01-00 (680-83781-6), BAND-ALF-TP02-00 (680-83781-7), BAND-ALF-TP03-00 (680-83781-8), BAND-ALF-TP04-00 (680-83781-9), BAND-ALF-TP05-00 (680-83781-10), BAND-ALF-TP06-00 (680-83781-11) and BAND-ALF-TP01-00D (680-83781-12) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 10/15/2012 and analyzed on 10/23/2012 and 10/24/2012.

Sample BAND-DS-SB02-00 (680-83781-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples BAND-DS-SB01-00 (680-83781-1), BAND-DS-SB02-00 (680-83781-2), BAND-DS-SB03-03 (680-83781-3), BAND-DS-SB04-00 (680-83781-4), BAND-DS-SB05-00 (680-83781-5), BAND-ALF-TP01-00 (680-83781-6), BAND-ALF-TP02-00 (680-83781-7), BAND-ALF-TP03-00 (680-83781-8), BAND-ALF-TP04-00 (680-83781-9), BAND-ALF-TP05-00 (680-83781-10), BAND-ALF-TP06-00 (680-83781-11) and BAND-ALF-TP01-00D (680-83781-12) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 10/16/2012 and analyzed on 10/17/2012.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/MOISTURE

Samples BAND-DS-SB01-00 (680-83781-1), BAND-DS-SB02-00 (680-83781-2), BAND-DS-SB03-03 (680-83781-3), BAND-DS-SB04-00 (680-83781-4), BAND-DS-SB05-00 (680-83781-5), BAND-ALF-TP01-00 (680-83781-6), BAND-ALF-TP02-00 (680-83781-7), BAND-ALF-TP03-00 (680-83781-8), BAND-ALF-TP04-00 (680-83781-9), BAND-ALF-TP05-00 (680-83781-10), BAND-ALF-TP06-00 (680-83781-11) and BAND-ALF-TP01-00D (680-83781-12) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 10/14/2012.

No difficulties were encountered during the % solids/moisture analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-83781-1	BAND-DS-SB01-00	Solid	10/11/12 09:30	10/13/12 11:01
680-83781-2	BAND-DS-SB02-00	Solid	10/11/12 10:00	10/13/12 11:01
680-83781-3	BAND-DS-SB03-03	Solid	10/11/12 10:30	10/13/12 11:01
680-83781-4	BAND-DS-SB04-00	Solid	10/11/12 11:00	10/13/12 11:01
680-83781-5	BAND-DS-SB05-00	Solid	10/11/12 11:30	10/13/12 11:01
680-83781-6	BAND-ALF-TP01-00	Solid	10/10/12 10:15	10/13/12 11:01
680-83781-7	BAND-ALF-TP02-00	Solid	10/10/12 11:15	10/13/12 11:01
680-83781-8	BAND-ALF-TP03-00	Solid	10/10/12 12:15	10/13/12 11:01
680-83781-9	BAND-ALF-TP04-00	Solid	10/10/12 13:15	10/13/12 11:01
680-83781-10	BAND-ALF-TP05-00	Solid	10/10/12 14:15	10/13/12 11:01
680-83781-11	BAND-ALF-TP06-00	Solid	10/10/12 15:15	10/13/12 11:01
680-83781-12	BAND-ALF-TP01-00D	Solid	10/10/12 10:15	10/13/12 11:01
680-83781-13	BAND-TB01	Water	10/10/12 10:00	10/13/12 11:01

Method Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8015B	Gasoline Range Organics - (GC)	SW846	TAL SAV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SAV
6010B	Metals (ICP)	SW846	TAL SAV
7471A	Mercury (CVAA)	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB01-00

Lab Sample ID: 680-83781-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	24		3.4		mg/Kg	1	☼	8015B	Total/NA
Aluminum	16000		20		mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.3		2.0		mg/Kg	1	☼	6010B	Total/NA
Barium	63		1.0		mg/Kg	1	☼	6010B	Total/NA
Beryllium	2.2		0.40		mg/Kg	1	☼	6010B	Total/NA
Calcium	2900		50		mg/Kg	1	☼	6010B	Total/NA
Cobalt	1.5		1.0		mg/Kg	1	☼	6010B	Total/NA
Chromium	9.3		1.0		mg/Kg	1	☼	6010B	Total/NA
Copper	7.8		2.5		mg/Kg	1	☼	6010B	Total/NA
Iron	12000		20		mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		100		mg/Kg	1	☼	6010B	Total/NA
Magnesium	2400		50		mg/Kg	1	☼	6010B	Total/NA
Manganese	220		1.0		mg/Kg	1	☼	6010B	Total/NA
Nickel	5.2		4.0		mg/Kg	1	☼	6010B	Total/NA
Lead	6.8		1.0		mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		1.0		mg/Kg	1	☼	6010B	Total/NA
Zinc	44		2.0		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.033		0.021		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: BAND-DS-SB02-00

Lab Sample ID: 680-83781-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	12		3.5		mg/Kg	1	☼	8015B	Total/NA
Aluminum	31000		21		mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.2		2.1		mg/Kg	1	☼	6010B	Total/NA
Barium	140		1.1		mg/Kg	1	☼	6010B	Total/NA
Beryllium	2.4		0.43		mg/Kg	1	☼	6010B	Total/NA
Calcium	4000		54		mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.5		1.1		mg/Kg	1	☼	6010B	Total/NA
Chromium	18		1.1		mg/Kg	1	☼	6010B	Total/NA
Copper	12		2.7		mg/Kg	1	☼	6010B	Total/NA
Iron	23000		21		mg/Kg	1	☼	6010B	Total/NA
Potassium	5200		1100		mg/Kg	10	☼	6010B	Total/NA
Magnesium	4300		54		mg/Kg	1	☼	6010B	Total/NA
Manganese	400		1.1		mg/Kg	1	☼	6010B	Total/NA
Nickel	13		4.3		mg/Kg	1	☼	6010B	Total/NA
Lead	14		1.1		mg/Kg	1	☼	6010B	Total/NA
Vanadium	37		1.1		mg/Kg	1	☼	6010B	Total/NA
Zinc	64		2.1		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.042		0.021		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: BAND-DS-SB03-03

Lab Sample ID: 680-83781-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	22		3.5		mg/Kg	1	☼	8015B	Total/NA
Aluminum	15000		21		mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.9		2.1		mg/Kg	1	☼	6010B	Total/NA
Barium	120		1.1		mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.98		0.43		mg/Kg	1	☼	6010B	Total/NA
Calcium	2900		53		mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.8		1.1		mg/Kg	1	☼	6010B	Total/NA
Chromium	14		1.1		mg/Kg	1	☼	6010B	Total/NA
Copper	10		2.7		mg/Kg	1	☼	6010B	Total/NA

Detection Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB03-03 (Continued)

Lab Sample ID: 680-83781-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	17000		21		mg/Kg	1	☼	6010B	Total/NA
Potassium	3200		110		mg/Kg	1	☼	6010B	Total/NA
Magnesium	3000		53		mg/Kg	1	☼	6010B	Total/NA
Manganese	340		1.1		mg/Kg	1	☼	6010B	Total/NA
Sodium	280		210		mg/Kg	1	☼	6010B	Total/NA
Nickel	9.9		4.3		mg/Kg	1	☼	6010B	Total/NA
Lead	20		1.1		mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		1.1		mg/Kg	1	☼	6010B	Total/NA
Zinc	46		2.1		mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: BAND-DS-SB04-00

Lab Sample ID: 680-83781-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	15		3.4		mg/Kg	1	☼	8015B	Total/NA
Aluminum	15000		19		mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.3		1.9		mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.96		mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.1		0.38		mg/Kg	1	☼	6010B	Total/NA
Calcium	3300		48		mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.1		0.96		mg/Kg	1	☼	6010B	Total/NA
Chromium	10		0.96		mg/Kg	1	☼	6010B	Total/NA
Copper	6.7		2.4		mg/Kg	1	☼	6010B	Total/NA
Iron	14000		19		mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		96		mg/Kg	1	☼	6010B	Total/NA
Magnesium	2200		48		mg/Kg	1	☼	6010B	Total/NA
Manganese	260		0.96		mg/Kg	1	☼	6010B	Total/NA
Nickel	6.9		3.8		mg/Kg	1	☼	6010B	Total/NA
Lead	8.2		0.96		mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.96		mg/Kg	1	☼	6010B	Total/NA
Zinc	36		1.9		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.023		0.020		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: BAND-DS-SB05-00

Lab Sample ID: 680-83781-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	420		340		ug/Kg	1	☼	8270C	Total/NA
Caprolactam	580		340		ug/Kg	1	☼	8270C	Total/NA
C10-C28	230		3.4		mg/Kg	1	☼	8015B	Total/NA
Aluminum	19000		20		mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.5		2.0		mg/Kg	1	☼	6010B	Total/NA
Barium	470		0.98		mg/Kg	1	☼	6010B	Total/NA
Beryllium	2.5		0.39		mg/Kg	1	☼	6010B	Total/NA
Calcium	20000		49		mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.1		0.98		mg/Kg	1	☼	6010B	Total/NA
Chromium	9.6		0.98		mg/Kg	1	☼	6010B	Total/NA
Copper	28		2.4		mg/Kg	1	☼	6010B	Total/NA
Iron	18000		20		mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		98		mg/Kg	1	☼	6010B	Total/NA
Magnesium	2800		49		mg/Kg	1	☼	6010B	Total/NA
Manganese	230		0.98		mg/Kg	1	☼	6010B	Total/NA
Sodium	590		200		mg/Kg	1	☼	6010B	Total/NA
Nickel	8.8		3.9		mg/Kg	1	☼	6010B	Total/NA
Lead	67		0.98		mg/Kg	1	☼	6010B	Total/NA

Detection Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB05-00 (Continued)

Lab Sample ID: 680-83781-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	22		0.98		mg/Kg	1	☼	6010B	Total/NA
Zinc	140		2.0		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.21		0.019		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: BAND-ALF-TP01-00

Lab Sample ID: 680-83781-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	5.1		3.4		mg/Kg	1	☼	8015B	Total/NA
Aluminum	9300		19		mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.3		1.9		mg/Kg	1	☼	6010B	Total/NA
Barium	80		0.97		mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.0		0.39		mg/Kg	1	☼	6010B	Total/NA
Calcium	3000		49		mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.4		0.97		mg/Kg	1	☼	6010B	Total/NA
Chromium	7.6		0.97		mg/Kg	1	☼	6010B	Total/NA
Copper	6.1		2.4		mg/Kg	1	☼	6010B	Total/NA
Iron	12000		19		mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		97		mg/Kg	1	☼	6010B	Total/NA
Magnesium	1800		49		mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.97		mg/Kg	1	☼	6010B	Total/NA
Sodium	360		190		mg/Kg	1	☼	6010B	Total/NA
Nickel	4.8		3.9		mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.97		mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.97		mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.9		mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: BAND-ALF-TP02-00

Lab Sample ID: 680-83781-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	18		3.5		mg/Kg	1	☼	8015B	Total/NA
Aluminum	9200		21		mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.8		2.1		mg/Kg	1	☼	6010B	Total/NA
Barium	78		1.0		mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.1		0.42		mg/Kg	1	☼	6010B	Total/NA
Calcium	3100		52		mg/Kg	1	☼	6010B	Total/NA
Cobalt	1.8		1.0		mg/Kg	1	☼	6010B	Total/NA
Chromium	6.8		1.0		mg/Kg	1	☼	6010B	Total/NA
Copper	7.6		2.6		mg/Kg	1	☼	6010B	Total/NA
Iron	12000		21		mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		100		mg/Kg	1	☼	6010B	Total/NA
Magnesium	1400		52		mg/Kg	1	☼	6010B	Total/NA
Manganese	360		1.0		mg/Kg	1	☼	6010B	Total/NA
Nickel	4.8		4.2		mg/Kg	1	☼	6010B	Total/NA
Lead	57		1.0		mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		1.0		mg/Kg	1	☼	6010B	Total/NA
Zinc	61		2.1		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.15		0.021		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: BAND-ALF-TP03-00

Lab Sample ID: 680-83781-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	10		3.4		mg/Kg	1	☼	8015B	Total/NA
Aluminum	8100		20		mg/Kg	1	☼	6010B	Total/NA

Detection Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP03-00 (Continued)

Lab Sample ID: 680-83781-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	75		0.99		mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.0		0.40		mg/Kg	1	☼	6010B	Total/NA
Calcium	9100		50		mg/Kg	1	☼	6010B	Total/NA
Cobalt	1.5		0.99		mg/Kg	1	☼	6010B	Total/NA
Chromium	5.9		0.99		mg/Kg	1	☼	6010B	Total/NA
Copper	6.7		2.5		mg/Kg	1	☼	6010B	Total/NA
Iron	10000		20		mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		99		mg/Kg	1	☼	6010B	Total/NA
Magnesium	1400		50		mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.99		mg/Kg	1	☼	6010B	Total/NA
Sodium	450		200		mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.99		mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.99		mg/Kg	1	☼	6010B	Total/NA
Zinc	75		2.0		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.027		0.020		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: BAND-ALF-TP04-00

Lab Sample ID: 680-83781-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	19		3.5		mg/Kg	1	☼	8015B	Total/NA
Aluminum	12000		20		mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.8		2.0		mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.98		mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.4		0.39		mg/Kg	1	☼	6010B	Total/NA
Calcium	11000		49		mg/Kg	1	☼	6010B	Total/NA
Cobalt	1.8		0.98		mg/Kg	1	☼	6010B	Total/NA
Chromium	8.5		0.98		mg/Kg	1	☼	6010B	Total/NA
Copper	6.6		2.5		mg/Kg	1	☼	6010B	Total/NA
Iron	12000		20		mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		98		mg/Kg	1	☼	6010B	Total/NA
Magnesium	2100		49		mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.98		mg/Kg	1	☼	6010B	Total/NA
Sodium	350		200		mg/Kg	1	☼	6010B	Total/NA
Nickel	5.5		3.9		mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.98		mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.98		mg/Kg	1	☼	6010B	Total/NA
Zinc	82		2.0		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.049		0.019		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: BAND-ALF-TP05-00

Lab Sample ID: 680-83781-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	6.6		3.6		mg/Kg	1	☼	8015B	Total/NA
Aluminum	13000		20		mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.8		2.0		mg/Kg	1	☼	6010B	Total/NA
Barium	110		1.0		mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.5		0.40		mg/Kg	1	☼	6010B	Total/NA
Calcium	4500		51		mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.7		1.0		mg/Kg	1	☼	6010B	Total/NA
Chromium	8.8		1.0		mg/Kg	1	☼	6010B	Total/NA
Copper	7.5		2.5		mg/Kg	1	☼	6010B	Total/NA
Iron	13000		20		mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		100		mg/Kg	1	☼	6010B	Total/NA

Detection Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP05-00 (Continued)

Lab Sample ID: 680-83781-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	2100		51		mg/Kg	1	☼	6010B	Total/NA
Manganese	390		1.0		mg/Kg	1	☼	6010B	Total/NA
Nickel	6.3		4.0		mg/Kg	1	☼	6010B	Total/NA
Lead	13		1.0		mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		1.0		mg/Kg	1	☼	6010B	Total/NA
Zinc	60		2.0		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.050		0.020		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: BAND-ALF-TP06-00

Lab Sample ID: 680-83781-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	17		3.5		mg/Kg	1	☼	8015B	Total/NA
Aluminum	13000		20		mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.6		2.0		mg/Kg	1	☼	6010B	Total/NA
Barium	110		1.0		mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.1		0.40		mg/Kg	1	☼	6010B	Total/NA
Calcium	2900		50		mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.4		1.0		mg/Kg	1	☼	6010B	Total/NA
Chromium	10		1.0		mg/Kg	1	☼	6010B	Total/NA
Copper	6.8		2.5		mg/Kg	1	☼	6010B	Total/NA
Iron	15000		20		mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		100		mg/Kg	1	☼	6010B	Total/NA
Magnesium	2000		50		mg/Kg	1	☼	6010B	Total/NA
Manganese	430		1.0		mg/Kg	1	☼	6010B	Total/NA
Sodium	820		200		mg/Kg	1	☼	6010B	Total/NA
Nickel	6.8		4.0		mg/Kg	1	☼	6010B	Total/NA
Lead	9.9		1.0		mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		1.0		mg/Kg	1	☼	6010B	Total/NA
Zinc	44		2.0		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.028		0.021		mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: BAND-ALF-TP01-00D

Lab Sample ID: 680-83781-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	4.4		3.4		mg/Kg	1	☼	8015B	Total/NA
Aluminum	9800		20		mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.5		2.0		mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.98		mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.1		0.39		mg/Kg	1	☼	6010B	Total/NA
Calcium	13000		49		mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.5		0.98		mg/Kg	1	☼	6010B	Total/NA
Chromium	7.0		0.98		mg/Kg	1	☼	6010B	Total/NA
Copper	6.1		2.4		mg/Kg	1	☼	6010B	Total/NA
Iron	11000		20		mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		98		mg/Kg	1	☼	6010B	Total/NA
Magnesium	2400		49		mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.98		mg/Kg	1	☼	6010B	Total/NA
Sodium	370		200		mg/Kg	1	☼	6010B	Total/NA
Nickel	5.2		3.9		mg/Kg	1	☼	6010B	Total/NA
Lead	9.7		0.98		mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.98		mg/Kg	1	☼	6010B	Total/NA
Zinc	49		2.0		mg/Kg	1	☼	6010B	Total/NA

Detection Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-TB01

Lab Sample ID: 680-83781-13

No Detections

1

2

3

4

5

6

7

8

9

10

11

12

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB01-00

Lab Sample ID: 680-83781-1

Date Collected: 10/11/12 09:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 95.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Chloromethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Vinyl chloride	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Bromomethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Chloroethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Trichlorofluoromethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,1-Dichloroethene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Acetone	70	U	70		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Carbon disulfide	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Methyl acetate	14	U	14		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Methylene Chloride	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
trans-1,2-Dichloroethene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Methyl tert-butyl ether	14	U	14		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,1-Dichloroethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
cis-1,2-Dichloroethene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
2-Butanone	35	U	35		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Chloroform	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,1,1-Trichloroethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Cyclohexane	14	U	14		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Carbon tetrachloride	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Benzene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,2-Dichloroethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Trichloroethene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Methylcyclohexane	14	U	14		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,2-Dichloropropane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Bromodichloromethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
cis-1,3-Dichloropropene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
4-Methyl-2-pentanone	35	U	35		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Toluene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
trans-1,3-Dichloropropene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,1,2-Trichloroethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Tetrachloroethene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
2-Hexanone	35	U	35		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Dibromochloromethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,2-Dibromoethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Chlorobenzene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Ethylbenzene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Xylenes, Total	14	U	14		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Styrene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Bromoform	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
Isopropylbenzene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,1,2,2-Tetrachloroethane	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,3-Dichlorobenzene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,4-Dichlorobenzene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,2-Dichlorobenzene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,2-Dibromo-3-Chloropropane	14	U	14		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1
1,2,4-Trichlorobenzene	7.0	U	7.0		ug/Kg	☼	10/15/12 12:28	10/20/12 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		65 - 130	10/15/12 12:28	10/20/12 16:29	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB01-00

Lab Sample ID: 680-83781-1

Date Collected: 10/11/12 09:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 95.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		65 - 130	10/15/12 12:28	10/20/12 16:29	1
Dibromofluoromethane	111		65 - 130	10/15/12 12:28	10/20/12 16:29	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Phenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Bis(2-chloroethyl)ether	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
2-Chlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
2-Methylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
bis (2-chloroisopropyl) ether	340	U *	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Acetophenone	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
3 & 4 Methylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
N-Nitrosodi-n-propylamine	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Hexachloroethane	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Nitrobenzene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Isophorone	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
2-Nitrophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
2,4-Dimethylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Bis(2-chloroethoxy)methane	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
2,4-Dichlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Naphthalene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
4-Chloroaniline	680	U	680		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Hexachlorobutadiene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Caprolactam	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
4-Chloro-3-methylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
2-Methylnaphthalene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Hexachlorocyclopentadiene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
2,4,6-Trichlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
2,4,5-Trichlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
1,1'-Biphenyl	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
2-Chloronaphthalene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
2-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Dimethyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
2,6-Dinitrotoluene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Acenaphthylene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
3-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Acenaphthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
2,4-Dinitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
4-Nitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Dibenzofuran	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
2,4-Dinitrotoluene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Diethyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Fluorene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
4-Chlorophenyl phenyl ether	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
4-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
4,6-Dinitro-2-methylphenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
N-Nitrosodiphenylamine	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
4-Bromophenyl phenyl ether	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Hexachlorobenzene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Atrazine	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB01-00

Lab Sample ID: 680-83781-1

Date Collected: 10/11/12 09:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 95.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Phenanthrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Anthracene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Carbazole	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Di-n-butyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Fluoranthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Pyrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Butyl benzyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
3,3'-Dichlorobenzidine	680	U	680		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Benzo[a]anthracene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Chrysene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Bis(2-ethylhexyl) phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Di-n-octyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Benzo[b]fluoranthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Benzo[k]fluoranthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Benzo[a]pyrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Indeno[1,2,3-cd]pyrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Dibenz(a,h)anthracene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1
Benzo[g,h,i]perylene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	41	X	46 - 130	10/23/12 15:59	10/24/12 14:53	1
2-Fluorobiphenyl	51	X	58 - 130	10/23/12 15:59	10/24/12 14:53	1
Terphenyl-d14	54	X	60 - 130	10/23/12 15:59	10/24/12 14:53	1
Phenol-d5	42	X	49 - 130	10/23/12 15:59	10/24/12 14:53	1
2-Fluorophenol	41		40 - 130	10/23/12 15:59	10/24/12 14:53	1
2,4,6-Tribromophenol	51	X	58 - 130	10/23/12 15:59	10/24/12 14:53	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.31	U	0.31		mg/Kg	☼	10/15/12 10:21	10/15/12 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		70 - 131	10/15/12 10:21	10/15/12 13:30	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	24		3.4		mg/Kg	☼	10/17/12 09:07	10/19/12 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	66		56 - 135	10/17/12 09:07	10/19/12 00:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.0	U	1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Aluminum	16000		20		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Arsenic	2.3		2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Barium	63		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Beryllium	2.2		0.40		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Calcium	2900		50		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Cadmium	0.50	U	0.50		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Cobalt	1.5		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB01-00

Lab Sample ID: 680-83781-1

Date Collected: 10/11/12 09:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 95.4

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	9.3		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Copper	7.8		2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Iron	12000		20		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Potassium	2200		100		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Magnesium	2400		50		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Manganese	220		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Sodium	200	U	200		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Nickel	5.2		4.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Lead	6.8		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Antimony	2.0	U	2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Selenium	2.5	U	2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Thallium	2.5	U	2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Vanadium	15		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1
Zinc	44		2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:20	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.021		mg/Kg	☼	10/16/12 10:34	10/17/12 21:46	1

Client Sample ID: BAND-DS-SB02-00

Lab Sample ID: 680-83781-2

Date Collected: 10/11/12 10:00

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Chloromethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Vinyl chloride	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Bromomethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Chloroethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Trichlorofluoromethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,1-Dichloroethene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Acetone	64	U	64		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Carbon disulfide	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Methyl acetate	13	U	13		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Methylene Chloride	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
trans-1,2-Dichloroethene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Methyl tert-butyl ether	13	U	13		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,1-Dichloroethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
cis-1,2-Dichloroethene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
2-Butanone	32	U	32		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Chloroform	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,1,1-Trichloroethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Cyclohexane	13	U	13		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Carbon tetrachloride	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Benzene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,2-Dichloroethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Trichloroethene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Methylcyclohexane	13	U	13		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,2-Dichloropropane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB02-00

Lab Sample ID: 680-83781-2

Date Collected: 10/11/12 10:00

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
cis-1,3-Dichloropropene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
4-Methyl-2-pentanone	32	U	32		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Toluene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
trans-1,3-Dichloropropene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,1,2-Trichloroethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Tetrachloroethene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
2-Hexanone	32	U	32		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Dibromochloromethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,2-Dibromoethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Chlorobenzene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Ethylbenzene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Xylenes, Total	13	U	13		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Styrene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Bromoform	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
Isopropylbenzene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,1,2,2-Tetrachloroethane	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,3-Dichlorobenzene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,4-Dichlorobenzene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,2-Dichlorobenzene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,2-Dibromo-3-Chloropropane	13	U	13		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1
1,2,4-Trichlorobenzene	6.4	U	6.4		ug/Kg	☼	10/15/12 12:28	10/20/12 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		65 - 130	10/15/12 12:28	10/20/12 16:52	1
4-Bromofluorobenzene	87		65 - 130	10/15/12 12:28	10/20/12 16:52	1
Dibromofluoromethane	106		65 - 130	10/15/12 12:28	10/20/12 16:52	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Phenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Bis(2-chloroethyl)ether	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
2-Chlorophenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
2-Methylphenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
bis (2-chloroisopropyl) ether	360	U *	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Acetophenone	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
3 & 4 Methylphenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
N-Nitrosodi-n-propylamine	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Hexachloroethane	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Nitrobenzene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Isophorone	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
2-Nitrophenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
2,4-Dimethylphenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Bis(2-chloroethoxy)methane	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
2,4-Dichlorophenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Naphthalene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
4-Chloroaniline	710	U	710		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Hexachlorobutadiene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Caprolactam	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
4-Chloro-3-methylphenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB02-00

Lab Sample ID: 680-83781-2

Date Collected: 10/11/12 10:00

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Hexachlorocyclopentadiene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
2,4,6-Trichlorophenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
2,4,5-Trichlorophenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
1,1'-Biphenyl	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
2-Chloronaphthalene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
2-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Dimethyl phthalate	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
2,6-Dinitrotoluene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Acenaphthylene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
3-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Acenaphthene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
2,4-Dinitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
4-Nitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Dibenzofuran	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
2,4-Dinitrotoluene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Diethyl phthalate	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Fluorene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
4-Chlorophenyl phenyl ether	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
4-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
4,6-Dinitro-2-methylphenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
N-Nitrosodiphenylamine	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
4-Bromophenyl phenyl ether	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Hexachlorobenzene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Atrazine	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Pentachlorophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Phenanthrene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Anthracene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Carbazole	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Di-n-butyl phthalate	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Fluoranthene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Pyrene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Butyl benzyl phthalate	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
3,3'-Dichlorobenzidine	710	U	710		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Benzo[a]anthracene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Chrysene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Bis(2-ethylhexyl) phthalate	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Di-n-octyl phthalate	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Benzo[b]fluoranthene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Benzo[k]fluoranthene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Benzo[a]pyrene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Indeno[1,2,3-cd]pyrene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Dibenz(a,h)anthracene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Benzo[g,h,i]perylene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	55		46 - 130				10/23/12 15:59	10/24/12 15:30	1
2-Fluorobiphenyl	66		58 - 130				10/23/12 15:59	10/24/12 15:30	1
Terphenyl-d14	59	X	60 - 130				10/23/12 15:59	10/24/12 15:30	1
Phenol-d5	51		49 - 130				10/23/12 15:59	10/24/12 15:30	1
2-Fluorophenol	58		40 - 130				10/23/12 15:59	10/24/12 15:30	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB02-00

Lab Sample ID: 680-83781-2

Date Collected: 10/11/12 10:00

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55	X	58 - 130	10/23/12 15:59	10/24/12 15:30	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.30	U	0.30		mg/Kg	☼	10/15/12 10:21	10/15/12 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		70 - 131	10/15/12 10:21	10/15/12 13:49	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	12		3.5		mg/Kg	☼	10/17/12 09:07	10/19/12 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		56 - 135	10/17/12 09:07	10/19/12 00:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.1	U	1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Aluminum	31000		21		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Arsenic	5.2		2.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Barium	140		1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Beryllium	2.4		0.43		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Calcium	4000		54		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Cadmium	0.54	U	0.54		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Cobalt	4.5		1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Chromium	18		1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Copper	12		2.7		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Iron	23000		21		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Potassium	5200		1100		mg/Kg	☼	10/15/12 13:01	10/24/12 12:45	10
Magnesium	4300		54		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Manganese	400		1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Sodium	210	U	210		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Nickel	13		4.3		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Lead	14		1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Antimony	2.1	U	2.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Selenium	2.7	U	2.7		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Thallium	2.7	U	2.7		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Vanadium	37		1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1
Zinc	64		2.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:26	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.021		mg/Kg	☼	10/16/12 10:34	10/17/12 21:49	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB03-03

Lab Sample ID: 680-83781-3

Date Collected: 10/11/12 10:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Chloromethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Vinyl chloride	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Bromomethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Chloroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Trichlorofluoromethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,1-Dichloroethene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Acetone	52	U	52		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Carbon disulfide	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Methyl acetate	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Methylene Chloride	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
trans-1,2-Dichloroethene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Methyl tert-butyl ether	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,1-Dichloroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
cis-1,2-Dichloroethene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
2-Butanone	26	U	26		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Chloroform	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,1,1-Trichloroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Cyclohexane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Carbon tetrachloride	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Benzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,2-Dichloroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Trichloroethene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Methylcyclohexane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Bromodichloromethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
cis-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
4-Methyl-2-pentanone	26	U	26		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Toluene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
trans-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,1,2-Trichloroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Tetrachloroethene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
2-Hexanone	26	U	26		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Dibromochloromethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,2-Dibromoethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Chlorobenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Ethylbenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Xylenes, Total	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Styrene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Bromoform	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Isopropylbenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,1,2,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,3-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,4-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,2-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
1,2,4-Trichlorobenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		65 - 130				10/15/12 12:28	10/20/12 17:14	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB03-03

Lab Sample ID: 680-83781-3

Date Collected: 10/11/12 10:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		65 - 130	10/15/12 12:28	10/20/12 17:14	1
Dibromofluoromethane	104		65 - 130	10/15/12 12:28	10/20/12 17:14	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Phenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Bis(2-chloroethyl)ether	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
2-Chlorophenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
2-Methylphenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
bis (2-chloroisopropyl) ether	360	U *	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Acetophenone	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
3 & 4 Methylphenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
N-Nitrosodi-n-propylamine	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Hexachloroethane	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Nitrobenzene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Isophorone	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
2-Nitrophenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
2,4-Dimethylphenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Bis(2-chloroethoxy)methane	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
2,4-Dichlorophenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Naphthalene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
4-Chloroaniline	710	U	710		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Hexachlorobutadiene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Caprolactam	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
4-Chloro-3-methylphenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
2-Methylnaphthalene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Hexachlorocyclopentadiene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
2,4,6-Trichlorophenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
2,4,5-Trichlorophenol	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
1,1'-Biphenyl	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
2-Chloronaphthalene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
2-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Dimethyl phthalate	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
2,6-Dinitrotoluene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Acenaphthylene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
3-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Acenaphthene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
2,4-Dinitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
4-Nitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Dibenzofuran	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
2,4-Dinitrotoluene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Diethyl phthalate	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Fluorene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
4-Chlorophenyl phenyl ether	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
4-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
4,6-Dinitro-2-methylphenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
N-Nitrosodiphenylamine	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
4-Bromophenyl phenyl ether	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Hexachlorobenzene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Atrazine	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB03-03

Lab Sample ID: 680-83781-3

Date Collected: 10/11/12 10:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Phenanthrene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Anthracene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Carbazole	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Di-n-butyl phthalate	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Fluoranthene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Pyrene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Butyl benzyl phthalate	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
3,3'-Dichlorobenzidine	710	U	710		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Benzo[a]anthracene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Chrysene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Bis(2-ethylhexyl) phthalate	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Di-n-octyl phthalate	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Benzo[b]fluoranthene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Benzo[k]fluoranthene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Benzo[a]pyrene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Indeno[1,2,3-cd]pyrene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Dibenz(a,h)anthracene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1
Benzo[g,h,i]perylene	360	U	360		ug/Kg	☼	10/23/12 15:59	10/24/12 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	61		46 - 130	10/23/12 15:59	10/24/12 15:58	1
2-Fluorobiphenyl	72		58 - 130	10/23/12 15:59	10/24/12 15:58	1
Terphenyl-d14	67		60 - 130	10/23/12 15:59	10/24/12 15:58	1
Phenol-d5	59		49 - 130	10/23/12 15:59	10/24/12 15:58	1
2-Fluorophenol	62		40 - 130	10/23/12 15:59	10/24/12 15:58	1
2,4,6-Tribromophenol	64		58 - 130	10/23/12 15:59	10/24/12 15:58	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	0.28	U	0.28		mg/Kg	☼	10/15/12 10:21	10/15/12 14:09	1
-C6-C10									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		70 - 131	10/15/12 10:21	10/15/12 14:09	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	22		3.5		mg/Kg	☼	10/17/12 09:07	10/19/12 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		56 - 135	10/17/12 09:07	10/19/12 01:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.1	U	1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Aluminum	15000		21		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Arsenic	3.9		2.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Barium	120		1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Beryllium	0.98		0.43		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Calcium	2900		53		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Cadmium	0.53	U	0.53		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Cobalt	4.8		1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB03-03

Lab Sample ID: 680-83781-3

Date Collected: 10/11/12 10:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.2

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	14		1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Copper	10		2.7		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Iron	17000		21		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Potassium	3200		110		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Magnesium	3000		53		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Manganese	340		1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Sodium	280		210		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Nickel	9.9		4.3		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Lead	20		1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Antimony	2.1	U	2.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Selenium	2.7	U	2.7		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Thallium	2.7	U	2.7		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Vanadium	28		1.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1
Zinc	46		2.1		mg/Kg	☼	10/15/12 13:01	10/23/12 06:32	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	U	0.021		mg/Kg	☼	10/16/12 10:34	10/17/12 21:53	1

Client Sample ID: BAND-DS-SB04-00

Lab Sample ID: 680-83781-4

Date Collected: 10/11/12 11:00

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 96.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Chloromethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Vinyl chloride	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Bromomethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Chloroethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Trichlorofluoromethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,1-Dichloroethene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Acetone	74	U	74		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Carbon disulfide	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Methyl acetate	15	U	15		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Methylene Chloride	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
trans-1,2-Dichloroethene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Methyl tert-butyl ether	15	U	15		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,1-Dichloroethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
cis-1,2-Dichloroethene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
2-Butanone	37	U	37		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Chloroform	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,1,1-Trichloroethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Cyclohexane	15	U	15		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Carbon tetrachloride	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Benzene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,2-Dichloroethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Trichloroethene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Methylcyclohexane	15	U	15		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,2-Dichloropropane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB04-00

Lab Sample ID: 680-83781-4

Date Collected: 10/11/12 11:00

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 96.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
cis-1,3-Dichloropropene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
4-Methyl-2-pentanone	37	U	37		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Toluene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
trans-1,3-Dichloropropene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,1,2-Trichloroethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Tetrachloroethene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
2-Hexanone	37	U	37		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Dibromochloromethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,2-Dibromoethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Chlorobenzene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Ethylbenzene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Xylenes, Total	15	U	15		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Styrene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Bromoform	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
Isopropylbenzene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,1,2,2-Tetrachloroethane	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,3-Dichlorobenzene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,4-Dichlorobenzene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,2-Dichlorobenzene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,2-Dibromo-3-Chloropropane	15	U	15		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1
1,2,4-Trichlorobenzene	7.4	U	7.4		ug/Kg	☼	10/15/12 12:28	10/20/12 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		65 - 130	10/15/12 12:28	10/20/12 17:37	1
4-Bromofluorobenzene	91		65 - 130	10/15/12 12:28	10/20/12 17:37	1
Dibromofluoromethane	102		65 - 130	10/15/12 12:28	10/20/12 17:37	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Phenol	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Bis(2-chloroethyl)ether	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
2-Chlorophenol	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
2-Methylphenol	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
bis (2-chloroisopropyl) ether	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Acetophenone	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
3 & 4 Methylphenol	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
N-Nitrosodi-n-propylamine	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Hexachloroethane	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Nitrobenzene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Isophorone	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
2-Nitrophenol	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
2,4-Dimethylphenol	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Bis(2-chloroethoxy)methane	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
2,4-Dichlorophenol	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Naphthalene	340	U *	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
4-Chloroaniline	680	U	680		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Hexachlorobutadiene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Caprolactam	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
4-Chloro-3-methylphenol	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB04-00

Lab Sample ID: 680-83781-4

Date Collected: 10/11/12 11:00

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 96.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Hexachlorocyclopentadiene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
2,4,6-Trichlorophenol	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
2,4,5-Trichlorophenol	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
1,1'-Biphenyl	340	U *	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
2-Chloronaphthalene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
2-Nitroaniline	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Dimethyl phthalate	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
2,6-Dinitrotoluene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Acenaphthylene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
3-Nitroaniline	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Acenaphthene	340	U *	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
2,4-Dinitrophenol	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
4-Nitrophenol	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Dibenzofuran	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
2,4-Dinitrotoluene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Diethyl phthalate	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Fluorene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
4-Chlorophenyl phenyl ether	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
4-Nitroaniline	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
4,6-Dinitro-2-methylphenol	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
N-Nitrosodiphenylamine	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
4-Bromophenyl phenyl ether	340	U *	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Hexachlorobenzene	340	U *	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Atrazine	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Pentachlorophenol	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Phenanthrene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Anthracene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Carbazole	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Di-n-butyl phthalate	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Fluoranthene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Pyrene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Butyl benzyl phthalate	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
3,3'-Dichlorobenzidine	680	U	680		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Benzo[a]anthracene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Chrysene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Bis(2-ethylhexyl) phthalate	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Di-n-octyl phthalate	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Benzo[b]fluoranthene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Benzo[k]fluoranthene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Benzo[a]pyrene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Indeno[1,2,3-cd]pyrene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Dibenz(a,h)anthracene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Benzo[g,h,i]perylene	340	U	340		ug/Kg	☼	10/17/12 10:26	10/26/12 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	50		46 - 130				10/17/12 10:26	10/26/12 12:50	1
2-Fluorobiphenyl	58		58 - 130				10/17/12 10:26	10/26/12 12:50	1
Terphenyl-d14	63		60 - 130				10/17/12 10:26	10/26/12 12:50	1
Phenol-d5	56		49 - 130				10/17/12 10:26	10/26/12 12:50	1
2-Fluorophenol	56		40 - 130				10/17/12 10:26	10/26/12 12:50	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB04-00

Lab Sample ID: 680-83781-4

Date Collected: 10/11/12 11:00

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 96.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55	X	58 - 130	10/17/12 10:26	10/26/12 12:50	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Phenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Bis(2-chloroethyl)ether	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
2-Chlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
2-Methylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
bis (2-chloroisopropyl) ether	340	U *	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Acetophenone	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
3 & 4 Methylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
N-Nitrosodi-n-propylamine	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Hexachloroethane	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Nitrobenzene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Isophorone	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
2-Nitrophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
2,4-Dimethylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Bis(2-chloroethoxy)methane	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
2,4-Dichlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Naphthalene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
4-Chloroaniline	680	U	680		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Hexachlorobutadiene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Caprolactam	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
4-Chloro-3-methylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
2-Methylnaphthalene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Hexachlorocyclopentadiene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
2,4,6-Trichlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
2,4,5-Trichlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
1,1'-Biphenyl	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
2-Chloronaphthalene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
2-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Dimethyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
2,6-Dinitrotoluene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Acenaphthylene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
3-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Acenaphthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
2,4-Dinitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
4-Nitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Dibenzofuran	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
2,4-Dinitrotoluene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Diethyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Fluorene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
4-Chlorophenyl phenyl ether	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
4-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
4,6-Dinitro-2-methylphenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
N-Nitrosodiphenylamine	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
4-Bromophenyl phenyl ether	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Hexachlorobenzene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Atrazine	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Pentachlorophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB04-00

Lab Sample ID: 680-83781-4

Date Collected: 10/11/12 11:00

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 96.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Anthracene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Carbazole	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Di-n-butyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Fluoranthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Pyrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Butyl benzyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
3,3'-Dichlorobenzidine	680	U	680		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Benzo[a]anthracene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Chrysene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Bis(2-ethylhexyl) phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Di-n-octyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Benzo[b]fluoranthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Benzo[k]fluoranthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Benzo[a]pyrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Indeno[1,2,3-cd]pyrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Dibenz(a,h)anthracene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1
Benzo[g,h,i]perylene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	55		46 - 130	10/23/12 15:59	10/24/12 21:09	1
2-Fluorobiphenyl	57	X	58 - 130	10/23/12 15:59	10/24/12 21:09	1
Terphenyl-d14	57	X	60 - 130	10/23/12 15:59	10/24/12 21:09	1
Phenol-d5	54		49 - 130	10/23/12 15:59	10/24/12 21:09	1
2-Fluorophenol	55		40 - 130	10/23/12 15:59	10/24/12 21:09	1
2,4,6-Tribromophenol	54	X	58 - 130	10/23/12 15:59	10/24/12 21:09	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.37	U	0.37		mg/Kg	☼	10/15/12 10:21	10/15/12 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		70 - 131				10/15/12 10:21	10/15/12 14:28	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	15		3.4		mg/Kg	☼	10/17/12 09:07	10/19/12 01:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		56 - 135				10/17/12 09:07	10/19/12 01:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.96	U	0.96		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Aluminum	15000		19		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Arsenic	2.3		1.9		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Barium	110		0.96		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Beryllium	1.1		0.38		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Calcium	3300		48		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Cadmium	0.48	U	0.48		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Cobalt	3.1		0.96		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Chromium	10		0.96		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB04-00

Lab Sample ID: 680-83781-4

Date Collected: 10/11/12 11:00

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 96.3

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	6.7		2.4		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Iron	14000		19		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Potassium	2500		96		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Magnesium	2200		48		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Manganese	260		0.96		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Sodium	190	U	190		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Nickel	6.9		3.8		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Lead	8.2		0.96		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Antimony	1.9	U	1.9		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Selenium	2.4	U	2.4		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Thallium	2.4	U	2.4		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Vanadium	22		0.96		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1
Zinc	36		1.9		mg/Kg	☼	10/15/12 13:01	10/23/12 06:50	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020		mg/Kg	☼	10/16/12 10:34	10/17/12 21:56	1

Client Sample ID: BAND-DS-SB05-00

Lab Sample ID: 680-83781-5

Date Collected: 10/11/12 11:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 95.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Chloromethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Vinyl chloride	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Bromomethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Chloroethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Trichlorofluoromethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,1-Dichloroethene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Acetone	85	U	85		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Carbon disulfide	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Methyl acetate	17	U	17		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Methylene Chloride	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
trans-1,2-Dichloroethene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Methyl tert-butyl ether	17	U	17		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,1-Dichloroethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
cis-1,2-Dichloroethene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
2-Butanone	42	U	42		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Chloroform	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,1,1-Trichloroethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Cyclohexane	17	U	17		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Carbon tetrachloride	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Benzene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,2-Dichloroethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Trichloroethene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Methylcyclohexane	17	U	17		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,2-Dichloropropane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Bromodichloromethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB05-00

Lab Sample ID: 680-83781-5

Date Collected: 10/11/12 11:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 95.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
4-Methyl-2-pentanone	42	U	42		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Toluene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
trans-1,3-Dichloropropene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,1,2-Trichloroethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Tetrachloroethene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
2-Hexanone	42	U	42		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Dibromochloromethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,2-Dibromoethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Chlorobenzene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Ethylbenzene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Xylenes, Total	17	U	17		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Styrene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Bromoform	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
Isopropylbenzene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,1,1,2-Tetrachloroethane	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,3-Dichlorobenzene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,4-Dichlorobenzene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,2-Dichlorobenzene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,2-Dibromo-3-Chloropropane	17	U	17		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1
1,2,4-Trichlorobenzene	8.5	U	8.5		ug/Kg	☼	10/15/12 12:28	10/20/12 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		65 - 130	10/15/12 12:28	10/20/12 17:59	1
4-Bromofluorobenzene	79		65 - 130	10/15/12 12:28	10/20/12 17:59	1
Dibromofluoromethane	109		65 - 130	10/15/12 12:28	10/20/12 17:59	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Phenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Bis(2-chloroethyl)ether	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
2-Chlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
2-Methylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
bis (2-chloroisopropyl) ether	340	U *	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Acetophenone	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
3 & 4 Methylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
N-Nitrosodi-n-propylamine	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Hexachloroethane	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Nitrobenzene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Isophorone	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
2-Nitrophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
2,4-Dimethylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Bis(2-chloroethoxy)methane	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
2,4-Dichlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Naphthalene	420		340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
4-Chloroaniline	690	U	690		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Hexachlorobutadiene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Caprolactam	580		340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
4-Chloro-3-methylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
2-Methylnaphthalene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB05-00

Lab Sample ID: 680-83781-5

Date Collected: 10/11/12 11:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 95.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
2,4,6-Trichlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
2,4,5-Trichlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
1,1'-Biphenyl	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
2-Chloronaphthalene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
2-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Dimethyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
2,6-Dinitrotoluene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Acenaphthylene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
3-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Acenaphthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
2,4-Dinitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
4-Nitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Dibenzofuran	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
2,4-Dinitrotoluene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Diethyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Fluorene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
4-Chlorophenyl phenyl ether	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
4-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
4,6-Dinitro-2-methylphenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
N-Nitrosodiphenylamine	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
4-Bromophenyl phenyl ether	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Hexachlorobenzene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Atrazine	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Pentachlorophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Phenanthrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Anthracene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Carbazole	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Di-n-butyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Fluoranthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Pyrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Butyl benzyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
3,3'-Dichlorobenzidine	690	U	690		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Benzo[a]anthracene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Chrysene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Bis(2-ethylhexyl) phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Di-n-octyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Benzo[b]fluoranthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Benzo[k]fluoranthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Benzo[a]pyrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Indeno[1,2,3-cd]pyrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Dibenz(a,h)anthracene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Benzo[g,h,i]perylene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 21:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	34	X	46 - 130				10/23/12 15:59	10/24/12 21:38	1
2-Fluorobiphenyl	38	X	58 - 130				10/23/12 15:59	10/24/12 21:38	1
Terphenyl-d14	29	X	60 - 130				10/23/12 15:59	10/24/12 21:38	1
Phenol-d5	34	X	49 - 130				10/23/12 15:59	10/24/12 21:38	1
2-Fluorophenol	34	X	40 - 130				10/23/12 15:59	10/24/12 21:38	1
2,4,6-Tribromophenol	33	X	58 - 130				10/23/12 15:59	10/24/12 21:38	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB05-00

Lab Sample ID: 680-83781-5

Date Collected: 10/11/12 11:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 95.7

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.39	U	0.39		mg/Kg	☼	10/15/12 10:21	10/18/12 13:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	149	X	70 - 131				10/15/12 10:21	10/18/12 13:19	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	230		3.4		mg/Kg	☼	10/17/12 09:07	10/19/12 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	54	X	56 - 135				10/17/12 09:07	10/19/12 01:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.98	U	0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Aluminum	19000		20		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Arsenic	5.5		2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Barium	470		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Beryllium	2.5		0.39		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Calcium	20000		49		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Cadmium	0.49	U	0.49		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Cobalt	4.1		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Chromium	9.6		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Copper	28		2.4		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Iron	18000		20		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Potassium	1700		98		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Magnesium	2800		49		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Manganese	230		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Sodium	590		200		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Nickel	8.8		3.9		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Lead	67		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Antimony	2.0	U	2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Selenium	2.4	U	2.4		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Thallium	2.4	U	2.4		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Vanadium	22		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1
Zinc	140		2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 06:55	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.019		mg/Kg	☼	10/16/12 10:34	10/17/12 22:05	1

Client Sample ID: BAND-ALF-TP01-00

Lab Sample ID: 680-83781-6

Date Collected: 10/10/12 10:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Chloromethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Vinyl chloride	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Bromomethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Chloroethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP01-00

Lab Sample ID: 680-83781-6

Date Collected: 10/10/12 10:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,1-Dichloroethene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Acetone	48	U	48		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Carbon disulfide	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Methyl acetate	9.5	U	9.5		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Methylene Chloride	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
trans-1,2-Dichloroethene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Methyl tert-butyl ether	9.5	U	9.5		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,1-Dichloroethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
cis-1,2-Dichloroethene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
2-Butanone	24	U	24		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Chloroform	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,1,1-Trichloroethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Cyclohexane	9.5	U	9.5		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Carbon tetrachloride	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Benzene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,2-Dichloroethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Trichloroethene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Methylcyclohexane	9.5	U	9.5		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,2-Dichloropropane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Bromodichloromethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
cis-1,3-Dichloropropene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
4-Methyl-2-pentanone	24	U	24		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Toluene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
trans-1,3-Dichloropropene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,1,2-Trichloroethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Tetrachloroethene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
2-Hexanone	24	U	24		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Dibromochloromethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,2-Dibromoethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Chlorobenzene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Ethylbenzene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Xylenes, Total	9.5	U	9.5		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Styrene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Bromoform	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Isopropylbenzene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,1,2,2-Tetrachloroethane	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,3-Dichlorobenzene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,4-Dichlorobenzene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,2-Dichlorobenzene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,2-Dibromo-3-Chloropropane	9.5	U	9.5		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
1,2,4-Trichlorobenzene	4.8	U	4.8		ug/Kg	☼	10/15/12 12:28	10/20/12 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		65 - 130				10/15/12 12:28	10/20/12 18:22	1
4-Bromofluorobenzene	94		65 - 130				10/15/12 12:28	10/20/12 18:22	1
Dibromofluoromethane	103		65 - 130				10/15/12 12:28	10/20/12 18:22	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP01-00

Lab Sample ID: 680-83781-6

Date Collected: 10/10/12 10:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Phenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Bis(2-chloroethyl)ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
2-Chlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
2-Methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
bis (2-chloroisopropyl) ether	350	U *	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Acetophenone	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
3 & 4 Methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
N-Nitrosodi-n-propylamine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Hexachloroethane	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Nitrobenzene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Isophorone	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
2-Nitrophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
2,4-Dimethylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Bis(2-chloroethoxy)methane	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
2,4-Dichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Naphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
4-Chloroaniline	700	U	700		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Hexachlorobutadiene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Caprolactam	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
4-Chloro-3-methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
2-Methylnaphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Hexachlorocyclopentadiene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
2,4,6-Trichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
2,4,5-Trichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
1,1'-Biphenyl	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
2-Chloronaphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
2-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Dimethyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
2,6-Dinitrotoluene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Acenaphthylene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
3-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Acenaphthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
2,4-Dinitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
4-Nitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Dibenzofuran	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
2,4-Dinitrotoluene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Diethyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Fluorene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
4-Chlorophenyl phenyl ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
4-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
4,6-Dinitro-2-methylphenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
N-Nitrosodiphenylamine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
4-Bromophenyl phenyl ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Hexachlorobenzene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Atrazine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Pentachlorophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Phenanthrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Carbazole	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Di-n-butyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP01-00

Lab Sample ID: 680-83781-6

Date Collected: 10/10/12 10:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Butyl benzyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
3,3'-Dichlorobenzidine	700	U	700		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Benzo[a]anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Chrysene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Bis(2-ethylhexyl) phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Di-n-octyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Benzo[b]fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Benzo[k]fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Benzo[a]pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Indeno[1,2,3-cd]pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Dibenz(a,h)anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1
Benzo[g,h,i]perylene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	59		46 - 130	10/23/12 15:59	10/24/12 22:07	1
2-Fluorobiphenyl	59		58 - 130	10/23/12 15:59	10/24/12 22:07	1
Terphenyl-d14	62		60 - 130	10/23/12 15:59	10/24/12 22:07	1
Phenol-d5	63		49 - 130	10/23/12 15:59	10/24/12 22:07	1
2-Fluorophenol	63		40 - 130	10/23/12 15:59	10/24/12 22:07	1
2,4,6-Tribromophenol	62		58 - 130	10/23/12 15:59	10/24/12 22:07	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	0.28	U	0.28		mg/Kg	☼	10/15/12 10:21	10/15/12 15:07	1
-C6-C10									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		70 - 131	10/15/12 10:21	10/15/12 15:07	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	5.1		3.4		mg/Kg	☼	10/17/12 09:07	10/19/12 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	68		56 - 135	10/17/12 09:07	10/19/12 01:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.97	U	0.97		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Aluminum	9300		19		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Arsenic	2.3		1.9		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Barium	80		0.97		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Beryllium	1.0		0.39		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Calcium	3000		49		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Cadmium	0.49	U	0.49		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Cobalt	2.4		0.97		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Chromium	7.6		0.97		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Copper	6.1		2.4		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Iron	12000		19		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Potassium	1900		97		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Magnesium	1800		49		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP01-00

Lab Sample ID: 680-83781-6

Date Collected: 10/10/12 10:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.2

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	400		0.97		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Sodium	360		190		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Nickel	4.8		3.9		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Lead	12		0.97		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Antimony	1.9	U	1.9		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Selenium	2.4	U	2.4		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Thallium	2.4	U	2.4		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Vanadium	16		0.97		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1
Zinc	56		1.9		mg/Kg	☼	10/15/12 13:01	10/23/12 07:01	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020		mg/Kg	☼	10/16/12 10:34	10/17/12 22:08	1

Client Sample ID: BAND-ALF-TP02-00

Lab Sample ID: 680-83781-7

Date Collected: 10/10/12 11:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 93.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Chloromethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Vinyl chloride	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Bromomethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Chloroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Trichlorofluoromethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
1,1-Dichloroethene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Acetone	51	U	51		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Carbon disulfide	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Methyl acetate	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Methylene Chloride	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
trans-1,2-Dichloroethene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Methyl tert-butyl ether	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
1,1-Dichloroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
cis-1,2-Dichloroethene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
2-Butanone	25	U	25		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Chloroform	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
1,1,1-Trichloroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Cyclohexane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Carbon tetrachloride	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Benzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
1,2-Dichloroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Trichloroethene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Methylcyclohexane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
1,2-Dichloropropane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Bromodichloromethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
cis-1,3-Dichloropropene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
4-Methyl-2-pentanone	25	U	25		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Toluene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
trans-1,3-Dichloropropene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP02-00

Lab Sample ID: 680-83781-7

Date Collected: 10/10/12 11:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 93.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Tetrachloroethene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
2-Hexanone	25	U	25		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Dibromochloromethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
1,2-Dibromoethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Chlorobenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Ethylbenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Xylenes, Total	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Styrene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Bromoform	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
Isopropylbenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
1,1,2,2-Tetrachloroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
1,3-Dichlorobenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
1,4-Dichlorobenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
1,2-Dichlorobenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1
1,2,4-Trichlorobenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		65 - 130	10/15/12 12:28	10/20/12 18:45	1
4-Bromofluorobenzene	92		65 - 130	10/15/12 12:28	10/20/12 18:45	1
Dibromofluoromethane	106		65 - 130	10/15/12 12:28	10/20/12 18:45	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Phenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Bis(2-chloroethyl)ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
2-Chlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
2-Methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
bis (2-chloroisopropyl) ether	350	U *	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Acetophenone	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
3 & 4 Methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
N-Nitrosodi-n-propylamine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Hexachloroethane	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Nitrobenzene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Isophorone	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
2-Nitrophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
2,4-Dimethylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Bis(2-chloroethoxy)methane	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
2,4-Dichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Naphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
4-Chloroaniline	700	U	700		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Hexachlorobutadiene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Caprolactam	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
4-Chloro-3-methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
2-Methylnaphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Hexachlorocyclopentadiene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
2,4,6-Trichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
2,4,5-Trichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
1,1'-Biphenyl	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP02-00

Lab Sample ID: 680-83781-7

Date Collected: 10/10/12 11:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 93.8

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
2-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Dimethyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
2,6-Dinitrotoluene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Acenaphthylene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
3-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Acenaphthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
2,4-Dinitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
4-Nitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Dibenzofuran	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
2,4-Dinitrotoluene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Diethyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Fluorene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
4-Chlorophenyl phenyl ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
4-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
4,6-Dinitro-2-methylphenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
N-Nitrosodiphenylamine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
4-Bromophenyl phenyl ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Hexachlorobenzene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Atrazine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Pentachlorophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Phenanthrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Carbazole	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Di-n-butyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Butyl benzyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
3,3'-Dichlorobenzidine	700	U	700		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Benzo[a]anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Chrysene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Bis(2-ethylhexyl) phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Di-n-octyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Benzo[b]fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Benzo[k]fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Benzo[a]pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Indeno[1,2,3-cd]pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Dibenz(a,h)anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1
Benzo[g,h,i]perylene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	62		46 - 130	10/23/12 15:59	10/24/12 22:35	1
2-Fluorobiphenyl	64		58 - 130	10/23/12 15:59	10/24/12 22:35	1
Terphenyl-d14	64		60 - 130	10/23/12 15:59	10/24/12 22:35	1
Phenol-d5	61		49 - 130	10/23/12 15:59	10/24/12 22:35	1
2-Fluorophenol	62		40 - 130	10/23/12 15:59	10/24/12 22:35	1
2,4,6-Tribromophenol	70		58 - 130	10/23/12 15:59	10/24/12 22:35	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	0.27	U	0.27		mg/Kg	☼	10/15/12 10:21	10/15/12 15:27	1
-C6-C10									

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP02-00

Lab Sample ID: 680-83781-7

Date Collected: 10/10/12 11:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 93.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		70 - 131	10/15/12 10:21	10/15/12 15:27	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	18		3.5		mg/Kg	☼	10/17/12 09:07	10/19/12 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		56 - 135				10/17/12 09:07	10/19/12 01:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.0	U	1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Aluminum	9200		21		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Arsenic	2.8		2.1		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Barium	78		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Beryllium	1.1		0.42		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Calcium	3100		52		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Cadmium	0.52	U	0.52		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Cobalt	1.8		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Chromium	6.8		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Copper	7.6		2.6		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Iron	12000		21		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Potassium	1600		100		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Magnesium	1400		52		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Manganese	360		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Sodium	210	U	210		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Nickel	4.8		4.2		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Lead	57		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Antimony	2.1	U	2.1		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Selenium	2.6	U	2.6		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Thallium	2.6	U	2.6		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Vanadium	14		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1
Zinc	61		2.1		mg/Kg	☼	10/15/12 13:01	10/23/12 07:07	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.021		mg/Kg	☼	10/16/12 10:34	10/17/12 22:11	1

Client Sample ID: BAND-ALF-TP03-00

Lab Sample ID: 680-83781-8

Date Collected: 10/10/12 12:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 96.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Chloromethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Vinyl chloride	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Bromomethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Chloroethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Trichlorofluoromethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Acetone	50	U	50		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP03-00

Lab Sample ID: 680-83781-8

Date Collected: 10/10/12 12:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 96.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Methyl acetate	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Methylene Chloride	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
trans-1,2-Dichloroethene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Methyl tert-butyl ether	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
cis-1,2-Dichloroethene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
2-Butanone	25	U	25		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Chloroform	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Cyclohexane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Benzene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Trichloroethene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Methylcyclohexane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Bromodichloromethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
4-Methyl-2-pentanone	25	U	25		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Toluene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Tetrachloroethene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
2-Hexanone	25	U	25		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Dibromochloromethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,2-Dibromoethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Chlorobenzene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Ethylbenzene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Xylenes, Total	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Styrene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Bromoform	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
Isopropylbenzene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/Kg	☼	10/15/12 12:28	10/20/12 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		65 - 130	10/15/12 12:28	10/20/12 19:07	1
4-Bromofluorobenzene	88		65 - 130	10/15/12 12:28	10/20/12 19:07	1
Dibromofluoromethane	105		65 - 130	10/15/12 12:28	10/20/12 19:07	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Phenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Bis(2-chloroethyl)ether	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
2-Chlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP03-00

Lab Sample ID: 680-83781-8

Date Collected: 10/10/12 12:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 96.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
bis (2-chloroisopropyl) ether	340	U *	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Acetophenone	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
3 & 4 Methylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
N-Nitrosodi-n-propylamine	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Hexachloroethane	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Nitrobenzene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Isophorone	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
2-Nitrophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
2,4-Dimethylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Bis(2-chloroethoxy)methane	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
2,4-Dichlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Naphthalene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
4-Chloroaniline	680	U	680		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Hexachlorobutadiene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Caprolactam	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
4-Chloro-3-methylphenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
2-Methylnaphthalene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Hexachlorocyclopentadiene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
2,4,6-Trichlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
2,4,5-Trichlorophenol	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
1,1'-Biphenyl	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
2-Chloronaphthalene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
2-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Dimethyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
2,6-Dinitrotoluene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Acenaphthylene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
3-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Acenaphthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
2,4-Dinitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
4-Nitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Dibenzofuran	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
2,4-Dinitrotoluene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Diethyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Fluorene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
4-Chlorophenyl phenyl ether	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
4-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
4,6-Dinitro-2-methylphenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
N-Nitrosodiphenylamine	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
4-Bromophenyl phenyl ether	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Hexachlorobenzene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Atrazine	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Pentachlorophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Phenanthrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Anthracene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Carbazole	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Di-n-butyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Fluoranthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Pyrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Butyl benzyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
3,3'-Dichlorobenzidine	680	U	680		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP03-00

Lab Sample ID: 680-83781-8

Date Collected: 10/10/12 12:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 96.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Chrysene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Bis(2-ethylhexyl) phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Di-n-octyl phthalate	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Benzo[b]fluoranthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Benzo[k]fluoranthene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Benzo[a]pyrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Indeno[1,2,3-cd]pyrene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Dibenz(a,h)anthracene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1
Benzo[g,h,i]perylene	340	U	340		ug/Kg	☼	10/23/12 15:59	10/24/12 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	52		46 - 130	10/23/12 15:59	10/24/12 23:04	1
2-Fluorobiphenyl	56	X	58 - 130	10/23/12 15:59	10/24/12 23:04	1
Terphenyl-d14	60		60 - 130	10/23/12 15:59	10/24/12 23:04	1
Phenol-d5	56		49 - 130	10/23/12 15:59	10/24/12 23:04	1
2-Fluorophenol	52		40 - 130	10/23/12 15:59	10/24/12 23:04	1
2,4,6-Tribromophenol	56	X	58 - 130	10/23/12 15:59	10/24/12 23:04	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.24	U	0.24		mg/Kg	☼	10/15/12 10:21	10/15/12 15:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	117		70 - 131				10/15/12 10:21	10/15/12 15:47	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	10		3.4		mg/Kg	☼	10/17/12 09:07	10/19/12 02:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		56 - 135				10/17/12 09:07	10/19/12 02:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.99	U	0.99		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Aluminum	8100		20		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Arsenic	2.0	U	2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Barium	75		0.99		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Beryllium	1.0		0.40		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Calcium	9100		50		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Cadmium	0.50	U	0.50		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Cobalt	1.5		0.99		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Chromium	5.9		0.99		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Copper	6.7		2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Iron	10000		20		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Potassium	1500		99		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Magnesium	1400		50		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Manganese	340		0.99		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Sodium	450		200		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Nickel	4.0	U	4.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Lead	12		0.99		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP03-00

Lab Sample ID: 680-83781-8

Date Collected: 10/10/12 12:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 96.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	U	2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Selenium	2.5	U	2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Thallium	2.5	U	2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Vanadium	12		0.99		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1
Zinc	75		2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:13	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.020		mg/Kg	☼	10/16/12 10:34	10/17/12 22:15	1

Client Sample ID: BAND-ALF-TP04-00

Lab Sample ID: 680-83781-9

Date Collected: 10/10/12 13:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Chloromethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Vinyl chloride	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Bromomethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Chloroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Trichlorofluoromethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
1,1-Dichloroethene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Acetone	52	U	52		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Carbon disulfide	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Methyl acetate	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Methylene Chloride	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
trans-1,2-Dichloroethene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Methyl tert-butyl ether	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
1,1-Dichloroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
cis-1,2-Dichloroethene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
2-Butanone	26	U	26		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Chloroform	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
1,1,1-Trichloroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Cyclohexane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Carbon tetrachloride	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Benzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
1,2-Dichloroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Trichloroethene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Methylcyclohexane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
1,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Bromodichloromethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
cis-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
4-Methyl-2-pentanone	26	U	26		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Toluene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
trans-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
1,1,2-Trichloroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Tetrachloroethene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
2-Hexanone	26	U	26		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Dibromochloromethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP04-00

Lab Sample ID: 680-83781-9

Date Collected: 10/10/12 13:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Chlorobenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Ethylbenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Xylenes, Total	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Styrene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Bromoform	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
Isopropylbenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
1,1,2,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
1,3-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
1,4-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
1,2-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1
1,2,4-Trichlorobenzene	5.2	U	5.2		ug/Kg	☼	10/15/12 12:28	10/20/12 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		65 - 130	10/15/12 12:28	10/20/12 19:30	1
4-Bromofluorobenzene	93		65 - 130	10/15/12 12:28	10/20/12 19:30	1
Dibromofluoromethane	102		65 - 130	10/15/12 12:28	10/20/12 19:30	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Phenol	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Bis(2-chloroethyl)ether	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
2-Chlorophenol	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
2-Methylphenol	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
bis (2-chloroisopropyl) ether	1700	U *	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Acetophenone	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
3 & 4 Methylphenol	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
N-Nitrosodi-n-propylamine	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Hexachloroethane	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Nitrobenzene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Isophorone	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
2-Nitrophenol	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
2,4-Dimethylphenol	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Bis(2-chloroethoxy)methane	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
2,4-Dichlorophenol	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Naphthalene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
4-Chloroaniline	3500	U	3500		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Hexachlorobutadiene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Caprolactam	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
4-Chloro-3-methylphenol	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
2-Methylnaphthalene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Hexachlorocyclopentadiene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
2,4,6-Trichlorophenol	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
2,4,5-Trichlorophenol	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
1,1'-Biphenyl	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
2-Chloronaphthalene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
2-Nitroaniline	9000	U	9000		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Dimethyl phthalate	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
2,6-Dinitrotoluene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP04-00

Lab Sample ID: 680-83781-9

Date Collected: 10/10/12 13:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
3-Nitroaniline	9000	U	9000		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Acenaphthene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
2,4-Dinitrophenol	9000	U	9000		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
4-Nitrophenol	9000	U	9000		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Dibenzofuran	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
2,4-Dinitrotoluene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Diethyl phthalate	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Fluorene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
4-Chlorophenyl phenyl ether	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
4-Nitroaniline	9000	U	9000		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
4,6-Dinitro-2-methylphenol	9000	U	9000		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
N-Nitrosodiphenylamine	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
4-Bromophenyl phenyl ether	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Hexachlorobenzene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Atrazine	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Pentachlorophenol	9000	U	9000		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Phenanthrene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Anthracene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Carbazole	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Di-n-butyl phthalate	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Fluoranthene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Pyrene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Butyl benzyl phthalate	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
3,3'-Dichlorobenzidine	3500	U	3500		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Benzo[a]anthracene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Chrysene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Bis(2-ethylhexyl) phthalate	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Di-n-octyl phthalate	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Benzo[b]fluoranthene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Benzo[k]fluoranthene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Benzo[a]pyrene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Indeno[1,2,3-cd]pyrene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Dibenz(a,h)anthracene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5
Benzo[g,h,i]perylene	1700	U	1700		ug/Kg	☼	10/23/12 15:59	10/24/12 23:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	53		46 - 130	10/23/12 15:59	10/24/12 23:33	5
2-Fluorobiphenyl	62		58 - 130	10/23/12 15:59	10/24/12 23:33	5
Terphenyl-d14	62		60 - 130	10/23/12 15:59	10/24/12 23:33	5
Phenol-d5	59		49 - 130	10/23/12 15:59	10/24/12 23:33	5
2-Fluorophenol	54		40 - 130	10/23/12 15:59	10/24/12 23:33	5
2,4,6-Tribromophenol	58		58 - 130	10/23/12 15:59	10/24/12 23:33	5

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	0.22	U	0.22		mg/Kg	☼	10/15/12 10:21	10/15/12 16:06	1
-C6-C10									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		70 - 131	10/15/12 10:21	10/15/12 16:06	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP04-00

Lab Sample ID: 680-83781-9

Date Collected: 10/10/12 13:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.3

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	19		3.5		mg/Kg	☼	10/17/12 09:07	10/19/12 02:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	82		56 - 135				10/17/12 09:07	10/19/12 02:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.98	U	0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Aluminum	12000		20		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Arsenic	2.8		2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Barium	120		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Beryllium	1.4		0.39		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Calcium	11000		49		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Cadmium	0.49	U	0.49		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Cobalt	1.8		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Chromium	8.5		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Copper	6.6		2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Iron	12000		20		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Potassium	2100		98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Magnesium	2100		49		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Manganese	400		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Sodium	350		200		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Nickel	5.5		3.9		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Lead	13		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Antimony	2.0	U	2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Selenium	2.5	U	2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Thallium	2.5	U	2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Vanadium	15		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1
Zinc	82		2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:19	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.019		mg/Kg	☼	10/16/12 10:34	10/17/12 22:18	1

Client Sample ID: BAND-ALF-TP05-00

Lab Sample ID: 680-83781-10

Date Collected: 10/10/12 14:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Chloromethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Vinyl chloride	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Bromomethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Chloroethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Trichlorofluoromethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,1-Dichloroethene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Acetone	69	U	69		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Carbon disulfide	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Methyl acetate	14	U	14		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Methylene Chloride	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP05-00

Lab Sample ID: 680-83781-10

Date Collected: 10/10/12 14:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Methyl tert-butyl ether	14	U	14		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,1-Dichloroethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
cis-1,2-Dichloroethene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
2-Butanone	35	U	35		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Chloroform	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,1,1-Trichloroethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Cyclohexane	14	U	14		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Carbon tetrachloride	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Benzene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,2-Dichloroethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Trichloroethene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Methylcyclohexane	14	U	14		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,2-Dichloropropane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Bromodichloromethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
cis-1,3-Dichloropropene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
4-Methyl-2-pentanone	35	U	35		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Toluene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
trans-1,3-Dichloropropene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,1,2-Trichloroethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Tetrachloroethene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
2-Hexanone	35	U	35		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Dibromochloromethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,2-Dibromoethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Chlorobenzene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Ethylbenzene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Xylenes, Total	14	U	14		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Styrene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Bromoform	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Isopropylbenzene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,1,2,2-Tetrachloroethane	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,3-Dichlorobenzene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,4-Dichlorobenzene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,2-Dichlorobenzene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,2-Dibromo-3-Chloropropane	14	U	14		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
1,2,4-Trichlorobenzene	6.9	U	6.9		ug/Kg	☼	10/15/12 12:28	10/20/12 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		65 - 130				10/15/12 12:28	10/20/12 19:52	1
4-Bromofluorobenzene	86		65 - 130				10/15/12 12:28	10/20/12 19:52	1
Dibromofluoromethane	105		65 - 130				10/15/12 12:28	10/20/12 19:52	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Phenol	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Bis(2-chloroethyl)ether	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
2-Chlorophenol	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
2-Methylphenol	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
bis (2-chloroisopropyl) ether	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Acetophenone	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP05-00

Lab Sample ID: 680-83781-10

Date Collected: 10/10/12 14:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
N-Nitrosodi-n-propylamine	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Hexachloroethane	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Nitrobenzene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Isophorone	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
2-Nitrophenol	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
2,4-Dimethylphenol	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Bis(2-chloroethoxy)methane	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
2,4-Dichlorophenol	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Naphthalene	360	U *	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
4-Chloroaniline	710	U	710		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Hexachlorobutadiene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Caprolactam	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
4-Chloro-3-methylphenol	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
2-Methylnaphthalene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Hexachlorocyclopentadiene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
2,4,6-Trichlorophenol	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
2,4,5-Trichlorophenol	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
1,1'-Biphenyl	360	U *	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
2-Chloronaphthalene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
2-Nitroaniline	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Dimethyl phthalate	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
2,6-Dinitrotoluene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Acenaphthylene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
3-Nitroaniline	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Acenaphthene	360	U *	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
2,4-Dinitrophenol	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
4-Nitrophenol	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Dibenzofuran	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
2,4-Dinitrotoluene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Diethyl phthalate	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Fluorene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
4-Chlorophenyl phenyl ether	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
4-Nitroaniline	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
4,6-Dinitro-2-methylphenol	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
N-Nitrosodiphenylamine	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
4-Bromophenyl phenyl ether	360	U *	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Hexachlorobenzene	360	U *	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Atrazine	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Pentachlorophenol	1800	U	1800		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Phenanthrene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Anthracene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Carbazole	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Di-n-butyl phthalate	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Fluoranthene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Pyrene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Butyl benzyl phthalate	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
3,3'-Dichlorobenzidine	710	U	710		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Benzo[a]anthracene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Chrysene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Bis(2-ethylhexyl) phthalate	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP05-00

Lab Sample ID: 680-83781-10

Date Collected: 10/10/12 14:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Benzo[b]fluoranthene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Benzo[k]fluoranthene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Benzo[a]pyrene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Indeno[1,2,3-cd]pyrene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Dibenz(a,h)anthracene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1
Benzo[g,h,i]perylene	360	U	360		ug/Kg	☼	10/17/12 10:26	10/25/12 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	51		46 - 130	10/17/12 10:26	10/25/12 15:30	1
2-Fluorobiphenyl	53	X	58 - 130	10/17/12 10:26	10/25/12 15:30	1
Terphenyl-d14	60		60 - 130	10/17/12 10:26	10/25/12 15:30	1
Phenol-d5	52		49 - 130	10/17/12 10:26	10/25/12 15:30	1
2-Fluorophenol	50		40 - 130	10/17/12 10:26	10/25/12 15:30	1
2,4,6-Tribromophenol	53	X	58 - 130	10/17/12 10:26	10/25/12 15:30	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Phenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Bis(2-chloroethyl)ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
2-Chlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
2-Methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
bis (2-chloroisopropyl) ether	350	U *	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Acetophenone	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
3 & 4 Methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
N-Nitrosodi-n-propylamine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Hexachloroethane	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Nitrobenzene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Isophorone	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
2-Nitrophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
2,4-Dimethylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Bis(2-chloroethoxy)methane	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
2,4-Dichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Naphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
4-Chloroaniline	710	U	710		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Hexachlorobutadiene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Caprolactam	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
4-Chloro-3-methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
2-Methylnaphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Hexachlorocyclopentadiene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
2,4,6-Trichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
2,4,5-Trichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
1,1'-Biphenyl	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
2-Chloronaphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
2-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Dimethyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
2,6-Dinitrotoluene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Acenaphthylene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
3-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Acenaphthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP05-00

Lab Sample ID: 680-83781-10

Date Collected: 10/10/12 14:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
4-Nitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Dibenzofuran	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
2,4-Dinitrotoluene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Diethyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Fluorene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
4-Chlorophenyl phenyl ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
4-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
4,6-Dinitro-2-methylphenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
N-Nitrosodiphenylamine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
4-Bromophenyl phenyl ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Hexachlorobenzene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Atrazine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Pentachlorophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Phenanthrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Carbazole	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Di-n-butyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Butyl benzyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
3,3'-Dichlorobenzidine	710	U	710		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Benzo[a]anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Chrysene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Bis(2-ethylhexyl) phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Di-n-octyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Benzo[b]fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Benzo[k]fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Benzo[a]pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Indeno[1,2,3-cd]pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Dibenz[a,h]anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1
Benzo[g,h,i]perylene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	51		46 - 130	10/23/12 15:59	10/25/12 00:02	1
2-Fluorobiphenyl	55	X	58 - 130	10/23/12 15:59	10/25/12 00:02	1
Terphenyl-d14	56	X	60 - 130	10/23/12 15:59	10/25/12 00:02	1
Phenol-d5	53		49 - 130	10/23/12 15:59	10/25/12 00:02	1
2-Fluorophenol	50		40 - 130	10/23/12 15:59	10/25/12 00:02	1
2,4,6-Tribromophenol	55	X	58 - 130	10/23/12 15:59	10/25/12 00:02	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.30	U	0.30		mg/Kg	☼	10/15/12 10:21	10/15/12 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		70 - 131	10/15/12 10:21	10/15/12 16:26	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	6.6		3.6		mg/Kg	☼	10/17/12 09:07	10/19/12 02:41	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP05-00

Lab Sample ID: 680-83781-10

Date Collected: 10/10/12 14:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		56 - 135	10/17/12 09:07	10/19/12 02:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.0	U	1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Aluminum	13000		20		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Arsenic	2.8		2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Barium	110		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Beryllium	1.5		0.40		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Calcium	4500		51		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Cadmium	0.51	U	0.51		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Cobalt	2.7		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Chromium	8.8		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Copper	7.5		2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Iron	13000		20		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Potassium	2300		100		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Magnesium	2100		51		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Manganese	390		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Sodium	200	U	200		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Nickel	6.3		4.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Lead	13		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Antimony	2.0	U	2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Selenium	2.5	U	2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Thallium	2.5	U	2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Vanadium	18		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1
Zinc	60		2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:24	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.020		mg/Kg	☼	10/16/12 10:34	10/17/12 22:21	1

Client Sample ID: BAND-ALF-TP06-00

Lab Sample ID: 680-83781-11

Date Collected: 10/10/12 15:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Chloromethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Vinyl chloride	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Bromomethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Chloroethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Trichlorofluoromethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,1-Dichloroethene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Acetone	53	U	53		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Carbon disulfide	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Methyl acetate	11	U	11		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Methylene Chloride	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
trans-1,2-Dichloroethene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Methyl tert-butyl ether	11	U	11		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,1-Dichloroethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP06-00

Lab Sample ID: 680-83781-11

Date Collected: 10/10/12 15:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
2-Butanone	26	U	26		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Chloroform	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,1,1-Trichloroethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Cyclohexane	11	U	11		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Carbon tetrachloride	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Benzene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,2-Dichloroethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Trichloroethene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Methylcyclohexane	11	U	11		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,2-Dichloropropane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Bromodichloromethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
cis-1,3-Dichloropropene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
4-Methyl-2-pentanone	26	U	26		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Toluene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
trans-1,3-Dichloropropene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,1,2-Trichloroethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Tetrachloroethene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
2-Hexanone	26	U	26		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Dibromochloromethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,2-Dibromoethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Chlorobenzene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Ethylbenzene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Xylenes, Total	11	U	11		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Styrene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Bromoform	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
Isopropylbenzene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,1,2,2-Tetrachloroethane	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,3-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,4-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,2-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1
1,2,4-Trichlorobenzene	5.3	U	5.3		ug/Kg	☼	10/15/12 12:28	10/20/12 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		65 - 130	10/15/12 12:28	10/20/12 20:15	1
4-Bromofluorobenzene	87		65 - 130	10/15/12 12:28	10/20/12 20:15	1
Dibromofluoromethane	105		65 - 130	10/15/12 12:28	10/20/12 20:15	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Phenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Bis(2-chloroethyl)ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
2-Chlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
2-Methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
bis (2-chloroisopropyl) ether	350	U *	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Acetophenone	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
3 & 4 Methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
N-Nitrosodi-n-propylamine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Hexachloroethane	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP06-00

Lab Sample ID: 680-83781-11

Date Collected: 10/10/12 15:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.8

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Isophorone	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
2-Nitrophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
2,4-Dimethylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Bis(2-chloroethoxy)methane	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
2,4-Dichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Naphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
4-Chloroaniline	700	U	700		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Hexachlorobutadiene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Caprolactam	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
4-Chloro-3-methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
2-Methylnaphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Hexachlorocyclopentadiene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
2,4,6-Trichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
2,4,5-Trichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
1,1'-Biphenyl	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
2-Chloronaphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
2-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Dimethyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
2,6-Dinitrotoluene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Acenaphthylene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
3-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Acenaphthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
2,4-Dinitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
4-Nitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Dibenzofuran	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
2,4-Dinitrotoluene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Diethyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Fluorene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
4-Chlorophenyl phenyl ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
4-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
4,6-Dinitro-2-methylphenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
N-Nitrosodiphenylamine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
4-Bromophenyl phenyl ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Hexachlorobenzene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Atrazine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Pentachlorophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Phenanthrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Carbazole	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Di-n-butyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Butyl benzyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
3,3'-Dichlorobenzidine	700	U	700		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Benzo[a]anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Chrysene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Bis(2-ethylhexyl) phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Di-n-octyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Benzo[b]fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Benzo[k]fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP06-00

Lab Sample ID: 680-83781-11

Date Collected: 10/10/12 15:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.8

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Indeno[1,2,3-cd]pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Dibenz(a,h)anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1
Benzo[g,h,i]perylene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/24/12 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	55		46 - 130	10/23/12 15:59	10/24/12 14:25	1
2-Fluorobiphenyl	66		58 - 130	10/23/12 15:59	10/24/12 14:25	1
Terphenyl-d14	68		60 - 130	10/23/12 15:59	10/24/12 14:25	1
Phenol-d5	55		49 - 130	10/23/12 15:59	10/24/12 14:25	1
2-Fluorophenol	57		40 - 130	10/23/12 15:59	10/24/12 14:25	1
2,4,6-Tribromophenol	64		58 - 130	10/23/12 15:59	10/24/12 14:25	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.28	U	0.28		mg/Kg	☼	10/15/12 10:21	10/15/12 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		70 - 131	10/15/12 10:21	10/15/12 16:45	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	17		3.5		mg/Kg	☼	10/17/12 09:07	10/19/12 02:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	71		56 - 135	10/17/12 09:07	10/19/12 02:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.0	U	1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Aluminum	13000		20		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Arsenic	4.6		2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Barium	110		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Beryllium	1.1		0.40		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Calcium	2900		50		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Cadmium	0.50	U	0.50		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Cobalt	3.4		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Chromium	10		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Copper	6.8		2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Iron	15000		20		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Potassium	2300		100		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Magnesium	2000		50		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Manganese	430		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Sodium	820		200		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Nickel	6.8		4.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Lead	9.9		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Antimony	2.0	U	2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Selenium	2.5	U	2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Thallium	2.5	U	2.5		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Vanadium	23		1.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1
Zinc	44		2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:30	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP06-00

Lab Sample ID: 680-83781-11

Date Collected: 10/10/12 15:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.8

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.021		mg/Kg	☼	10/16/12 10:34	10/17/12 22:24	1

Client Sample ID: BAND-ALF-TP01-00D

Lab Sample ID: 680-83781-12

Date Collected: 10/10/12 10:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Chloromethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Vinyl chloride	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Bromomethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Chloroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Trichlorofluoromethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
1,1-Dichloroethene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Acetone	51	U	51		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Carbon disulfide	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Methyl acetate	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Methylene Chloride	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
trans-1,2-Dichloroethene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Methyl tert-butyl ether	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
1,1-Dichloroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
cis-1,2-Dichloroethene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
2-Butanone	25	U	25		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Chloroform	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
1,1,1-Trichloroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Cyclohexane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Carbon tetrachloride	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Benzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
1,2-Dichloroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Trichloroethene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Methylcyclohexane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
1,2-Dichloropropane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Bromodichloromethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
cis-1,3-Dichloropropene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
4-Methyl-2-pentanone	25	U	25		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Toluene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
trans-1,3-Dichloropropene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
1,1,2-Trichloroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Tetrachloroethene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
2-Hexanone	25	U	25		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Dibromochloromethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
1,2-Dibromoethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Chlorobenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Ethylbenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Xylenes, Total	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Styrene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Bromoform	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Isopropylbenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
1,1,2,2-Tetrachloroethane	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP01-00D

Lab Sample ID: 680-83781-12

Date Collected: 10/10/12 10:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
1,4-Dichlorobenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
1,2-Dichlorobenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
1,2,4-Trichlorobenzene	5.1	U	5.1		ug/Kg	☼	10/15/12 12:28	10/20/12 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		65 - 130				10/15/12 12:28	10/20/12 20:38	1
4-Bromofluorobenzene	90		65 - 130				10/15/12 12:28	10/20/12 20:38	1
Dibromofluoromethane	102		65 - 130				10/15/12 12:28	10/20/12 20:38	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Phenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Bis(2-chloroethyl)ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
2-Chlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
2-Methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
bis (2-chloroisopropyl) ether	350	U *	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Acetophenone	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
3 & 4 Methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
N-Nitrosodi-n-propylamine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Hexachloroethane	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Nitrobenzene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Isophorone	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
2-Nitrophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
2,4-Dimethylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Bis(2-chloroethoxy)methane	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
2,4-Dichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Naphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
4-Chloroaniline	690	U	690		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Hexachlorobutadiene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Caprolactam	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
4-Chloro-3-methylphenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
2-Methylnaphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Hexachlorocyclopentadiene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
2,4,6-Trichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
2,4,5-Trichlorophenol	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
1,1'-Biphenyl	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
2-Chloronaphthalene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
2-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Dimethyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
2,6-Dinitrotoluene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Acenaphthylene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
3-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Acenaphthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
2,4-Dinitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
4-Nitrophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Dibenzofuran	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
2,4-Dinitrotoluene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Diethyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP01-00D

Lab Sample ID: 680-83781-12

Date Collected: 10/10/12 10:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.8

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
4-Chlorophenyl phenyl ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
4-Nitroaniline	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
4,6-Dinitro-2-methylphenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
N-Nitrosodiphenylamine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
4-Bromophenyl phenyl ether	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Hexachlorobenzene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Atrazine	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Pentachlorophenol	1800	U	1800		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Phenanthrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Carbazole	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Di-n-butyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Butyl benzyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
3,3'-Dichlorobenzidine	690	U	690		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Benzo[a]anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Chrysene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Bis(2-ethylhexyl) phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Di-n-octyl phthalate	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Benzo[b]fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Benzo[k]fluoranthene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Benzo[a]pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Indeno[1,2,3-cd]pyrene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Dibenz(a,h)anthracene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1
Benzo[g,h,i]perylene	350	U	350		ug/Kg	☼	10/23/12 15:59	10/25/12 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	54		46 - 130	10/23/12 15:59	10/25/12 14:03	1
2-Fluorobiphenyl	58		58 - 130	10/23/12 15:59	10/25/12 14:03	1
Terphenyl-d14	60		60 - 130	10/23/12 15:59	10/25/12 14:03	1
Phenol-d5	56		49 - 130	10/23/12 15:59	10/25/12 14:03	1
2-Fluorophenol	54		40 - 130	10/23/12 15:59	10/25/12 14:03	1
2,4,6-Tribromophenol	57	X	58 - 130	10/23/12 15:59	10/25/12 14:03	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	0.26	U	0.26		mg/Kg	☼	10/15/12 10:21	10/15/12 17:05	1
-C6-C10									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		70 - 131	10/15/12 10:21	10/15/12 17:05	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4.4		3.4		mg/Kg	☼	10/17/12 09:07	10/19/12 03:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		56 - 135	10/17/12 09:07	10/19/12 03:10	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP01-00D

Lab Sample ID: 680-83781-12

Date Collected: 10/10/12 10:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.98	U	0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Aluminum	9800		20		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Arsenic	2.5		2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Barium	84		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Beryllium	1.1		0.39		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Calcium	13000		49		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Cadmium	0.49	U	0.49		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Cobalt	2.5		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Chromium	7.0		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Copper	6.1		2.4		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Iron	11000		20		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Potassium	2100		98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Magnesium	2400		49		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Manganese	380		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Sodium	370		200		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Nickel	5.2		3.9		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Lead	9.7		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Antimony	2.0	U	2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Selenium	2.4	U	2.4		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Thallium	2.4	U	2.4		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Vanadium	16		0.98		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1
Zinc	49		2.0		mg/Kg	☼	10/15/12 13:01	10/23/12 07:36	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	U	0.021		mg/Kg	☼	10/16/12 10:34	10/17/12 22:27	1

Client Sample ID: BAND-TB01

Lab Sample ID: 680-83781-13

Date Collected: 10/10/12 10:00

Matrix: Water

Date Received: 10/13/12 11:01

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
Chloromethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
Vinyl chloride	1.0	U	1.0		ug/L			10/18/12 14:03	1
Bromomethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
Chloroethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			10/18/12 14:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
Acetone	25	U	25		ug/L			10/18/12 14:03	1
Carbon disulfide	2.0	U	2.0		ug/L			10/18/12 14:03	1
Methyl acetate	1.0	U	1.0		ug/L			10/18/12 14:03	1
Methylene Chloride	5.0	U	5.0		ug/L			10/18/12 14:03	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/18/12 14:03	1
Methyl tert-butyl ether	10	U	10		ug/L			10/18/12 14:03	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/18/12 14:03	1
2-Butanone	10	U	10		ug/L			10/18/12 14:03	1
Chloroform	1.0	U	1.0		ug/L			10/18/12 14:03	1

Client Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-TB01

Lab Sample ID: 680-83781-13

Date Collected: 10/10/12 10:00

Matrix: Water

Date Received: 10/13/12 11:01

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
Cyclohexane	1.0	U	1.0		ug/L			10/18/12 14:03	1
Carbon tetrachloride	1.0	U	1.0		ug/L			10/18/12 14:03	1
Benzene	1.0	U	1.0		ug/L			10/18/12 14:03	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
Trichloroethene	1.0	U	1.0		ug/L			10/18/12 14:03	1
Methylcyclohexane	1.0	U	1.0		ug/L			10/18/12 14:03	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			10/18/12 14:03	1
Bromodichloromethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/18/12 14:03	1
4-Methyl-2-pentanone	10	U	10		ug/L			10/18/12 14:03	1
Toluene	1.0	U	1.0		ug/L			10/18/12 14:03	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/18/12 14:03	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
Tetrachloroethene	1.0	U	1.0		ug/L			10/18/12 14:03	1
2-Hexanone	10	U	10		ug/L			10/18/12 14:03	1
Dibromochloromethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
Chlorobenzene	1.0	U	1.0		ug/L			10/18/12 14:03	1
Ethylbenzene	1.0	U	1.0		ug/L			10/18/12 14:03	1
Xylenes, Total	2.0	U	2.0		ug/L			10/18/12 14:03	1
Styrene	1.0	U	1.0		ug/L			10/18/12 14:03	1
Bromoform	1.0	U	1.0		ug/L			10/18/12 14:03	1
Isopropylbenzene	1.0	U	1.0		ug/L			10/18/12 14:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			10/18/12 14:03	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			10/18/12 14:03	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			10/18/12 14:03	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			10/18/12 14:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0		ug/L			10/18/12 14:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			10/18/12 14:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130					10/18/12 14:03	1
4-Bromofluorobenzene	95		70 - 130					10/18/12 14:03	1
Dibromofluoromethane	103		70 - 130					10/18/12 14:03	1

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-253368/7

Matrix: Water

Analysis Batch: 253368

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
Chloromethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
Vinyl chloride	1.0	U	1.0		ug/L			10/18/12 13:34	1
Bromomethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
Chloroethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			10/18/12 13:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
Acetone	25	U	25		ug/L			10/18/12 13:34	1
Carbon disulfide	2.0	U	2.0		ug/L			10/18/12 13:34	1
Methyl acetate	1.0	U	1.0		ug/L			10/18/12 13:34	1
Methylene Chloride	5.0	U	5.0		ug/L			10/18/12 13:34	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/18/12 13:34	1
Methyl tert-butyl ether	10	U	10		ug/L			10/18/12 13:34	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			10/18/12 13:34	1
2-Butanone	10	U	10		ug/L			10/18/12 13:34	1
Chloroform	1.0	U	1.0		ug/L			10/18/12 13:34	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
Cyclohexane	1.0	U	1.0		ug/L			10/18/12 13:34	1
Carbon tetrachloride	1.0	U	1.0		ug/L			10/18/12 13:34	1
Benzene	1.0	U	1.0		ug/L			10/18/12 13:34	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
Trichloroethene	1.0	U	1.0		ug/L			10/18/12 13:34	1
Methylcyclohexane	1.0	U	1.0		ug/L			10/18/12 13:34	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			10/18/12 13:34	1
Bromodichloromethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/18/12 13:34	1
4-Methyl-2-pentanone	10	U	10		ug/L			10/18/12 13:34	1
Toluene	1.0	U	1.0		ug/L			10/18/12 13:34	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			10/18/12 13:34	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
Tetrachloroethene	1.0	U	1.0		ug/L			10/18/12 13:34	1
2-Hexanone	10	U	10		ug/L			10/18/12 13:34	1
Dibromochloromethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
Chlorobenzene	1.0	U	1.0		ug/L			10/18/12 13:34	1
Ethylbenzene	1.0	U	1.0		ug/L			10/18/12 13:34	1
Xylenes, Total	2.0	U	2.0		ug/L			10/18/12 13:34	1
Styrene	1.0	U	1.0		ug/L			10/18/12 13:34	1
Bromoform	1.0	U	1.0		ug/L			10/18/12 13:34	1
Isopropylbenzene	1.0	U	1.0		ug/L			10/18/12 13:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			10/18/12 13:34	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			10/18/12 13:34	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			10/18/12 13:34	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			10/18/12 13:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0		ug/L			10/18/12 13:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			10/18/12 13:34	1

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-253368/7

Matrix: Water

Analysis Batch: 253368

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		10/18/12 13:34	1
4-Bromofluorobenzene	99		70 - 130		10/18/12 13:34	1
Dibromofluoromethane	110		70 - 130		10/18/12 13:34	1

Lab Sample ID: LCS 680-253368/4

Matrix: Water

Analysis Batch: 253368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	50.0	41.2		ug/L		82	44 - 146
Chloromethane	50.0	41.6		ug/L		83	70 - 130
Vinyl chloride	25.0	22.6		ug/L		90	67 - 134
Bromomethane	50.0	30.9		ug/L		62	23 - 165
Chloroethane	50.0	44.1		ug/L		88	56 - 152
Trichlorofluoromethane	50.0	50.0		ug/L		100	55 - 156
1,1-Dichloroethene	50.0	50.4		ug/L		101	66 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.4		ug/L		99	60 - 135
Acetone	100	93.4		ug/L		93	26 - 180
Carbon disulfide	50.0	49.6		ug/L		99	54 - 132
Methyl acetate	50.0	46.8		ug/L		94	70 - 130
Methylene Chloride	50.0	49.4		ug/L		99	67 - 130
trans-1,2-Dichloroethene	50.0	50.8		ug/L		102	70 - 130
Methyl tert-butyl ether	100	98.9		ug/L		99	64 - 131
1,1-Dichloroethane	50.0	48.0		ug/L		96	70 - 130
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	70 - 130
2-Butanone	100	89.9		ug/L		90	49 - 172
Chloroform	50.0	50.6		ug/L		101	70 - 130
1,1,1-Trichloroethane	50.0	53.6		ug/L		107	70 - 130
Cyclohexane	50.0	49.7		ug/L		99	70 - 132
Carbon tetrachloride	50.0	54.3		ug/L		109	70 - 130
Benzene	50.0	50.1		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	50.3		ug/L		101	70 - 130
Trichloroethene	50.0	52.6		ug/L		105	70 - 130
Methylcyclohexane	50.0	52.2		ug/L		104	70 - 134
1,2-Dichloropropane	50.0	49.6		ug/L		99	70 - 130
Bromodichloromethane	50.0	52.1		ug/L		104	70 - 130
cis-1,3-Dichloropropene	50.0	51.5		ug/L		103	70 - 130
4-Methyl-2-pentanone	100	93.8		ug/L		94	70 - 130
Toluene	50.0	50.8		ug/L		102	70 - 130
trans-1,3-Dichloropropene	50.0	51.2		ug/L		102	70 - 130
1,1,2-Trichloroethane	50.0	50.3		ug/L		101	70 - 130
Tetrachloroethene	50.0	57.8		ug/L		116	70 - 130
2-Hexanone	100	101		ug/L		101	42 - 185
Dibromochloromethane	50.0	57.0		ug/L		114	70 - 130
1,2-Dibromoethane	50.0	51.6		ug/L		103	70 - 130
Chlorobenzene	50.0	55.5		ug/L		111	70 - 130
Ethylbenzene	50.0	54.8		ug/L		110	70 - 130
Xylenes, Total	150	166		ug/L		110	70 - 130
Styrene	50.0	56.4		ug/L		113	70 - 130

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-253368/4

Matrix: Water

Analysis Batch: 253368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromofom	50.0	57.9		ug/L		116	70 - 130
Isopropylbenzene	50.0	55.2		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.4		ug/L		105	70 - 130
1,3-Dichlorobenzene	50.0	55.9		ug/L		112	70 - 130
1,4-Dichlorobenzene	50.0	55.1		ug/L		110	70 - 130
1,2-Dichlorobenzene	50.0	55.9		ug/L		112	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	58.0		ug/L		116	70 - 130
1,2,4-Trichlorobenzene	50.0	60.2		ug/L		120	65 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	103		70 - 130
4-Bromofluorobenzene	111		70 - 130
Dibromofluoromethane	102		70 - 130

Lab Sample ID: LCSD 680-253368/5

Matrix: Water

Analysis Batch: 253368

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	50.0	41.1		ug/L		82	44 - 146	0	50
Chloromethane	50.0	41.4		ug/L		83	70 - 130	0	30
Vinyl chloride	25.0	22.5		ug/L		90	67 - 134	0	30
Bromomethane	50.0	36.2		ug/L		72	23 - 165	16	50
Chloroethane	50.0	43.6		ug/L		87	56 - 152	1	40
Trichlorofluoromethane	50.0	50.1		ug/L		100	55 - 156	0	30
1,1-Dichloroethene	50.0	50.9		ug/L		102	66 - 131	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.7		ug/L		99	60 - 135	1	30
Acetone	100	93.5		ug/L		93	26 - 180	0	50
Carbon disulfide	50.0	50.1		ug/L		100	54 - 132	1	30
Methyl acetate	50.0	47.4		ug/L		95	70 - 130	1	30
Methylene Chloride	50.0	49.3		ug/L		99	67 - 130	0	30
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	70 - 130	2	30
Methyl tert-butyl ether	100	100		ug/L		100	64 - 131	1	30
1,1-Dichloroethane	50.0	48.3		ug/L		97	70 - 130	1	30
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	70 - 130	0	30
2-Butanone	100	93.2		ug/L		93	49 - 172	4	30
Chloroform	50.0	50.4		ug/L		101	70 - 130	0	30
1,1,1-Trichloroethane	50.0	53.0		ug/L		106	70 - 130	1	30
Cyclohexane	50.0	49.4		ug/L		99	70 - 132	1	30
Carbon tetrachloride	50.0	55.0		ug/L		110	70 - 130	1	30
Benzene	50.0	50.0		ug/L		100	70 - 130	0	30
1,2-Dichloroethane	50.0	49.8		ug/L		100	70 - 130	1	30
Trichloroethene	50.0	52.8		ug/L		106	70 - 130	0	30
Methylcyclohexane	50.0	52.7		ug/L		105	70 - 134	1	30
1,2-Dichloropropane	50.0	49.0		ug/L		98	70 - 130	1	30
Bromodichloromethane	50.0	50.7		ug/L		101	70 - 130	3	30
cis-1,3-Dichloropropene	50.0	51.0		ug/L		102	70 - 130	1	30
4-Methyl-2-pentanone	100	94.3		ug/L		94	70 - 130	1	30
Toluene	50.0	51.1		ug/L		102	70 - 130	1	30

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-253368/5

Matrix: Water

Analysis Batch: 253368

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	50.0	50.5		ug/L		101	70 - 130	1	50
1,1,2-Trichloroethane	50.0	50.1		ug/L		100	70 - 130	0	30
Tetrachloroethene	50.0	57.6		ug/L		115	70 - 130	0	30
2-Hexanone	100	102		ug/L		102	42 - 185	1	30
Dibromochloromethane	50.0	56.4		ug/L		113	70 - 130	1	50
1,2-Dibromoethane	50.0	52.5		ug/L		105	70 - 130	2	30
Chlorobenzene	50.0	54.6		ug/L		109	70 - 130	2	30
Ethylbenzene	50.0	54.1		ug/L		108	70 - 130	1	30
Xylenes, Total	150	165		ug/L		110	70 - 130	0	30
Styrene	50.0	55.8		ug/L		112	70 - 130	1	30
Bromoform	50.0	56.7		ug/L		113	70 - 130	2	30
Isopropylbenzene	50.0	55.4		ug/L		111	70 - 130	0	30
1,1,2,2-Tetrachloroethane	50.0	52.9		ug/L		106	70 - 130	1	30
1,3-Dichlorobenzene	50.0	55.5		ug/L		111	70 - 130	1	30
1,4-Dichlorobenzene	50.0	55.1		ug/L		110	70 - 130	0	30
1,2-Dichlorobenzene	50.0	55.7		ug/L		111	70 - 130	0	30
1,2-Dibromo-3-Chloropropane	50.0	56.0		ug/L		112	70 - 130	4	50
1,2,4-Trichlorobenzene	50.0	59.4		ug/L		119	65 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Toluene-d8 (Surr)	103		70 - 130
4-Bromofluorobenzene	110		70 - 130
Dibromofluoromethane	102		70 - 130

Lab Sample ID: MB 680-253649/7

Matrix: Solid

Analysis Batch: 253649

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Chloromethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Vinyl chloride	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Bromomethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Chloroethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Trichlorofluoromethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Acetone	50	U	50		ug/Kg			10/20/12 14:11	1
Carbon disulfide	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Methyl acetate	10	U	10		ug/Kg			10/20/12 14:11	1
Methylene Chloride	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
trans-1,2-Dichloroethene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Methyl tert-butyl ether	10	U	10		ug/Kg			10/20/12 14:11	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
cis-1,2-Dichloroethene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
2-Butanone	25	U	25		ug/Kg			10/20/12 14:11	1
Chloroform	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Cyclohexane	10	U	10		ug/Kg			10/20/12 14:11	1

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-253649/7

Matrix: Solid

Analysis Batch: 253649

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Benzene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Trichloroethene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Methylcyclohexane	10	U	10		ug/Kg			10/20/12 14:11	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Bromodichloromethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
4-Methyl-2-pentanone	25	U	25		ug/Kg			10/20/12 14:11	1
Toluene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Tetrachloroethene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
2-Hexanone	25	U	25		ug/Kg			10/20/12 14:11	1
Dibromochloromethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
1,2-Dibromoethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Chlorobenzene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Ethylbenzene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Xylenes, Total	10	U	10		ug/Kg			10/20/12 14:11	1
Styrene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Bromoform	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Isopropylbenzene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg			10/20/12 14:11	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/Kg			10/20/12 14:11	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		65 - 130					10/20/12 14:11	1
4-Bromofluorobenzene	98		65 - 130					10/20/12 14:11	1
Dibromofluoromethane	104		65 - 130					10/20/12 14:11	1

Lab Sample ID: LCS 680-253649/4

Matrix: Solid

Analysis Batch: 253649

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	50.0	50.3		ug/Kg		101	41 - 137
Chloromethane	50.0	47.3		ug/Kg		95	62 - 135
Vinyl chloride	50.0	51.1		ug/Kg		102	65 - 135
Bromomethane	50.0	50.3		ug/Kg		101	44 - 130
Chloroethane	50.0	49.7		ug/Kg		99	36 - 150
Trichlorofluoromethane	50.0	50.9		ug/Kg		102	68 - 130
1,1-Dichloroethene	50.0	49.7		ug/Kg		99	69 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.2		ug/Kg		98	70 - 130
Acetone	100	92.9		ug/Kg		93	42 - 130
Carbon disulfide	50.0	50.3		ug/Kg		101	40 - 136

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-253649/4

Matrix: Solid

Analysis Batch: 253649

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl acetate	50.0	45.9		ug/Kg		92	52 - 134
Methylene Chloride	50.0	48.9		ug/Kg		98	52 - 135
trans-1,2-Dichloroethene	50.0	50.3		ug/Kg		101	70 - 130
Methyl tert-butyl ether	100	96.8		ug/Kg		97	70 - 130
1,1-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 130
cis-1,2-Dichloroethene	50.0	50.5		ug/Kg		101	70 - 130
2-Butanone	100	97.6		ug/Kg		98	70 - 130
Chloroform	50.0	49.8		ug/Kg		100	70 - 130
1,1,1-Trichloroethane	50.0	52.9		ug/Kg		106	69 - 130
Cyclohexane	50.0	51.7		ug/Kg		103	70 - 130
Carbon tetrachloride	50.0	53.6		ug/Kg		107	68 - 130
Benzene	50.0	51.1		ug/Kg		102	70 - 130
1,2-Dichloroethane	50.0	52.6		ug/Kg		105	66 - 130
Trichloroethene	50.0	51.4		ug/Kg		103	70 - 130
Methylcyclohexane	50.0	52.3		ug/Kg		105	70 - 130
1,2-Dichloropropane	50.0	51.2		ug/Kg		102	70 - 130
Bromodichloromethane	50.0	51.7		ug/Kg		103	70 - 130
cis-1,3-Dichloropropene	50.0	51.6		ug/Kg		103	70 - 130
4-Methyl-2-pentanone	100	99.1		ug/Kg		99	64 - 130
Toluene	50.0	51.4		ug/Kg		103	70 - 130
trans-1,3-Dichloropropene	50.0	52.4		ug/Kg		105	69 - 130
1,1,2-Trichloroethane	50.0	51.6		ug/Kg		103	70 - 130
Tetrachloroethene	50.0	49.5		ug/Kg		99	70 - 130
2-Hexanone	100	99.5		ug/Kg		100	65 - 130
Dibromochloromethane	50.0	49.2		ug/Kg		98	70 - 130
1,2-Dibromoethane	50.0	51.9		ug/Kg		104	70 - 130
Chlorobenzene	50.0	50.1		ug/Kg		100	70 - 130
Ethylbenzene	50.0	50.0		ug/Kg		100	70 - 130
Xylenes, Total	150	150		ug/Kg		100	70 - 130
Styrene	50.0	50.2		ug/Kg		100	70 - 130
Bromoform	50.0	47.8		ug/Kg		96	70 - 130
Isopropylbenzene	50.0	49.8		ug/Kg		100	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.6		ug/Kg		95	70 - 130
1,3-Dichlorobenzene	50.0	49.6		ug/Kg		99	70 - 130
1,4-Dichlorobenzene	50.0	49.2		ug/Kg		98	70 - 130
1,2-Dichlorobenzene	50.0	50.0		ug/Kg		100	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	43.9		ug/Kg		88	67 - 130
1,2,4-Trichlorobenzene	50.0	49.3		ug/Kg		99	68 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	106		65 - 130
4-Bromofluorobenzene	103		65 - 130
Dibromofluoromethane	101		65 - 130

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-253649/5

Matrix: Solid

Analysis Batch: 253649

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	50.0	52.6		ug/Kg		105	41 - 137	4	50
Chloromethane	50.0	48.3		ug/Kg		97	62 - 135	2	50
Vinyl chloride	50.0	51.1		ug/Kg		102	65 - 135	0	50
Bromomethane	50.0	51.6		ug/Kg		103	44 - 130	3	50
Chloroethane	50.0	51.8		ug/Kg		104	36 - 150	4	50
Trichlorofluoromethane	50.0	52.2		ug/Kg		104	68 - 130	3	50
1,1-Dichloroethene	50.0	51.3		ug/Kg		103	69 - 130	3	50
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.0		ug/Kg		100	70 - 130	2	50
Acetone	100	93.7		ug/Kg		94	42 - 130	1	50
Carbon disulfide	50.0	51.4		ug/Kg		103	40 - 136	2	50
Methyl acetate	50.0	49.3		ug/Kg		99	52 - 134	7	50
Methylene Chloride	50.0	51.5		ug/Kg		103	52 - 135	5	50
trans-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	70 - 130	2	50
Methyl tert-butyl ether	100	105		ug/Kg		105	70 - 130	9	50
1,1-Dichloroethane	50.0	51.5		ug/Kg		103	70 - 130	5	50
cis-1,2-Dichloroethene	50.0	51.4		ug/Kg		103	70 - 130	2	50
2-Butanone	100	104		ug/Kg		104	70 - 130	7	50
Chloroform	50.0	52.0		ug/Kg		104	70 - 130	4	50
1,1,1-Trichloroethane	50.0	54.0		ug/Kg		108	69 - 130	2	50
Cyclohexane	50.0	51.8		ug/Kg		104	70 - 130	0	50
Carbon tetrachloride	50.0	53.8		ug/Kg		108	68 - 130	0	50
Benzene	50.0	52.2		ug/Kg		104	70 - 130	2	50
1,2-Dichloroethane	50.0	54.8		ug/Kg		110	66 - 130	4	50
Trichloroethene	50.0	51.9		ug/Kg		104	70 - 130	1	50
Methylcyclohexane	50.0	53.4		ug/Kg		107	70 - 130	2	50
1,2-Dichloropropane	50.0	52.3		ug/Kg		105	70 - 130	2	50
Bromodichloromethane	50.0	53.6		ug/Kg		107	70 - 130	4	50
cis-1,3-Dichloropropene	50.0	54.5		ug/Kg		109	70 - 130	5	50
4-Methyl-2-pentanone	100	106		ug/Kg		106	64 - 130	6	50
Toluene	50.0	51.7		ug/Kg		103	70 - 130	1	50
trans-1,3-Dichloropropene	50.0	53.0		ug/Kg		106	69 - 130	1	50
1,1,2-Trichloroethane	50.0	53.9		ug/Kg		108	70 - 130	4	50
Tetrachloroethene	50.0	50.1		ug/Kg		100	70 - 130	1	50
2-Hexanone	100	106		ug/Kg		106	65 - 130	7	50
Dibromochloromethane	50.0	51.0		ug/Kg		102	70 - 130	3	50
1,2-Dibromoethane	50.0	51.7		ug/Kg		103	70 - 130	0	50
Chlorobenzene	50.0	50.6		ug/Kg		101	70 - 130	1	50
Ethylbenzene	50.0	51.3		ug/Kg		103	70 - 130	3	50
Xylenes, Total	150	152		ug/Kg		101	70 - 130	1	50
Styrene	50.0	50.8		ug/Kg		102	70 - 130	1	50
Bromoform	50.0	52.4		ug/Kg		105	70 - 130	9	50
Isopropylbenzene	50.0	51.0		ug/Kg		102	70 - 130	2	50
1,1,2,2-Tetrachloroethane	50.0	50.8		ug/Kg		102	70 - 130	7	50
1,3-Dichlorobenzene	50.0	50.3		ug/Kg		101	70 - 130	1	50
1,4-Dichlorobenzene	50.0	49.8		ug/Kg		100	70 - 130	1	50
1,2-Dichlorobenzene	50.0	50.6		ug/Kg		101	70 - 130	1	50
1,2-Dibromo-3-Chloropropane	50.0	48.1		ug/Kg		96	67 - 130	9	50
1,2,4-Trichlorobenzene	50.0	50.1		ug/Kg		100	68 - 130	2	50

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-253649/5

Matrix: Solid

Analysis Batch: 253649

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	107		65 - 130
4-Bromofluorobenzene	104		65 - 130
Dibromofluoromethane	104		65 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-253131/13-A

Matrix: Solid

Analysis Batch: 253462

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Phenol	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Bis(2-chloroethyl)ether	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
2-Chlorophenol	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
2-Methylphenol	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
bis (2-chloroisopropyl) ether	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Acetophenone	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
3 & 4 Methylphenol	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
N-Nitrosodi-n-propylamine	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Hexachloroethane	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Nitrobenzene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Isophorone	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
2-Nitrophenol	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
2,4-Dimethylphenol	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Bis(2-chloroethoxy)methane	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
2,4-Dichlorophenol	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Naphthalene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
4-Chloroaniline	650	U	650		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Hexachlorobutadiene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Caprolactam	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
4-Chloro-3-methylphenol	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
2-Methylnaphthalene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Hexachlorocyclopentadiene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
2,4,6-Trichlorophenol	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
2,4,5-Trichlorophenol	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
1,1'-Biphenyl	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
2-Chloronaphthalene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
2-Nitroaniline	1700	U	1700		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Dimethyl phthalate	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
2,6-Dinitrotoluene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Acenaphthylene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
3-Nitroaniline	1700	U	1700		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Acenaphthene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
2,4-Dinitrophenol	1700	U	1700		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
4-Nitrophenol	1700	U	1700		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Dibenzofuran	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
2,4-Dinitrotoluene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Diethyl phthalate	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-253131/13-A

Matrix: Solid

Analysis Batch: 253462

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
4-Chlorophenyl phenyl ether	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
4-Nitroaniline	1700	U	1700		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
4,6-Dinitro-2-methylphenol	1700	U	1700		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
N-Nitrosodiphenylamine	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
4-Bromophenyl phenyl ether	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Hexachlorobenzene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Atrazine	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Pentachlorophenol	1700	U	1700		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Phenanthrene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Anthracene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Carbazole	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Di-n-butyl phthalate	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Fluoranthene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Pyrene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Butyl benzyl phthalate	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
3,3'-Dichlorobenzidine	650	U	650		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Benzo[a]anthracene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Chrysene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Bis(2-ethylhexyl) phthalate	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Di-n-octyl phthalate	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Benzo[b]fluoranthene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Benzo[k]fluoranthene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Benzo[a]pyrene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Indeno[1,2,3-cd]pyrene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Dibenz(a,h)anthracene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1
Benzo[g,h,i]perylene	330	U	330		ug/Kg		10/17/12 10:26	10/18/12 15:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		46 - 130	10/17/12 10:26	10/18/12 15:25	1
2-Fluorobiphenyl	68		58 - 130	10/17/12 10:26	10/18/12 15:25	1
Terphenyl-d14	78		60 - 130	10/17/12 10:26	10/18/12 15:25	1
Phenol-d5	67		49 - 130	10/17/12 10:26	10/18/12 15:25	1
2-Fluorophenol	64		40 - 130	10/17/12 10:26	10/18/12 15:25	1
2,4,6-Tribromophenol	66		58 - 130	10/17/12 10:26	10/18/12 15:25	1

Lab Sample ID: LCS 680-253131/14-A

Matrix: Solid

Analysis Batch: 253462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzaldehyde	3330	471		ug/Kg		14	10 - 130
Phenol	3330	1630		ug/Kg		49	46 - 130
Bis(2-chloroethyl)ether	3330	1820		ug/Kg		55	42 - 130
2-Chlorophenol	3330	1690		ug/Kg		51	51 - 130
2-Methylphenol	3330	2510		ug/Kg		75	49 - 130
bis (2-chloroisopropyl) ether	3330	2020		ug/Kg		61	44 - 130
Acetophenone	3330	1560		ug/Kg		47	42 - 130
3 & 4 Methylphenol	3330	1670		ug/Kg		50	50 - 130

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-253131/14-A

Matrix: Solid

Analysis Batch: 253462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodi-n-propylamine	3330	1750		ug/Kg		53	48 - 130
Hexachloroethane	3330	1590		ug/Kg		48	44 - 130
Nitrobenzene	3330	1760		ug/Kg		53	43 - 130
Isophorone	3330	1820		ug/Kg		55	48 - 130
2-Nitrophenol	3330	1770		ug/Kg		53	45 - 130
2,4-Dimethylphenol	3330	1670		ug/Kg		50	47 - 130
Bis(2-chloroethoxy)methane	3330	1920		ug/Kg		58	56 - 130
2,4-Dichlorophenol	3330	1820		ug/Kg		55	53 - 130
Naphthalene	3330	1770	*	ug/Kg		53	54 - 130
4-Chloroaniline	3330	1490		ug/Kg		45	36 - 130
Hexachlorobutadiene	3330	1910		ug/Kg		57	47 - 130
Caprolactam	3330	1850		ug/Kg		56	52 - 130
4-Chloro-3-methylphenol	3330	1940		ug/Kg		58	52 - 130
2-Methylnaphthalene	3330	1820		ug/Kg		55	55 - 130
Hexachlorocyclopentadiene	3330	1450		ug/Kg		43	35 - 130
2,4,6-Trichlorophenol	3330	1950		ug/Kg		59	53 - 130
2,4,5-Trichlorophenol	3330	1980		ug/Kg		60	60 - 130
1,1'-Biphenyl	3330	1770	*	ug/Kg		53	57 - 130
2-Chloronaphthalene	3330	1850		ug/Kg		56	55 - 130
2-Nitroaniline	3330	2120		ug/Kg		64	52 - 130
Dimethyl phthalate	3330	2100		ug/Kg		63	63 - 130
2,6-Dinitrotoluene	3330	1980		ug/Kg		60	57 - 130
Acenaphthylene	3330	2010		ug/Kg		60	58 - 130
3-Nitroaniline	3330	1790		ug/Kg		54	42 - 130
Acenaphthene	3330	1830	*	ug/Kg		55	58 - 130
2,4-Dinitrophenol	3330	1700	U	ug/Kg		20	10 - 154
4-Nitrophenol	3330	2120		ug/Kg		64	30 - 130
Dibenzofuran	3330	1950		ug/Kg		59	56 - 130
2,4-Dinitrotoluene	3330	1990		ug/Kg		60	55 - 130
Diethyl phthalate	3330	2170		ug/Kg		65	62 - 130
Fluorene	3330	2100		ug/Kg		63	58 - 130
4-Chlorophenyl phenyl ether	3330	2050		ug/Kg		62	61 - 130
4-Nitroaniline	3330	1990		ug/Kg		60	49 - 130
4,6-Dinitro-2-methylphenol	3330	1700	U	ug/Kg		38	14 - 137
N-Nitrosodiphenylamine	3330	2110		ug/Kg		63	62 - 130
4-Bromophenyl phenyl ether	3330	2100	*	ug/Kg		63	65 - 130
Hexachlorobenzene	3330	1920	*	ug/Kg		58	59 - 130
Atrazine	3330	2080		ug/Kg		63	54 - 141
Pentachlorophenol	3330	1700	U	ug/Kg		45	38 - 131
Phenanthrene	3330	2070		ug/Kg		62	61 - 130
Anthracene	3330	1990		ug/Kg		60	60 - 130
Carbazole	3330	2090		ug/Kg		63	60 - 130
Di-n-butyl phthalate	3330	2210		ug/Kg		66	65 - 130
Fluoranthene	3330	2110		ug/Kg		64	62 - 130
Pyrene	3330	2130		ug/Kg		64	59 - 130
Butyl benzyl phthalate	3330	2290		ug/Kg		69	65 - 134
3,3'-Dichlorobenzidine	3330	1560		ug/Kg		47	45 - 130
Benzo[a]anthracene	3330	2230		ug/Kg		67	62 - 130
Chrysene	3330	2150		ug/Kg		65	62 - 130
Bis(2-ethylhexyl) phthalate	3330	2300		ug/Kg		69	62 - 132

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-253131/14-A

Matrix: Solid

Analysis Batch: 253462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate	3330	2230		ug/Kg		67	59 - 146
Benzo[b]fluoranthene	3330	2110		ug/Kg		63	53 - 130
Benzo[k]fluoranthene	3330	2040		ug/Kg		61	57 - 130
Benzo[a]pyrene	3330	2280		ug/Kg		69	68 - 131
Indeno[1,2,3-cd]pyrene	3330	2130		ug/Kg		64	52 - 130
Dibenz(a,h)anthracene	3330	2200		ug/Kg		66	56 - 130
Benzo[g,h,i]perylene	3330	2180		ug/Kg		66	54 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	50		46 - 130
2-Fluorobiphenyl	55	X	58 - 130
Terphenyl-d14	59	X	60 - 130
Phenol-d5	50		49 - 130
2-Fluorophenol	47		40 - 130
2,4,6-Tribromophenol	60		58 - 130

Lab Sample ID: 680-83781-A-8-C MS

Matrix: Solid

Analysis Batch: 253462

Client Sample ID: 680-83781-A-8-C MS

Prep Type: Total/NA

Prep Batch: 253131

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzaldehyde	340		3470	1050		ug/Kg	✱	30	10 - 130
Phenol	340		3470	2010		ug/Kg	✱	58	46 - 130
Bis(2-chloroethyl)ether	340		3470	2240		ug/Kg	✱	65	42 - 130
2-Chlorophenol	340		3470	2090		ug/Kg	✱	60	51 - 130
2-Methylphenol	340		3470	3000		ug/Kg	✱	87	49 - 130
bis (2-chloroisopropyl) ether	340		3470	2470		ug/Kg	✱	71	44 - 130
Acetophenone	340		3470	1860		ug/Kg	✱	54	42 - 130
3 & 4 Methylphenol	340		3470	2000		ug/Kg	✱	58	50 - 130
N-Nitrosodi-n-propylamine	340		3470	2230		ug/Kg	✱	64	48 - 130
Hexachloroethane	340		3470	2020		ug/Kg	✱	58	44 - 130
Nitrobenzene	340		3470	2000		ug/Kg	✱	58	43 - 130
Isophorone	340		3470	2070		ug/Kg	✱	60	48 - 130
2-Nitrophenol	340		3470	1960		ug/Kg	✱	56	45 - 130
2,4-Dimethylphenol	340		3470	1780		ug/Kg	✱	51	47 - 130
Bis(2-chloroethoxy)methane	340		3470	2230		ug/Kg	✱	64	56 - 130
2,4-Dichlorophenol	340		3470	2070		ug/Kg	✱	60	53 - 130
Naphthalene	340		3470	2040		ug/Kg	✱	59	54 - 130
4-Chloroaniline	680		3470	1780		ug/Kg	✱	51	36 - 130
Hexachlorobutadiene	340		3470	2240		ug/Kg	✱	65	47 - 130
Caprolactam	340		3470	1890		ug/Kg	✱	55	52 - 130
4-Chloro-3-methylphenol	340		3470	2190		ug/Kg	✱	63	52 - 130
2-Methylnaphthalene	340		3470	2090		ug/Kg	✱	60	55 - 130
Hexachlorocyclopentadiene	340		3470	1700		ug/Kg	✱	49	35 - 130
2,4,6-Trichlorophenol	340		3470	2150		ug/Kg	✱	62	53 - 130
2,4,5-Trichlorophenol	340		3470	2250		ug/Kg	✱	65	60 - 130
1,1'-Biphenyl	340		3470	2050		ug/Kg	✱	59	57 - 130
2-Chloronaphthalene	340		3470	2120		ug/Kg	✱	61	55 - 130
2-Nitroaniline	1800		3470	2390		ug/Kg	✱	69	52 - 130

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-83781-A-8-C MS

Matrix: Solid

Analysis Batch: 253462

Client Sample ID: 680-83781-A-8-C MS

Prep Type: Total/NA

Prep Batch: 253131

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	340		3470	2320		ug/Kg	✱	67	63 - 130
2,6-Dinitrotoluene	340		3470	2170		ug/Kg	✱	63	57 - 130
Acenaphthylene	340		3470	2250		ug/Kg	✱	65	58 - 130
3-Nitroaniline	1800		3470	2080		ug/Kg	✱	60	42 - 130
Acenaphthene	340		3470	2120		ug/Kg	✱	61	58 - 130
2,4-Dinitrophenol	1800		3470	1800	U	ug/Kg	✱	34	10 - 154
4-Nitrophenol	1800		3470	2340		ug/Kg	✱	67	30 - 130
Dibenzofuran	340		3470	2170		ug/Kg	✱	62	56 - 130
2,4-Dinitrotoluene	340		3470	2240		ug/Kg	✱	65	55 - 130
Diethyl phthalate	340		3470	2450		ug/Kg	✱	71	62 - 130
Fluorene	340		3470	2350		ug/Kg	✱	68	58 - 130
4-Chlorophenyl phenyl ether	340		3470	2290		ug/Kg	✱	66	61 - 130
4-Nitroaniline	1800		3470	2170		ug/Kg	✱	63	49 - 130
4,6-Dinitro-2-methylphenol	1800		3470	1800	U	ug/Kg	✱	44	14 - 137
N-Nitrosodiphenylamine	340		3470	2390		ug/Kg	✱	69	62 - 130
4-Bromophenyl phenyl ether	340		3470	2380		ug/Kg	✱	69	65 - 130
Hexachlorobenzene	340		3470	2240		ug/Kg	✱	65	59 - 130
Atrazine	340		3470	2390		ug/Kg	✱	69	54 - 141
Pentachlorophenol	1800		3470	1800	U	ug/Kg	✱	42	38 - 131
Phenanthrene	340		3470	2370		ug/Kg	✱	68	61 - 130
Anthracene	340		3470	2260		ug/Kg	✱	65	60 - 130
Carbazole	340		3470	2400		ug/Kg	✱	69	60 - 130
Di-n-butyl phthalate	340		3470	2520		ug/Kg	✱	73	65 - 130
Fluoranthene	340		3470	2380		ug/Kg	✱	69	62 - 130
Pyrene	340		3470	2430		ug/Kg	✱	70	59 - 130
Butyl benzyl phthalate	340		3470	2600		ug/Kg	✱	75	65 - 134
3,3'-Dichlorobenzidine	680		3470	1540		ug/Kg	✱	45	45 - 130
Benzo[a]anthracene	340		3470	2550		ug/Kg	✱	73	62 - 130
Chrysene	340		3470	2480		ug/Kg	✱	71	62 - 130
Bis(2-ethylhexyl) phthalate	340		3470	2740		ug/Kg	✱	79	62 - 132
Di-n-octyl phthalate	340		3470	2520		ug/Kg	✱	73	59 - 146
Benzo[b]fluoranthene	340		3470	2630		ug/Kg	✱	76	53 - 130
Benzo[k]fluoranthene	340		3470	2410		ug/Kg	✱	70	57 - 130
Benzo[a]pyrene	340		3470	2470		ug/Kg	✱	71	68 - 131
Indeno[1,2,3-cd]pyrene	340		3470	2080		ug/Kg	✱	60	52 - 130
Dibenz(a,h)anthracene	340		3470	2400		ug/Kg	✱	69	56 - 130
Benzo[g,h,i]perylene	340		3470	2230		ug/Kg	✱	64	54 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	55		46 - 130
2-Fluorobiphenyl	59		58 - 130
Terphenyl-d14	63		60 - 130
Phenol-d5	57		49 - 130
2-Fluorophenol	51		40 - 130
2,4,6-Tribromophenol	57	X	58 - 130

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-83781-A-8-D MSD

Matrix: Solid

Analysis Batch: 253462

Client Sample ID: 680-83781-A-8-D MSD

Prep Type: Total/NA

Prep Batch: 253131

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzaldehyde	340		3450	989		ug/Kg	✱	29	10 - 130	6	50
Phenol	340		3450	1950		ug/Kg	✱	56	46 - 130	3	50
Bis(2-chloroethyl)ether	340		3450	2220		ug/Kg	✱	64	42 - 130	1	50
2-Chlorophenol	340		3450	2070		ug/Kg	✱	60	51 - 130	1	50
2-Methylphenol	340		3450	2990		ug/Kg	✱	87	49 - 130	0	50
bis (2-chloroisopropyl) ether	340		3450	2410		ug/Kg	✱	70	44 - 130	2	50
Acetophenone	340		3450	1860		ug/Kg	✱	54	42 - 130	0	50
3 & 4 Methylphenol	340		3450	1990		ug/Kg	✱	58	50 - 130	0	50
N-Nitrosodi-n-propylamine	340		3450	2140		ug/Kg	✱	62	48 - 130	4	50
Hexachloroethane	340		3450	2020		ug/Kg	✱	58	44 - 130	0	50
Nitrobenzene	340		3450	2080		ug/Kg	✱	60	43 - 130	4	50
Isophorone	340		3450	2110		ug/Kg	✱	61	48 - 130	2	50
2-Nitrophenol	340		3450	2080		ug/Kg	✱	60	45 - 130	6	50
2,4-Dimethylphenol	340		3450	1950		ug/Kg	✱	56	47 - 130	9	50
Bis(2-chloroethoxy)methane	340		3450	2210		ug/Kg	✱	64	56 - 130	1	50
2,4-Dichlorophenol	340		3450	2200		ug/Kg	✱	64	53 - 130	6	50
Naphthalene	340		3450	2080		ug/Kg	✱	60	54 - 130	2	50
4-Chloroaniline	680		3450	1880		ug/Kg	✱	55	36 - 130	6	50
Hexachlorobutadiene	340		3450	2330		ug/Kg	✱	68	47 - 130	4	50
Caprolactam	340		3450	1990		ug/Kg	✱	58	52 - 130	5	50
4-Chloro-3-methylphenol	340		3450	2300		ug/Kg	✱	67	52 - 130	5	50
2-Methylnaphthalene	340		3450	2110		ug/Kg	✱	61	55 - 130	1	50
Hexachlorocyclopentadiene	340		3450	1580		ug/Kg	✱	46	35 - 130	8	50
2,4,6-Trichlorophenol	340		3450	2290		ug/Kg	✱	66	53 - 130	6	50
2,4,5-Trichlorophenol	340		3450	2490		ug/Kg	✱	72	60 - 130	10	50
1,1'-Biphenyl	340		3450	2130		ug/Kg	✱	62	57 - 130	4	50
2-Chloronaphthalene	340		3450	2230		ug/Kg	✱	65	55 - 130	5	50
2-Nitroaniline	1800		3450	2590		ug/Kg	✱	75	52 - 130	8	50
Dimethyl phthalate	340		3450	2520		ug/Kg	✱	73	63 - 130	8	50
2,6-Dinitrotoluene	340		3450	2300		ug/Kg	✱	67	57 - 130	6	50
Acenaphthylene	340		3450	2390		ug/Kg	✱	69	58 - 130	6	50
3-Nitroaniline	1800		3450	2220		ug/Kg	✱	64	42 - 130	7	50
Acenaphthene	340		3450	2260		ug/Kg	✱	65	58 - 130	6	50
2,4-Dinitrophenol	1800		3450	1800	U	ug/Kg	✱	31	10 - 154	10	50
4-Nitrophenol	1800		3450	2550		ug/Kg	✱	74	30 - 130	9	50
Dibenzofuran	340		3450	2330		ug/Kg	✱	68	56 - 130	7	50
2,4-Dinitrotoluene	340		3450	2390		ug/Kg	✱	69	55 - 130	6	50
Diethyl phthalate	340		3450	2640		ug/Kg	✱	77	62 - 130	8	50
Fluorene	340		3450	2520		ug/Kg	✱	73	58 - 130	7	50
4-Chlorophenyl phenyl ether	340		3450	2530		ug/Kg	✱	73	61 - 130	10	50
4-Nitroaniline	1800		3450	2300		ug/Kg	✱	67	49 - 130	6	50
4,6-Dinitro-2-methylphenol	1800		3450	1800	U	ug/Kg	✱	46	14 - 137	4	50
N-Nitrosodiphenylamine	340		3450	2560		ug/Kg	✱	74	62 - 130	7	50
4-Bromophenyl phenyl ether	340		3450	2540		ug/Kg	✱	74	65 - 130	7	50
Hexachlorobenzene	340		3450	2370		ug/Kg	✱	69	59 - 130	5	50
Atrazine	340		3450	2600		ug/Kg	✱	76	54 - 141	9	50
Pentachlorophenol	1800		3450	1800	U	ug/Kg	✱	45	38 - 131	6	50
Phenanthrene	340		3450	2540		ug/Kg	✱	74	61 - 130	7	50
Anthracene	340		3450	2430		ug/Kg	✱	70	60 - 130	7	50

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-83781-A-8-D MSD

Matrix: Solid

Analysis Batch: 253462

Client Sample ID: 680-83781-A-8-D MSD

Prep Type: Total/NA

Prep Batch: 253131

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbazole	340		3450	2590		ug/Kg	✱	75	60 - 130	8	50
Di-n-butyl phthalate	340		3450	2660		ug/Kg	✱	77	65 - 130	5	50
Fluoranthene	340		3450	2560		ug/Kg	✱	74	62 - 130	7	50
Pyrene	340		3450	2690		ug/Kg	✱	78	59 - 130	10	50
Butyl benzyl phthalate	340		3450	2850		ug/Kg	✱	83	65 - 134	9	50
3,3'-Dichlorobenzidine	680		3450	1720		ug/Kg	✱	50	45 - 130	11	50
Benzo[a]anthracene	340		3450	2660		ug/Kg	✱	77	62 - 130	4	50
Chrysene	340		3450	2630		ug/Kg	✱	76	62 - 130	6	50
Bis(2-ethylhexyl) phthalate	340		3450	2880		ug/Kg	✱	84	62 - 132	5	50
Di-n-octyl phthalate	340		3450	2690		ug/Kg	✱	78	59 - 146	6	50
Benzo[b]fluoranthene	340		3450	2380		ug/Kg	✱	69	53 - 130	10	50
Benzo[k]fluoranthene	340		3450	2520		ug/Kg	✱	73	57 - 130	4	50
Benzo[a]pyrene	340		3450	2640		ug/Kg	✱	77	68 - 131	7	50
Indeno[1,2,3-cd]pyrene	340		3450	2350		ug/Kg	✱	68	52 - 130	12	50
Dibenz(a,h)anthracene	340		3450	2640		ug/Kg	✱	77	56 - 130	10	50
Benzo[g,h,i]perylene	340		3450	2510		ug/Kg	✱	73	54 - 130	12	50

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
Nitrobenzene-d5	58		46 - 130
2-Fluorobiphenyl	60		58 - 130
Terphenyl-d14	68		60 - 130
Phenol-d5	54		49 - 130
2-Fluorophenol	51		40 - 130
2,4,6-Tribromophenol	63		58 - 130

Lab Sample ID: MB 680-253887/21-A

Matrix: Solid

Analysis Batch: 254243

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Phenol	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Bis(2-chloroethyl)ether	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
2-Chlorophenol	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
2-Methylphenol	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
bis (2-chloroisopropyl) ether	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Acetophenone	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
3 & 4 Methylphenol	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
N-Nitrosodi-n-propylamine	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Hexachloroethane	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Nitrobenzene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Isophorone	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
2-Nitrophenol	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
2,4-Dimethylphenol	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Bis(2-chloroethoxy)methane	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
2,4-Dichlorophenol	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Naphthalene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
4-Chloroaniline	660	U	660		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Hexachlorobutadiene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-253887/21-A

Matrix: Solid

Analysis Batch: 254243

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
4-Chloro-3-methylphenol	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
2-Methylnaphthalene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Hexachlorocyclopentadiene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
2,4,6-Trichlorophenol	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
2,4,5-Trichlorophenol	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
1,1'-Biphenyl	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
2-Chloronaphthalene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
2-Nitroaniline	1700	U	1700		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Dimethyl phthalate	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
2,6-Dinitrotoluene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Acenaphthylene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
3-Nitroaniline	1700	U	1700		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Acenaphthene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
2,4-Dinitrophenol	1700	U	1700		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
4-Nitrophenol	1700	U	1700		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Dibenzofuran	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
2,4-Dinitrotoluene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Diethyl phthalate	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Fluorene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
4-Chlorophenyl phenyl ether	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
4-Nitroaniline	1700	U	1700		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
4,6-Dinitro-2-methylphenol	1700	U	1700		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
N-Nitrosodiphenylamine	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
4-Bromophenyl phenyl ether	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Hexachlorobenzene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Atrazine	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Pentachlorophenol	1700	U	1700		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Phenanthrene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Anthracene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Carbazole	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Di-n-butyl phthalate	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Fluoranthene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Pyrene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Butyl benzyl phthalate	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
3,3'-Dichlorobenzidine	660	U	660		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Benzo[a]anthracene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Chrysene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Bis(2-ethylhexyl) phthalate	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Di-n-octyl phthalate	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Benzo[b]fluoranthene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Benzo[k]fluoranthene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Benzo[a]pyrene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Indeno[1,2,3-cd]pyrene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Dibenz(a,h)anthracene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1
Benzo[g,h,i]perylene	330	U	330		ug/Kg		10/23/12 15:59	10/24/12 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		46 - 130	10/23/12 15:59	10/24/12 11:40	1

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-253887/21-A

Matrix: Solid

Analysis Batch: 254243

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253887

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		58 - 130	10/23/12 15:59	10/24/12 11:40	1
Terphenyl-d14	92		60 - 130	10/23/12 15:59	10/24/12 11:40	1
Phenol-d5	71		49 - 130	10/23/12 15:59	10/24/12 11:40	1
2-Fluorophenol	75		40 - 130	10/23/12 15:59	10/24/12 11:40	1
2,4,6-Tribromophenol	80		58 - 130	10/23/12 15:59	10/24/12 11:40	1

Lab Sample ID: LCS 680-253887/22-A

Matrix: Solid

Analysis Batch: 254243

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzaldehyde	3330	747		ug/Kg		22	10 - 130
Phenol	3330	2180		ug/Kg		65	46 - 130
Bis(2-chloroethyl)ether	3330	1630		ug/Kg		49	42 - 130
2-Chlorophenol	3330	2350		ug/Kg		70	51 - 130
2-Methylphenol	3330	2550		ug/Kg		77	49 - 130
bis (2-chloroisopropyl) ether	3330	1190	*	ug/Kg		36	44 - 130
Acetophenone	3330	2250		ug/Kg		67	42 - 130
3 & 4 Methylphenol	3330	2450		ug/Kg		73	50 - 130
N-Nitrosodi-n-propylamine	3330	2340		ug/Kg		70	48 - 130
Hexachloroethane	3330	2070		ug/Kg		62	44 - 130
Nitrobenzene	3330	2350		ug/Kg		70	43 - 130
Isophorone	3330	2370		ug/Kg		71	48 - 130
2-Nitrophenol	3330	2590		ug/Kg		78	45 - 130
2,4-Dimethylphenol	3330	2610		ug/Kg		78	47 - 130
Bis(2-chloroethoxy)methane	3330	2690		ug/Kg		81	56 - 130
2,4-Dichlorophenol	3330	2610		ug/Kg		78	53 - 130
Naphthalene	3330	2590		ug/Kg		78	54 - 130
4-Chloroaniline	3330	1790		ug/Kg		54	36 - 130
Hexachlorobutadiene	3330	2760		ug/Kg		83	47 - 130
Caprolactam	3330	2830		ug/Kg		85	52 - 130
4-Chloro-3-methylphenol	3330	2530		ug/Kg		76	52 - 130
2-Methylnaphthalene	3330	2750		ug/Kg		82	55 - 130
Hexachlorocyclopentadiene	3330	2980		ug/Kg		89	35 - 130
2,4,6-Trichlorophenol	3330	2910		ug/Kg		87	53 - 130
2,4,5-Trichlorophenol	3330	3060		ug/Kg		92	60 - 130
1,1'-Biphenyl	3330	2570		ug/Kg		77	57 - 130
2-Chloronaphthalene	3330	2640		ug/Kg		79	55 - 130
2-Nitroaniline	3330	2070		ug/Kg		62	52 - 130
Dimethyl phthalate	3330	2820		ug/Kg		85	63 - 130
2,6-Dinitrotoluene	3330	2900		ug/Kg		87	57 - 130
Acenaphthylene	3330	3020		ug/Kg		91	58 - 130
3-Nitroaniline	3330	2150		ug/Kg		65	42 - 130
Acenaphthene	3330	2830		ug/Kg		85	58 - 130
2,4-Dinitrophenol	3330	3120		ug/Kg		94	10 - 154
4-Nitrophenol	3330	2070		ug/Kg		62	30 - 130
Dibenzofuran	3330	2850		ug/Kg		86	56 - 130
2,4-Dinitrotoluene	3330	3060		ug/Kg		92	55 - 130
Diethyl phthalate	3330	2880		ug/Kg		86	62 - 130

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-253887/22-A

Matrix: Solid

Analysis Batch: 254243

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	3330	3120		ug/Kg		93	58 - 130
4-Chlorophenyl phenyl ether	3330	3000		ug/Kg		90	61 - 130
4-Nitroaniline	3330	2680		ug/Kg		80	49 - 130
4,6-Dinitro-2-methylphenol	3330	3090		ug/Kg		93	14 - 137
N-Nitrosodiphenylamine	3330	3110		ug/Kg		93	62 - 130
4-Bromophenyl phenyl ether	3330	3080		ug/Kg		92	65 - 130
Hexachlorobenzene	3330	2670		ug/Kg		80	59 - 130
Atrazine	3330	2520		ug/Kg		76	54 - 141
Pentachlorophenol	3330	3050		ug/Kg		91	38 - 131
Phenanthrene	3330	2810		ug/Kg		84	61 - 130
Anthracene	3330	2730		ug/Kg		82	60 - 130
Carbazole	3330	3010		ug/Kg		90	60 - 130
Di-n-butyl phthalate	3330	2830		ug/Kg		85	65 - 130
Fluoranthene	3330	2840		ug/Kg		85	62 - 130
Pyrene	3330	2450		ug/Kg		74	59 - 130
Butyl benzyl phthalate	3330	2580		ug/Kg		77	65 - 134
3,3'-Dichlorobenzidine	3330	1810		ug/Kg		54	45 - 130
Benzo[a]anthracene	3330	2870		ug/Kg		86	62 - 130
Chrysene	3330	2820		ug/Kg		85	62 - 130
Bis(2-ethylhexyl) phthalate	3330	2400		ug/Kg		72	62 - 132
Di-n-octyl phthalate	3330	2550		ug/Kg		77	59 - 146
Benzo[b]fluoranthene	3330	3120		ug/Kg		94	53 - 130
Benzo[k]fluoranthene	3330	3020		ug/Kg		91	57 - 130
Benzo[a]pyrene	3330	3120		ug/Kg		94	68 - 131
Indeno[1,2,3-cd]pyrene	3330	2870		ug/Kg		86	52 - 130
Dibenz(a,h)anthracene	3330	2960		ug/Kg		89	56 - 130
Benzo[g,h,i]perylene	3330	3000		ug/Kg		90	54 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	69		46 - 130
2-Fluorobiphenyl	84		58 - 130
Terphenyl-d14	76		60 - 130
Phenol-d5	65		49 - 130
2-Fluorophenol	68		40 - 130
2,4,6-Tribromophenol	75		58 - 130

Lab Sample ID: 680-83781-11 MS

Matrix: Solid

Analysis Batch: 254243

Client Sample ID: BAND-ALF-TP06-00

Prep Type: Total/NA

Prep Batch: 253887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzaldehyde	350	U	3550	1020		ug/Kg	☼	29	10 - 130
Phenol	350	U	3550	1920		ug/Kg	☼	54	46 - 130
Bis(2-chloroethyl)ether	350	U	3550	1430	F	ug/Kg	☼	40	42 - 130
2-Chlorophenol	350	U	3550	2120		ug/Kg	☼	60	51 - 130
2-Methylphenol	350	U	3550	2290		ug/Kg	☼	64	49 - 130
bis (2-chloroisopropyl) ether	350	U *	3550	1040	F	ug/Kg	☼	29	44 - 130
Acetophenone	350	U	3550	2010		ug/Kg	☼	57	42 - 130
3 & 4 Methylphenol	350	U	3550	2260		ug/Kg	☼	64	50 - 130

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-83781-11 MS

Matrix: Solid

Analysis Batch: 254243

Client Sample ID: BAND-ALF-TP06-00

Prep Type: Total/NA

Prep Batch: 253887

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits		
N-Nitrosodi-n-propylamine	350	U	3550	2080		ug/Kg	☼	59	48 - 130		
Hexachloroethane	350	U	3550	1830		ug/Kg	☼	52	44 - 130		
Nitrobenzene	350	U	3550	2090		ug/Kg	☼	59	43 - 130		
Isophorone	350	U	3550	2130		ug/Kg	☼	60	48 - 130		
2-Nitrophenol	350	U	3550	2300		ug/Kg	☼	65	45 - 130		
2,4-Dimethylphenol	350	U	3550	2230		ug/Kg	☼	63	47 - 130		
Bis(2-chloroethoxy)methane	350	U	3550	2360		ug/Kg	☼	67	56 - 130		
2,4-Dichlorophenol	350	U	3550	2380		ug/Kg	☼	67	53 - 130		
Naphthalene	350	U	3550	2320		ug/Kg	☼	65	54 - 130		
4-Chloroaniline	700	U	3550	1650		ug/Kg	☼	47	36 - 130		
Hexachlorobutadiene	350	U	3550	2320		ug/Kg	☼	65	47 - 130		
Caprolactam	350	U	3550	1800	F	ug/Kg	☼	51	52 - 130		
4-Chloro-3-methylphenol	350	U	3550	2330		ug/Kg	☼	66	52 - 130		
2-Methylnaphthalene	350	U	3550	2470		ug/Kg	☼	70	55 - 130		
Hexachlorocyclopentadiene	350	U	3550	2220		ug/Kg	☼	63	35 - 130		
2,4,6-Trichlorophenol	350	U	3550	2750		ug/Kg	☼	78	53 - 130		
2,4,5-Trichlorophenol	350	U	3550	2810		ug/Kg	☼	79	60 - 130		
1,1'-Biphenyl	350	U	3550	2350		ug/Kg	☼	66	57 - 130		
2-Chloronaphthalene	350	U	3550	2430		ug/Kg	☼	68	55 - 130		
2-Nitroaniline	1800	U	3550	1950		ug/Kg	☼	55	52 - 130		
Dimethyl phthalate	350	U	3550	2580		ug/Kg	☼	73	63 - 130		
2,6-Dinitrotoluene	350	U	3550	2750		ug/Kg	☼	78	57 - 130		
Acenaphthylene	350	U	3550	2750		ug/Kg	☼	77	58 - 130		
3-Nitroaniline	1800	U	3550	2040		ug/Kg	☼	57	42 - 130		
Acenaphthene	350	U	3550	2580		ug/Kg	☼	73	58 - 130		
2,4-Dinitrophenol	1800	U	3550	2330		ug/Kg	☼	65	10 - 154		
4-Nitrophenol	1800	U	3550	1860		ug/Kg	☼	52	30 - 130		
Dibenzofuran	350	U	3550	2620		ug/Kg	☼	74	56 - 130		
2,4-Dinitrotoluene	350	U	3550	2660		ug/Kg	☼	75	55 - 130		
Diethyl phthalate	350	U	3550	2590		ug/Kg	☼	73	62 - 130		
Fluorene	350	U	3550	2800		ug/Kg	☼	79	58 - 130		
4-Chlorophenyl phenyl ether	350	U	3550	2660		ug/Kg	☼	75	61 - 130		
4-Nitroaniline	1800	U	3550	2250		ug/Kg	☼	63	49 - 130		
4,6-Dinitro-2-methylphenol	1800	U	3550	2390		ug/Kg	☼	67	14 - 137		
N-Nitrosodiphenylamine	350	U	3550	2800		ug/Kg	☼	79	62 - 130		
4-Bromophenyl phenyl ether	350	U	3550	2890		ug/Kg	☼	81	65 - 130		
Hexachlorobenzene	350	U	3550	2390		ug/Kg	☼	67	59 - 130		
Atrazine	350	U	3550	2160		ug/Kg	☼	61	54 - 141		
Pentachlorophenol	1800	U	3550	2650		ug/Kg	☼	74	38 - 131		
Phenanthrene	350	U	3550	2470		ug/Kg	☼	70	61 - 130		
Anthracene	350	U	3550	2470		ug/Kg	☼	70	60 - 130		
Carbazole	350	U	3550	2660		ug/Kg	☼	75	60 - 130		
Di-n-butyl phthalate	350	U	3550	2510		ug/Kg	☼	71	65 - 130		
Fluoranthene	350	U	3550	2500		ug/Kg	☼	70	62 - 130		
Pyrene	350	U	3550	2340		ug/Kg	☼	66	59 - 130		
Butyl benzyl phthalate	350	U	3550	2440		ug/Kg	☼	69	65 - 134		
3,3'-Dichlorobenzidine	700	U	3550	1380	F	ug/Kg	☼	39	45 - 130		
Benzo[a]anthracene	350	U	3550	2770		ug/Kg	☼	78	62 - 130		
Chrysene	350	U	3550	2660		ug/Kg	☼	75	62 - 130		
Bis(2-ethylhexyl) phthalate	350	U	3550	2340		ug/Kg	☼	66	62 - 132		

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-83781-11 MS

Matrix: Solid

Analysis Batch: 254243

Client Sample ID: BAND-ALF-TP06-00

Prep Type: Total/NA

Prep Batch: 253887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate	350	U	3550	2480		ug/Kg	✱	70	59 - 146
Benzo[b]fluoranthene	350	U	3550	2960		ug/Kg	✱	83	53 - 130
Benzo[k]fluoranthene	350	U	3550	2690		ug/Kg	✱	76	57 - 130
Benzo[a]pyrene	350	U	3550	2830		ug/Kg	✱	80	68 - 131
Indeno[1,2,3-cd]pyrene	350	U	3550	2660		ug/Kg	✱	75	52 - 130
Dibenz(a,h)anthracene	350	U	3550	2640		ug/Kg	✱	74	56 - 130
Benzo[g,h,i]perylene	350	U	3550	2630		ug/Kg	✱	74	54 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	56		46 - 130
2-Fluorobiphenyl	73		58 - 130
Terphenyl-d14	66		60 - 130
Phenol-d5	54		49 - 130
2-Fluorophenol	56		40 - 130
2,4,6-Tribromophenol	63		58 - 130

Lab Sample ID: 680-83781-11 MSD

Matrix: Solid

Analysis Batch: 254243

Client Sample ID: BAND-ALF-TP06-00

Prep Type: Total/NA

Prep Batch: 253887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzaldehyde	350	U	3580	919		ug/Kg	✱	26	10 - 130	11	50
Phenol	350	U	3580	1720		ug/Kg	✱	48	46 - 130	11	50
Bis(2-chloroethyl)ether	350	U	3580	1170	F	ug/Kg	✱	33	42 - 130	20	50
2-Chlorophenol	350	U	3580	1780	F	ug/Kg	✱	50	51 - 130	18	50
2-Methylphenol	350	U	3580	2020		ug/Kg	✱	56	49 - 130	13	50
bis (2-chloroisopropyl) ether	350	U *	3580	893	F	ug/Kg	✱	25	44 - 130	16	50
Acetophenone	350	U	3580	1610		ug/Kg	✱	45	42 - 130	22	50
3 & 4 Methylphenol	350	U	3580	1950		ug/Kg	✱	55	50 - 130	15	50
N-Nitrosodi-n-propylamine	350	U	3580	1830		ug/Kg	✱	51	48 - 130	13	50
Hexachloroethane	350	U	3580	1490	F	ug/Kg	✱	42	44 - 130	21	50
Nitrobenzene	350	U	3580	1680		ug/Kg	✱	47	43 - 130	22	50
Isophorone	350	U	3580	1770		ug/Kg	✱	50	48 - 130	18	50
2-Nitrophenol	350	U	3580	1900		ug/Kg	✱	53	45 - 130	19	50
2,4-Dimethylphenol	350	U	3580	1960		ug/Kg	✱	55	47 - 130	13	50
Bis(2-chloroethoxy)methane	350	U	3580	2000		ug/Kg	✱	56	56 - 130	17	50
2,4-Dichlorophenol	350	U	3580	2100		ug/Kg	✱	59	53 - 130	12	50
Naphthalene	350	U	3580	1860	F	ug/Kg	✱	52	54 - 130	22	50
4-Chloroaniline	700	U	3580	1870		ug/Kg	✱	52	36 - 130	12	50
Hexachlorobutadiene	350	U	3580	1980		ug/Kg	✱	55	47 - 130	16	50
Caprolactam	350	U	3580	2500		ug/Kg	✱	70	52 - 130	33	50
4-Chloro-3-methylphenol	350	U	3580	2280		ug/Kg	✱	64	52 - 130	2	50
2-Methylnaphthalene	350	U	3580	2100		ug/Kg	✱	59	55 - 130	16	50
Hexachlorocyclopentadiene	350	U	3580	1570		ug/Kg	✱	44	35 - 130	34	50
2,4,6-Trichlorophenol	350	U	3580	2530		ug/Kg	✱	71	53 - 130	8	50
2,4,5-Trichlorophenol	350	U	3580	2760		ug/Kg	✱	77	60 - 130	2	50
1,1'-Biphenyl	350	U	3580	1980	F	ug/Kg	✱	55	57 - 130	17	50
2-Chloronaphthalene	350	U	3580	2050		ug/Kg	✱	57	55 - 130	17	50
2-Nitroaniline	1800	U	3580	1910		ug/Kg	✱	53	52 - 130	2	50

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-83781-11 MSD

Matrix: Solid

Analysis Batch: 254243

Client Sample ID: BAND-ALF-TP06-00

Prep Type: Total/NA

Prep Batch: 253887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dimethyl phthalate	350	U	3580	2460		ug/Kg	✱	69	63 - 130	5	50
2,6-Dinitrotoluene	350	U	3580	2710		ug/Kg	✱	76	57 - 130	2	50
Acenaphthylene	350	U	3580	2450		ug/Kg	✱	69	58 - 130	11	50
3-Nitroaniline	1800	U	3580	2440		ug/Kg	✱	68	42 - 130	18	50
Acenaphthene	350	U	3580	2340		ug/Kg	✱	66	58 - 130	10	50
2,4-Dinitrophenol	1800	U	3580	2590		ug/Kg	✱	72	10 - 154	11	50
4-Nitrophenol	1800	U	3580	2050		ug/Kg	✱	57	30 - 130	10	50
Dibenzofuran	350	U	3580	2400		ug/Kg	✱	67	56 - 130	9	50
2,4-Dinitrotoluene	350	U	3580	2770		ug/Kg	✱	77	55 - 130	4	50
Diethyl phthalate	350	U	3580	2570		ug/Kg	✱	72	62 - 130	1	50
Fluorene	350	U	3580	2670		ug/Kg	✱	75	58 - 130	5	50
4-Chlorophenyl phenyl ether	350	U	3580	2580		ug/Kg	✱	72	61 - 130	3	50
4-Nitroaniline	1800	U	3580	2430		ug/Kg	✱	68	49 - 130	7	50
4,6-Dinitro-2-methylphenol	1800	U	3580	2410		ug/Kg	✱	67	14 - 137	1	50
N-Nitrosodiphenylamine	350	U	3580	2790		ug/Kg	✱	78	62 - 130	1	50
4-Bromophenyl phenyl ether	350	U	3580	2790		ug/Kg	✱	78	65 - 130	3	50
Hexachlorobenzene	350	U	3580	2370		ug/Kg	✱	66	59 - 130	1	50
Atrazine	350	U	3580	2410		ug/Kg	✱	67	54 - 141	11	50
Pentachlorophenol	1800	U	3580	2850		ug/Kg	✱	80	38 - 131	8	50
Phenanthrene	350	U	3580	2540		ug/Kg	✱	71	61 - 130	3	50
Anthracene	350	U	3580	2450		ug/Kg	✱	69	60 - 130	1	50
Carbazole	350	U	3580	2850		ug/Kg	✱	80	60 - 130	7	50
Di-n-butyl phthalate	350	U	3580	2650		ug/Kg	✱	74	65 - 130	5	50
Fluoranthene	350	U	3580	2690		ug/Kg	✱	75	62 - 130	8	50
Pyrene	350	U	3580	2270		ug/Kg	✱	64	59 - 130	3	50
Butyl benzyl phthalate	350	U	3580	2270	F	ug/Kg	✱	64	65 - 134	7	50
3,3'-Dichlorobenzidine	700	U	3580	1170	F	ug/Kg	✱	33	45 - 130	17	50
Benzo[a]anthracene	350	U	3580	2670		ug/Kg	✱	75	62 - 130	4	50
Chrysene	350	U	3580	2670		ug/Kg	✱	75	62 - 130	0	50
Bis(2-ethylhexyl) phthalate	350	U	3580	2280		ug/Kg	✱	64	62 - 132	3	50
Di-n-octyl phthalate	350	U	3580	2370		ug/Kg	✱	66	59 - 146	5	50
Benzo[b]fluoranthene	350	U	3580	2810		ug/Kg	✱	78	53 - 130	5	50
Benzo[k]fluoranthene	350	U	3580	2680		ug/Kg	✱	75	57 - 130	0	50
Benzo[a]pyrene	350	U	3580	2850		ug/Kg	✱	80	68 - 131	1	50
Indeno[1,2,3-cd]pyrene	350	U	3580	2450		ug/Kg	✱	69	52 - 130	8	50
Dibenz(a,h)anthracene	350	U	3580	2630		ug/Kg	✱	74	56 - 130	0	50
Benzo[g,h,i]perylene	350	U	3580	2640		ug/Kg	✱	74	54 - 130	0	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5	44	X	46 - 130
2-Fluorobiphenyl	59		58 - 130
Terphenyl-d14	63		60 - 130
Phenol-d5	47	X	49 - 130
2-Fluorophenol	48		40 - 130
2,4,6-Tribromophenol	70		58 - 130

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 680-253075/3

Matrix: Solid

Analysis Batch: 253075

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.25	U	0.25		mg/Kg			10/15/12 12:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		70 - 131					10/15/12 12:27	1

Lab Sample ID: LCS 680-253075/4

Matrix: Solid

Analysis Batch: 253075

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO) -C6-C10		1.00	1.01		mg/Kg		101	64 - 133	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	101		70 - 131						

Lab Sample ID: LCSD 680-253075/5

Matrix: Solid

Analysis Batch: 253075

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10		1.00	0.899		mg/Kg		90	64 - 133	12	50
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
a,a,a-Trifluorotoluene	101		70 - 131							

Lab Sample ID: MB 680-253520/3

Matrix: Solid

Analysis Batch: 253520

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.25	U	0.25		mg/Kg			10/18/12 12:20	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		70 - 131					10/18/12 12:20	1

Lab Sample ID: LCS 680-253520/4

Matrix: Solid

Analysis Batch: 253520

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO) -C6-C10		1.00	0.905		mg/Kg		90	64 - 133	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	99		70 - 131						

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 680-253520/12

Matrix: Solid

Analysis Batch: 253520

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	1.00	1.00		mg/Kg		100	64 - 133	10	50
Surrogate	%Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	104		70 - 131						

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 680-253036/15-A

Matrix: Solid

Analysis Batch: 253775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.3	U	3.3		mg/Kg		10/17/12 09:07	10/18/12 13:26	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	76		56 - 135				10/17/12 09:07	10/18/12 13:26	1

Lab Sample ID: LCS 680-253036/16-A

Matrix: Solid

Analysis Batch: 253775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28	33.1	25.0		mg/Kg		75	19 - 171		
Surrogate	%Recovery	LCS Qualifier	Limits						
o-Terphenyl	82		56 - 135						

Lab Sample ID: 680-83781-10 MS

Matrix: Solid

Analysis Batch: 253781

Client Sample ID: BAND-ALF-TP05-00

Prep Type: Total/NA

Prep Batch: 253036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28	6.6		35.5	37.7		mg/Kg	✱	87	19 - 171		
Surrogate	%Recovery	MS Qualifier	Limits								
o-Terphenyl	80		56 - 135								

Lab Sample ID: 680-83781-10 MSD

Matrix: Solid

Analysis Batch: 253781

Client Sample ID: BAND-ALF-TP05-00

Prep Type: Total/NA

Prep Batch: 253036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	6.6		36.0	41.6		mg/Kg	✱	97	19 - 171	10	50
Surrogate	%Recovery	MSD Qualifier	Limits								
o-Terphenyl	86		56 - 135								

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-252902/1-A

Matrix: Solid

Analysis Batch: 253839

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 252902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.0	U	1.0		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Aluminum	20	U	20		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Arsenic	2.0	U	2.0		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Barium	1.0	U	1.0		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Beryllium	0.40	U	0.40		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Calcium	50	U	50		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Cadmium	0.50	U	0.50		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Cobalt	1.0	U	1.0		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Chromium	1.0	U	1.0		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Copper	2.5	U	2.5		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Iron	20	U	20		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Potassium	100	U	100		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Magnesium	50	U	50		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Manganese	1.0	U	1.0		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Sodium	200	U	200		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Nickel	4.0	U	4.0		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Lead	1.0	U	1.0		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Antimony	2.0	U	2.0		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Selenium	2.5	U	2.5		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Thallium	2.5	U	2.5		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Vanadium	1.0	U	1.0		mg/Kg		10/15/12 13:01	10/23/12 05:11	1
Zinc	2.0	U	2.0		mg/Kg		10/15/12 13:01	10/23/12 05:11	1

Lab Sample ID: LCS 680-252902/2-A

Matrix: Solid

Analysis Batch: 253839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 252902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	5.16		mg/Kg		103	75 - 125
Aluminum	500	489		mg/Kg		98	75 - 125
Arsenic	10.0	8.88		mg/Kg		89	75 - 125
Barium	10.0	10.2		mg/Kg		102	75 - 125
Beryllium	5.00	5.29		mg/Kg		106	75 - 125
Calcium	500	528		mg/Kg		106	75 - 125
Cadmium	5.00	5.02		mg/Kg		100	75 - 125
Cobalt	5.00	4.98		mg/Kg		100	75 - 125
Chromium	10.0	10.6		mg/Kg		106	75 - 125
Copper	10.0	10.4		mg/Kg		104	75 - 125
Iron	500	511		mg/Kg		102	75 - 125
Potassium	500	471		mg/Kg		94	75 - 125
Magnesium	500	505		mg/Kg		101	75 - 125
Manganese	50.0	54.1		mg/Kg		108	75 - 125
Sodium	500	455		mg/Kg		91	75 - 125
Nickel	10.0	10.1		mg/Kg		101	75 - 125
Lead	5.00	4.98		mg/Kg		100	75 - 125
Antimony	5.00	4.58		mg/Kg		92	75 - 125
Selenium	10.0	9.96		mg/Kg		100	75 - 125
Thallium	4.00	3.91		mg/Kg		98	75 - 125
Vanadium	10.0	10.2		mg/Kg		102	75 - 125
Zinc	10.0	10.1		mg/Kg		101	75 - 125

QC Sample Results

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 680-253018/1-A
Matrix: Solid
Analysis Batch: 253307

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253018

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020		mg/Kg		10/16/12 10:34	10/17/12 21:15	1

Lab Sample ID: LCS 680-253018/2-A
Matrix: Solid
Analysis Batch: 253307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253018

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.245	0.282		mg/Kg		115	80 - 120

QC Association Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

GC/MS VOA

Prep Batch: 252887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-1	BAND-DS-SB01-00	Total/NA	Solid	5035	
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	5035	
680-83781-3	BAND-DS-SB03-03	Total/NA	Solid	5035	
680-83781-4	BAND-DS-SB04-00	Total/NA	Solid	5035	
680-83781-5	BAND-DS-SB05-00	Total/NA	Solid	5035	
680-83781-6	BAND-ALF-TP01-00	Total/NA	Solid	5035	
680-83781-7	BAND-ALF-TP02-00	Total/NA	Solid	5035	
680-83781-8	BAND-ALF-TP03-00	Total/NA	Solid	5035	
680-83781-9	BAND-ALF-TP04-00	Total/NA	Solid	5035	
680-83781-10	BAND-ALF-TP05-00	Total/NA	Solid	5035	
680-83781-11	BAND-ALF-TP06-00	Total/NA	Solid	5035	
680-83781-12	BAND-ALF-TP01-00D	Total/NA	Solid	5035	

Analysis Batch: 253368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-13	BAND-TB01	Total/NA	Water	8260B	
LCS 680-253368/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-253368/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-253368/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 253649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-1	BAND-DS-SB01-00	Total/NA	Solid	8260B	252887
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	8260B	252887
680-83781-3	BAND-DS-SB03-03	Total/NA	Solid	8260B	252887
680-83781-4	BAND-DS-SB04-00	Total/NA	Solid	8260B	252887
680-83781-5	BAND-DS-SB05-00	Total/NA	Solid	8260B	252887
680-83781-6	BAND-ALF-TP01-00	Total/NA	Solid	8260B	252887
680-83781-7	BAND-ALF-TP02-00	Total/NA	Solid	8260B	252887
680-83781-8	BAND-ALF-TP03-00	Total/NA	Solid	8260B	252887
680-83781-9	BAND-ALF-TP04-00	Total/NA	Solid	8260B	252887
680-83781-10	BAND-ALF-TP05-00	Total/NA	Solid	8260B	252887
680-83781-11	BAND-ALF-TP06-00	Total/NA	Solid	8260B	252887
680-83781-12	BAND-ALF-TP01-00D	Total/NA	Solid	8260B	252887
LCS 680-253649/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 680-253649/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 680-253649/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 253131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-4	BAND-DS-SB04-00	Total/NA	Solid	3546	
680-83781-10	BAND-ALF-TP05-00	Total/NA	Solid	3546	
680-83781-A-8-C MS	680-83781-A-8-C MS	Total/NA	Solid	3546	
680-83781-A-8-D MSD	680-83781-A-8-D MSD	Total/NA	Solid	3546	
LCS 680-253131/14-A	Lab Control Sample	Total/NA	Solid	3546	
MB 680-253131/13-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 253462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-A-8-C MS	680-83781-A-8-C MS	Total/NA	Solid	8270C	253131

QC Association Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

GC/MS Semi VOA (Continued)

Analysis Batch: 253462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-A-8-D MSD	680-83781-A-8-D MSD	Total/NA	Solid	8270C	253131
LCS 680-253131/14-A	Lab Control Sample	Total/NA	Solid	8270C	253131
MB 680-253131/13-A	Method Blank	Total/NA	Solid	8270C	253131

Prep Batch: 253887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-1	BAND-DS-SB01-00	Total/NA	Solid	3546	
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	3546	
680-83781-3	BAND-DS-SB03-03	Total/NA	Solid	3546	
680-83781-4 - RE	BAND-DS-SB04-00	Total/NA	Solid	3546	
680-83781-5	BAND-DS-SB05-00	Total/NA	Solid	3546	
680-83781-6	BAND-ALF-TP01-00	Total/NA	Solid	3546	
680-83781-7	BAND-ALF-TP02-00	Total/NA	Solid	3546	
680-83781-8	BAND-ALF-TP03-00	Total/NA	Solid	3546	
680-83781-9	BAND-ALF-TP04-00	Total/NA	Solid	3546	
680-83781-10 - RE	BAND-ALF-TP05-00	Total/NA	Solid	3546	
680-83781-11	BAND-ALF-TP06-00	Total/NA	Solid	3546	
680-83781-11 MS	BAND-ALF-TP06-00	Total/NA	Solid	3546	
680-83781-11 MSD	BAND-ALF-TP06-00	Total/NA	Solid	3546	
680-83781-12	BAND-ALF-TP01-00D	Total/NA	Solid	3546	
LCS 680-253887/22-A	Lab Control Sample	Total/NA	Solid	3546	
MB 680-253887/21-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 254167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-4 - RE	BAND-DS-SB04-00	Total/NA	Solid	8270C	253887
680-83781-5	BAND-DS-SB05-00	Total/NA	Solid	8270C	253887
680-83781-6	BAND-ALF-TP01-00	Total/NA	Solid	8270C	253887
680-83781-7	BAND-ALF-TP02-00	Total/NA	Solid	8270C	253887
680-83781-8	BAND-ALF-TP03-00	Total/NA	Solid	8270C	253887
680-83781-9	BAND-ALF-TP04-00	Total/NA	Solid	8270C	253887
680-83781-10 - RE	BAND-ALF-TP05-00	Total/NA	Solid	8270C	253887

Analysis Batch: 254175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-10	BAND-ALF-TP05-00	Total/NA	Solid	8270C	253131
680-83781-12	BAND-ALF-TP01-00D	Total/NA	Solid	8270C	253887

Analysis Batch: 254243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-1	BAND-DS-SB01-00	Total/NA	Solid	8270C	253887
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	8270C	253887
680-83781-3	BAND-DS-SB03-03	Total/NA	Solid	8270C	253887
680-83781-11	BAND-ALF-TP06-00	Total/NA	Solid	8270C	253887
680-83781-11 MS	BAND-ALF-TP06-00	Total/NA	Solid	8270C	253887
680-83781-11 MSD	BAND-ALF-TP06-00	Total/NA	Solid	8270C	253887
LCS 680-253887/22-A	Lab Control Sample	Total/NA	Solid	8270C	253887
MB 680-253887/21-A	Method Blank	Total/NA	Solid	8270C	253887

Analysis Batch: 254351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-4	BAND-DS-SB04-00	Total/NA	Solid	8270C	253131

QC Association Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

GC VOA

Prep Batch: 252860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-1	BAND-DS-SB01-00	Total/NA	Solid	5035	
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	5035	
680-83781-3	BAND-DS-SB03-03	Total/NA	Solid	5035	
680-83781-4	BAND-DS-SB04-00	Total/NA	Solid	5035	
680-83781-5	BAND-DS-SB05-00	Total/NA	Solid	5035	
680-83781-6	BAND-ALF-TP01-00	Total/NA	Solid	5035	
680-83781-7	BAND-ALF-TP02-00	Total/NA	Solid	5035	
680-83781-8	BAND-ALF-TP03-00	Total/NA	Solid	5035	
680-83781-9	BAND-ALF-TP04-00	Total/NA	Solid	5035	
680-83781-10	BAND-ALF-TP05-00	Total/NA	Solid	5035	
680-83781-11	BAND-ALF-TP06-00	Total/NA	Solid	5035	
680-83781-12	BAND-ALF-TP01-00D	Total/NA	Solid	5035	

Analysis Batch: 253075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-1	BAND-DS-SB01-00	Total/NA	Solid	8015B	252860
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	8015B	252860
680-83781-3	BAND-DS-SB03-03	Total/NA	Solid	8015B	252860
680-83781-4	BAND-DS-SB04-00	Total/NA	Solid	8015B	252860
680-83781-6	BAND-ALF-TP01-00	Total/NA	Solid	8015B	252860
680-83781-7	BAND-ALF-TP02-00	Total/NA	Solid	8015B	252860
680-83781-8	BAND-ALF-TP03-00	Total/NA	Solid	8015B	252860
680-83781-9	BAND-ALF-TP04-00	Total/NA	Solid	8015B	252860
680-83781-10	BAND-ALF-TP05-00	Total/NA	Solid	8015B	252860
680-83781-11	BAND-ALF-TP06-00	Total/NA	Solid	8015B	252860
680-83781-12	BAND-ALF-TP01-00D	Total/NA	Solid	8015B	252860
LCS 680-253075/4	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 680-253075/5	Lab Control Sample Dup	Total/NA	Solid	8015B	
MB 680-253075/3	Method Blank	Total/NA	Solid	8015B	

Analysis Batch: 253520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-5	BAND-DS-SB05-00	Total/NA	Solid	8015B	252860
LCS 680-253520/4	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 680-253520/12	Lab Control Sample Dup	Total/NA	Solid	8015B	
MB 680-253520/3	Method Blank	Total/NA	Solid	8015B	

GC Semi VOA

Prep Batch: 253036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-1	BAND-DS-SB01-00	Total/NA	Solid	3546	
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	3546	
680-83781-3	BAND-DS-SB03-03	Total/NA	Solid	3546	
680-83781-4	BAND-DS-SB04-00	Total/NA	Solid	3546	
680-83781-5	BAND-DS-SB05-00	Total/NA	Solid	3546	
680-83781-6	BAND-ALF-TP01-00	Total/NA	Solid	3546	
680-83781-7	BAND-ALF-TP02-00	Total/NA	Solid	3546	
680-83781-8	BAND-ALF-TP03-00	Total/NA	Solid	3546	
680-83781-9	BAND-ALF-TP04-00	Total/NA	Solid	3546	
680-83781-10	BAND-ALF-TP05-00	Total/NA	Solid	3546	
680-83781-10 MS	BAND-ALF-TP05-00	Total/NA	Solid	3546	

QC Association Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

GC Semi VOA (Continued)

Prep Batch: 253036 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-10 MSD	BAND-ALF-TP05-00	Total/NA	Solid	3546	
680-83781-11	BAND-ALF-TP06-00	Total/NA	Solid	3546	
680-83781-12	BAND-ALF-TP01-00D	Total/NA	Solid	3546	
LCS 680-253036/16-A	Lab Control Sample	Total/NA	Solid	3546	
MB 680-253036/15-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 253775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-253036/16-A	Lab Control Sample	Total/NA	Solid	8015B	253036
MB 680-253036/15-A	Method Blank	Total/NA	Solid	8015B	253036

Analysis Batch: 253781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-1	BAND-DS-SB01-00	Total/NA	Solid	8015B	253036
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	8015B	253036
680-83781-3	BAND-DS-SB03-03	Total/NA	Solid	8015B	253036
680-83781-4	BAND-DS-SB04-00	Total/NA	Solid	8015B	253036
680-83781-5	BAND-DS-SB05-00	Total/NA	Solid	8015B	253036
680-83781-6	BAND-ALF-TP01-00	Total/NA	Solid	8015B	253036
680-83781-7	BAND-ALF-TP02-00	Total/NA	Solid	8015B	253036
680-83781-8	BAND-ALF-TP03-00	Total/NA	Solid	8015B	253036
680-83781-9	BAND-ALF-TP04-00	Total/NA	Solid	8015B	253036
680-83781-10	BAND-ALF-TP05-00	Total/NA	Solid	8015B	253036
680-83781-10 MS	BAND-ALF-TP05-00	Total/NA	Solid	8015B	253036
680-83781-10 MSD	BAND-ALF-TP05-00	Total/NA	Solid	8015B	253036
680-83781-11	BAND-ALF-TP06-00	Total/NA	Solid	8015B	253036
680-83781-12	BAND-ALF-TP01-00D	Total/NA	Solid	8015B	253036

Metals

Prep Batch: 252902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-1	BAND-DS-SB01-00	Total/NA	Solid	3050B	
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	3050B	
680-83781-3	BAND-DS-SB03-03	Total/NA	Solid	3050B	
680-83781-4	BAND-DS-SB04-00	Total/NA	Solid	3050B	
680-83781-5	BAND-DS-SB05-00	Total/NA	Solid	3050B	
680-83781-6	BAND-ALF-TP01-00	Total/NA	Solid	3050B	
680-83781-7	BAND-ALF-TP02-00	Total/NA	Solid	3050B	
680-83781-8	BAND-ALF-TP03-00	Total/NA	Solid	3050B	
680-83781-9	BAND-ALF-TP04-00	Total/NA	Solid	3050B	
680-83781-10	BAND-ALF-TP05-00	Total/NA	Solid	3050B	
680-83781-11	BAND-ALF-TP06-00	Total/NA	Solid	3050B	
680-83781-12	BAND-ALF-TP01-00D	Total/NA	Solid	3050B	
LCS 680-252902/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-252902/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 253018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-1	BAND-DS-SB01-00	Total/NA	Solid	7471A	
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	7471A	
680-83781-3	BAND-DS-SB03-03	Total/NA	Solid	7471A	

QC Association Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Metals (Continued)

Prep Batch: 253018 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-4	BAND-DS-SB04-00	Total/NA	Solid	7471A	
680-83781-5	BAND-DS-SB05-00	Total/NA	Solid	7471A	
680-83781-6	BAND-ALF-TP01-00	Total/NA	Solid	7471A	
680-83781-7	BAND-ALF-TP02-00	Total/NA	Solid	7471A	
680-83781-8	BAND-ALF-TP03-00	Total/NA	Solid	7471A	
680-83781-9	BAND-ALF-TP04-00	Total/NA	Solid	7471A	
680-83781-10	BAND-ALF-TP05-00	Total/NA	Solid	7471A	
680-83781-11	BAND-ALF-TP06-00	Total/NA	Solid	7471A	
680-83781-12	BAND-ALF-TP01-00D	Total/NA	Solid	7471A	
LCS 680-253018/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 680-253018/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 253307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-1	BAND-DS-SB01-00	Total/NA	Solid	7471A	253018
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	7471A	253018
680-83781-3	BAND-DS-SB03-03	Total/NA	Solid	7471A	253018
680-83781-4	BAND-DS-SB04-00	Total/NA	Solid	7471A	253018
680-83781-5	BAND-DS-SB05-00	Total/NA	Solid	7471A	253018
680-83781-6	BAND-ALF-TP01-00	Total/NA	Solid	7471A	253018
680-83781-7	BAND-ALF-TP02-00	Total/NA	Solid	7471A	253018
680-83781-8	BAND-ALF-TP03-00	Total/NA	Solid	7471A	253018
680-83781-9	BAND-ALF-TP04-00	Total/NA	Solid	7471A	253018
680-83781-10	BAND-ALF-TP05-00	Total/NA	Solid	7471A	253018
680-83781-11	BAND-ALF-TP06-00	Total/NA	Solid	7471A	253018
680-83781-12	BAND-ALF-TP01-00D	Total/NA	Solid	7471A	253018
LCS 680-253018/2-A	Lab Control Sample	Total/NA	Solid	7471A	253018
MB 680-253018/1-A	Method Blank	Total/NA	Solid	7471A	253018

Analysis Batch: 253839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-1	BAND-DS-SB01-00	Total/NA	Solid	6010B	252902
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	6010B	252902
680-83781-3	BAND-DS-SB03-03	Total/NA	Solid	6010B	252902
680-83781-4	BAND-DS-SB04-00	Total/NA	Solid	6010B	252902
680-83781-5	BAND-DS-SB05-00	Total/NA	Solid	6010B	252902
680-83781-6	BAND-ALF-TP01-00	Total/NA	Solid	6010B	252902
680-83781-7	BAND-ALF-TP02-00	Total/NA	Solid	6010B	252902
680-83781-8	BAND-ALF-TP03-00	Total/NA	Solid	6010B	252902
680-83781-9	BAND-ALF-TP04-00	Total/NA	Solid	6010B	252902
680-83781-10	BAND-ALF-TP05-00	Total/NA	Solid	6010B	252902
680-83781-11	BAND-ALF-TP06-00	Total/NA	Solid	6010B	252902
680-83781-12	BAND-ALF-TP01-00D	Total/NA	Solid	6010B	252902
LCS 680-252902/2-A	Lab Control Sample	Total/NA	Solid	6010B	252902
MB 680-252902/1-A	Method Blank	Total/NA	Solid	6010B	252902

Analysis Batch: 254102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	6010B	252902

QC Association Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

General Chemistry

Analysis Batch: 252822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-83781-1	BAND-DS-SB01-00	Total/NA	Solid	Moisture	
680-83781-2	BAND-DS-SB02-00	Total/NA	Solid	Moisture	
680-83781-3	BAND-DS-SB03-03	Total/NA	Solid	Moisture	
680-83781-4	BAND-DS-SB04-00	Total/NA	Solid	Moisture	
680-83781-5	BAND-DS-SB05-00	Total/NA	Solid	Moisture	
680-83781-6	BAND-ALF-TP01-00	Total/NA	Solid	Moisture	
680-83781-7	BAND-ALF-TP02-00	Total/NA	Solid	Moisture	
680-83781-8	BAND-ALF-TP03-00	Total/NA	Solid	Moisture	
680-83781-9	BAND-ALF-TP04-00	Total/NA	Solid	Moisture	
680-83781-10	BAND-ALF-TP05-00	Total/NA	Solid	Moisture	
680-83781-11	BAND-ALF-TP06-00	Total/NA	Solid	Moisture	
680-83781-12	BAND-ALF-TP01-00D	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB01-00

Date Collected: 10/11/12 09:30

Date Received: 10/13/12 11:01

Lab Sample ID: 680-83781-1

Matrix: Solid

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.72 g	5 mL	252887	10/15/12 12:28	FS	TAL SAV
Total/NA	Analysis	8260B		1			253649	10/20/12 16:29	RB	TAL SAV
Total/NA	Prep	3546			30.49 g	1 mL	253887	10/23/12 15:59	AJW	TAL SAV
Total/NA	Analysis	8270C		1			254243	10/24/12 14:53	BB	TAL SAV
Total/NA	Prep	5035			4.256 g	5 mL	252860	10/15/12 10:21	FS	TAL SAV
Total/NA	Analysis	8015B		1			253075	10/15/12 13:30	SMC	TAL SAV
Total/NA	Prep	3546			30.27 g	1 mL	253036	10/17/12 09:07	MAV	TAL SAV
Total/NA	Analysis	8015B		1			253781	10/19/12 00:33	JK	TAL SAV
Total/NA	Prep	7471A			0.50 g	50 mL	253018	10/16/12 10:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			253307	10/17/12 21:46	UU	TAL SAV
Total/NA	Prep	3050B			1.04 g	100 mL	252902	10/15/12 13:01	RAM	TAL SAV
Total/NA	Analysis	6010B		1			253839	10/23/12 06:20	BCB	TAL SAV
Total/NA	Analysis	Moisture		1			252822	10/14/12 16:24	FS	TAL SAV

Client Sample ID: BAND-DS-SB02-00

Date Collected: 10/11/12 10:00

Date Received: 10/13/12 11:01

Lab Sample ID: 680-83781-2

Matrix: Solid

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.24 g	5 mL	252887	10/15/12 12:28	FS	TAL SAV
Total/NA	Analysis	8260B		1			253649	10/20/12 16:52	RB	TAL SAV
Total/NA	Prep	3546			30.14 g	1 mL	253887	10/23/12 15:59	AJW	TAL SAV
Total/NA	Analysis	8270C		1			254243	10/24/12 15:30	BB	TAL SAV
Total/NA	Prep	5035			4.456 g	5 mL	252860	10/15/12 10:21	FS	TAL SAV
Total/NA	Analysis	8015B		1			253075	10/15/12 13:49	SMC	TAL SAV
Total/NA	Prep	3546			30.32 g	1 mL	253036	10/17/12 09:07	MAV	TAL SAV
Total/NA	Analysis	8015B		1			253781	10/19/12 00:48	JK	TAL SAV
Total/NA	Prep	7471A			0.51 g	50 mL	253018	10/16/12 10:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			253307	10/17/12 21:49	UU	TAL SAV
Total/NA	Prep	3050B			1.01 g	100 mL	252902	10/15/12 13:01	RAM	TAL SAV
Total/NA	Analysis	6010B		1			253839	10/23/12 06:26	BCB	TAL SAV
Total/NA	Analysis	6010B		10			254102	10/24/12 12:45	BCB	TAL SAV
Total/NA	Analysis	Moisture		1			252822	10/14/12 16:24	FS	TAL SAV

Client Sample ID: BAND-DS-SB03-03

Date Collected: 10/11/12 10:30

Date Received: 10/13/12 11:01

Lab Sample ID: 680-83781-3

Matrix: Solid

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.176 g	5 mL	252887	10/15/12 12:28	FS	TAL SAV
Total/NA	Analysis	8260B		1			253649	10/20/12 17:14	RB	TAL SAV
Total/NA	Prep	3546			30.14 g	1 mL	253887	10/23/12 15:59	AJW	TAL SAV
Total/NA	Analysis	8270C		1			254243	10/24/12 15:58	BB	TAL SAV
Total/NA	Prep	5035			4.89 g	5 mL	252860	10/15/12 10:21	FS	TAL SAV

Lab Chronicle

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB03-03

Lab Sample ID: 680-83781-3

Date Collected: 10/11/12 10:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1			253075	10/15/12 14:09	SMC	TAL SAV
Total/NA	Prep	3546			30.42 g	1 mL	253036	10/17/12 09:07	MAV	TAL SAV
Total/NA	Analysis	8015B		1			253781	10/19/12 01:02	JK	TAL SAV
Total/NA	Prep	7471A			0.51 g	50 mL	253018	10/16/12 10:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			253307	10/17/12 21:53	UU	TAL SAV
Total/NA	Prep	3050B			1.02 g	100 mL	252902	10/15/12 13:01	RAM	TAL SAV
Total/NA	Analysis	6010B		1			253839	10/23/12 06:32	BCB	TAL SAV
Total/NA	Analysis	Moisture		1			252822	10/14/12 16:24	FS	TAL SAV

Client Sample ID: BAND-DS-SB04-00

Lab Sample ID: 680-83781-4

Date Collected: 10/11/12 11:00

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.5 g	5 mL	252887	10/15/12 12:28	FS	TAL SAV
Total/NA	Analysis	8260B		1			253649	10/20/12 17:37	RB	TAL SAV
Total/NA	Prep	3546	RE		30.02 g	1 mL	253887	10/23/12 15:59	AJW	TAL SAV
Total/NA	Analysis	8270C	RE	1			254167	10/24/12 21:09	BB	TAL SAV
Total/NA	Prep	3546			30.04 g	1 mL	253131	10/17/12 10:26	MAV	TAL SAV
Total/NA	Analysis	8270C		1			254351	10/26/12 12:50	BB	TAL SAV
Total/NA	Prep	5035			3.513 g	5 mL	252860	10/15/12 10:21	FS	TAL SAV
Total/NA	Analysis	8015B		1			253075	10/15/12 14:28	SMC	TAL SAV
Total/NA	Prep	3546			30.28 g	1 mL	253036	10/17/12 09:07	MAV	TAL SAV
Total/NA	Analysis	8015B		1			253781	10/19/12 01:16	JK	TAL SAV
Total/NA	Prep	7471A			0.51 g	50 mL	253018	10/16/12 10:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			253307	10/17/12 21:56	UU	TAL SAV
Total/NA	Prep	3050B			1.08 g	100 mL	252902	10/15/12 13:01	RAM	TAL SAV
Total/NA	Analysis	6010B		1			253839	10/23/12 06:50	BCB	TAL SAV
Total/NA	Analysis	Moisture		1			252822	10/14/12 16:24	FS	TAL SAV

Client Sample ID: BAND-DS-SB05-00

Lab Sample ID: 680-83781-5

Date Collected: 10/11/12 11:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.075 g	5 mL	252887	10/15/12 12:28	FS	TAL SAV
Total/NA	Analysis	8260B		1			253649	10/20/12 17:59	RB	TAL SAV
Total/NA	Prep	3546			30.15 g	1 mL	253887	10/23/12 15:59	AJW	TAL SAV
Total/NA	Analysis	8270C		1			254167	10/24/12 21:38	BB	TAL SAV
Total/NA	Prep	5035			3.392 g	5 mL	252860	10/15/12 10:21	FS	TAL SAV
Total/NA	Analysis	8015B		1			253520	10/18/12 13:19	SMC	TAL SAV
Total/NA	Prep	3546			30.27 g	1 mL	253036	10/17/12 09:07	MAV	TAL SAV
Total/NA	Analysis	8015B		1			253781	10/19/12 01:30	JK	TAL SAV
Total/NA	Prep	7471A			0.56 g	50 mL	253018	10/16/12 10:34	UU	TAL SAV

Lab Chronicle

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-DS-SB05-00

Lab Sample ID: 680-83781-5

Date Collected: 10/11/12 11:30

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		1			253307	10/17/12 22:05	UU	TAL SAV
Total/NA	Prep	3050B			1.07 g	100 mL	252902	10/15/12 13:01	RAM	TAL SAV
Total/NA	Analysis	6010B		1			253839	10/23/12 06:55	BCB	TAL SAV
Total/NA	Analysis	Moisture		1			252822	10/14/12 16:24	FS	TAL SAV

Client Sample ID: BAND-ALF-TP01-00

Lab Sample ID: 680-83781-6

Date Collected: 10/10/12 10:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.578 g	5 mL	252887	10/15/12 12:28	FS	TAL SAV
Total/NA	Analysis	8260B		1			253649	10/20/12 18:22	RB	TAL SAV
Total/NA	Prep	3546			30.22 g	1 mL	253887	10/23/12 15:59	AJW	TAL SAV
Total/NA	Analysis	8270C		1			254167	10/24/12 22:07	BB	TAL SAV
Total/NA	Prep	5035			4.795 g	5 mL	252860	10/15/12 10:21	FS	TAL SAV
Total/NA	Analysis	8015B		1			253075	10/15/12 15:07	SMC	TAL SAV
Total/NA	Prep	3546			30.50 g	1 mL	253036	10/17/12 09:07	MAV	TAL SAV
Total/NA	Analysis	8015B		1			253781	10/19/12 01:45	JK	TAL SAV
Total/NA	Prep	7471A			0.53 g	50 mL	253018	10/16/12 10:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			253307	10/17/12 22:08	UU	TAL SAV
Total/NA	Prep	3050B			1.09 g	100 mL	252902	10/15/12 13:01	RAM	TAL SAV
Total/NA	Analysis	6010B		1			253839	10/23/12 07:01	BCB	TAL SAV
Total/NA	Analysis	Moisture		1			252822	10/14/12 16:24	FS	TAL SAV

Client Sample ID: BAND-ALF-TP02-00

Lab Sample ID: 680-83781-7

Date Collected: 10/10/12 11:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.27 g	5 mL	252887	10/15/12 12:28	FS	TAL SAV
Total/NA	Analysis	8260B		1			253649	10/20/12 18:45	RB	TAL SAV
Total/NA	Prep	3546			30.00 g	1 mL	253887	10/23/12 15:59	AJW	TAL SAV
Total/NA	Analysis	8270C		1			254167	10/24/12 22:35	BB	TAL SAV
Total/NA	Prep	5035			4.932 g	5 mL	252860	10/15/12 10:21	FS	TAL SAV
Total/NA	Analysis	8015B		1			253075	10/15/12 15:27	SMC	TAL SAV
Total/NA	Prep	3546			30.19 g	1 mL	253036	10/17/12 09:07	MAV	TAL SAV
Total/NA	Analysis	8015B		1			253781	10/19/12 01:59	JK	TAL SAV
Total/NA	Prep	7471A			0.51 g	50 mL	253018	10/16/12 10:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			253307	10/17/12 22:11	UU	TAL SAV
Total/NA	Prep	3050B			1.02 g	100 mL	252902	10/15/12 13:01	RAM	TAL SAV
Total/NA	Analysis	6010B		1			253839	10/23/12 07:07	BCB	TAL SAV
Total/NA	Analysis	Moisture		1			252822	10/14/12 16:24	FS	TAL SAV

Lab Chronicle

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP03-00

Lab Sample ID: 680-83781-8

Date Collected: 10/10/12 12:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.217 g	5 mL	252887	10/15/12 12:28	FS	TAL SAV
Total/NA	Analysis	8260B		1			253649	10/20/12 19:07	RB	TAL SAV
Total/NA	Prep	3546			30.25 g	1 mL	253887	10/23/12 15:59	AJW	TAL SAV
Total/NA	Analysis	8270C		1			254167	10/24/12 23:04	BB	TAL SAV
Total/NA	Prep	5035			5.364 g	5 mL	252860	10/15/12 10:21	FS	TAL SAV
Total/NA	Analysis	8015B		1			253075	10/15/12 15:47	SMC	TAL SAV
Total/NA	Prep	3546			30.03 g	1 mL	253036	10/17/12 09:07	MAV	TAL SAV
Total/NA	Analysis	8015B		1			253781	10/19/12 02:13	JK	TAL SAV
Total/NA	Prep	7471A			0.51 g	50 mL	253018	10/16/12 10:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			253307	10/17/12 22:15	UU	TAL SAV
Total/NA	Prep	3050B			1.05 g	100 mL	252902	10/15/12 13:01	RAM	TAL SAV
Total/NA	Analysis	6010B		1			253839	10/23/12 07:13	BCB	TAL SAV
Total/NA	Analysis	Moisture		1			252822	10/14/12 16:24	FS	TAL SAV

Client Sample ID: BAND-ALF-TP04-00

Lab Sample ID: 680-83781-9

Date Collected: 10/10/12 13:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.06 g	5 mL	252887	10/15/12 12:28	FS	TAL SAV
Total/NA	Analysis	8260B		1			253649	10/20/12 19:30	RB	TAL SAV
Total/NA	Prep	3546			30.11 g	1 mL	253887	10/23/12 15:59	AJW	TAL SAV
Total/NA	Analysis	8270C		5			254167	10/24/12 23:33	BB	TAL SAV
Total/NA	Prep	5035			6.001 g	5 mL	252860	10/15/12 10:21	FS	TAL SAV
Total/NA	Analysis	8015B		1			253075	10/15/12 16:06	SMC	TAL SAV
Total/NA	Prep	3546			30.07 g	1 mL	253036	10/17/12 09:07	MAV	TAL SAV
Total/NA	Analysis	8015B		1			253781	10/19/12 02:27	JK	TAL SAV
Total/NA	Prep	7471A			0.57 g	50 mL	253018	10/16/12 10:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			253307	10/17/12 22:18	UU	TAL SAV
Total/NA	Prep	3050B			1.08 g	100 mL	252902	10/15/12 13:01	RAM	TAL SAV
Total/NA	Analysis	6010B		1			253839	10/23/12 07:19	BCB	TAL SAV
Total/NA	Analysis	Moisture		1			252822	10/14/12 16:24	FS	TAL SAV

Client Sample ID: BAND-ALF-TP05-00

Lab Sample ID: 680-83781-10

Date Collected: 10/10/12 14:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.921 g	5 mL	252887	10/15/12 12:28	FS	TAL SAV
Total/NA	Analysis	8260B		1			253649	10/20/12 19:52	RB	TAL SAV
Total/NA	Prep	3546	RE		30.19 g	1 mL	253887	10/23/12 15:59	AJW	TAL SAV
Total/NA	Analysis	8270C	RE	1			254167	10/25/12 00:02	BB	TAL SAV
Total/NA	Prep	3546			30.10 g	1 mL	253131	10/17/12 10:26	MAV	TAL SAV
Total/NA	Analysis	8270C		1			254175	10/25/12 15:30	BB	TAL SAV

Lab Chronicle

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP05-00

Lab Sample ID: 680-83781-10

Date Collected: 10/10/12 14:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.499 g	5 mL	252860	10/15/12 10:21	FS	TAL SAV
Total/NA	Analysis	8015B		1			253075	10/15/12 16:26	SMC	TAL SAV
Total/NA	Prep	3546			30.03 g	1 mL	253036	10/17/12 09:07	MAV	TAL SAV
Total/NA	Analysis	8015B		1			253781	10/19/12 02:41	JK	TAL SAV
Total/NA	Prep	7471A			0.54 g	50 mL	253018	10/16/12 10:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			253307	10/17/12 22:21	UU	TAL SAV
Total/NA	Prep	3050B			1.07 g	100 mL	252902	10/15/12 13:01	RAM	TAL SAV
Total/NA	Analysis	6010B		1			253839	10/23/12 07:24	BCB	TAL SAV
Total/NA	Analysis	Moisture		1			252822	10/14/12 16:24	FS	TAL SAV

Client Sample ID: BAND-ALF-TP06-00

Lab Sample ID: 680-83781-11

Date Collected: 10/10/12 15:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.111 g	5 mL	252887	10/15/12 12:28	FS	TAL SAV
Total/NA	Analysis	8260B		1			253649	10/20/12 20:15	RB	TAL SAV
Total/NA	Prep	3546			30.28 g	1 mL	253887	10/23/12 15:59	AJW	TAL SAV
Total/NA	Analysis	8270C		1			254243	10/24/12 14:25	BB	TAL SAV
Total/NA	Prep	5035			4.89 g	5 mL	252860	10/15/12 10:21	FS	TAL SAV
Total/NA	Analysis	8015B		1			253075	10/15/12 16:45	SMC	TAL SAV
Total/NA	Prep	3546			30.47 g	1 mL	253036	10/17/12 09:07	MAV	TAL SAV
Total/NA	Analysis	8015B		1			253781	10/19/12 02:55	JK	TAL SAV
Total/NA	Prep	7471A			0.52 g	50 mL	253018	10/16/12 10:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			253307	10/17/12 22:24	UU	TAL SAV
Total/NA	Prep	3050B			1.08 g	100 mL	252902	10/15/12 13:01	RAM	TAL SAV
Total/NA	Analysis	6010B		1			253839	10/23/12 07:30	BCB	TAL SAV
Total/NA	Analysis	Moisture		1			252822	10/14/12 16:24	FS	TAL SAV

Client Sample ID: BAND-ALF-TP01-00D

Lab Sample ID: 680-83781-12

Date Collected: 10/10/12 10:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.175 g	5 mL	252887	10/15/12 12:28	FS	TAL SAV
Total/NA	Analysis	8260B		1			253649	10/20/12 20:38	RB	TAL SAV
Total/NA	Prep	3546			30.18 g	1 mL	253887	10/23/12 15:59	AJW	TAL SAV
Total/NA	Analysis	8270C		1			254175	10/25/12 14:03	BB	TAL SAV
Total/NA	Prep	5035			5.126 g	5 mL	252860	10/15/12 10:21	FS	TAL SAV
Total/NA	Analysis	8015B		1			253075	10/15/12 17:05	SMC	TAL SAV
Total/NA	Prep	3546			30.46 g	1 mL	253036	10/17/12 09:07	MAV	TAL SAV
Total/NA	Analysis	8015B		1			253781	10/19/12 03:10	JK	TAL SAV
Total/NA	Prep	7471A			0.51 g	50 mL	253018	10/16/12 10:34	UU	TAL SAV
Total/NA	Analysis	7471A		1			253307	10/17/12 22:27	UU	TAL SAV

Lab Chronicle

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Client Sample ID: BAND-ALF-TP01-00D

Lab Sample ID: 680-83781-12

Date Collected: 10/10/12 10:15

Matrix: Solid

Date Received: 10/13/12 11:01

Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.08 g	100 mL	252902	10/15/12 13:01	RAM	TAL SAV
Total/NA	Analysis	6010B		1			253839	10/23/12 07:36	BCB	TAL SAV
Total/NA	Analysis	Moisture		1			252822	10/14/12 16:24	FS	TAL SAV

Client Sample ID: BAND-TB01

Lab Sample ID: 680-83781-13

Date Collected: 10/10/12 10:00

Matrix: Water

Date Received: 10/13/12 11:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	253368	10/18/12 14:03	AJMC	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

☐ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE BAODELIER NM		PROJECT NO. PAST 128555 SUBS	PROJECT LOCATION (STATE) NM		MATRIX TYPE		REQUIRED ANALYSIS										PAGE 1	OF
TAL (LAB) PROJECT MANAGER J. LANIER		P.O. NUMBER	CONTRACT NO.		COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8260 B VOCs B015 B GRD B015 B DRO B270C SVOC G010 B TAL METALS TATI A MERCURY											STANDARD REPORT DELIVERY ☒	
CLIENT (SITE) PM ED KLEINKAUF		CLIENT PHONE 412-269-4688	CLIENT FAX 412-375-3999														DATE DUE _____	
CLIENT NAME MICHAEL BAKER JR		CLIENT E-MAIL EKLEINKAUF@HBAKERCORP.COM												EXPEDITED REPORT DELIVERY (SURCHARGE) ☐				
CLIENT ADDRESS 100 AIRSIDE DRIVE, MOON TWP, PA 15108														DATE DUE _____				
COMPANY CONTRACTING THIS WORK (if applicable) NATIONAL PARK SERVICE					PAID										NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 3			
SAMPLE		SAMPLE IDENTIFICATION			NUMBER OF CONTAINERS SUBMITTED										REMARKS			
DATE	TIME																	
10/11/12	0930	BAND-DS-SB01-00			X	X	X	X	X	X	X	X	X	X				
10/11/12	1000	BAND-DS-SB02-00			X	X	X	X	X	X	X	X	X	X				
10/11/12	1030	BAND-DS-SB03-03			X	X	X	X	X	X	X	X	X	X				
10/11/12	1100	BAND-DS-SB04-00			X	X	X	X	X	X	X	X	X	X				
10/11/12	1130	BAND-DS-SB05-00			X	X	X	X	X	X	X	X	X	X				
RELINQUISHED BY: (SIGNATURE) <i>E. Klein</i>		DATE 10/12/12	TIME 1200 ^H	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME			
RECEIVED BY: (SIGNATURE) <i>FED Ex</i>		DATE 10/12/12	TIME 1200 ^H	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME			
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Beth A Daugherty</i>		DATE 10/13/12	TIME 1101	CUSTODY INTACT YES ☐ NO ☐	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-83781	LABORATORY REMARKS Temp 3.4°C, 5.9°C, 5.2°C											

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client MICHAEL BAKER JR., INC.		Project Manager ED KLEINKAUF		Date 10/12/2012	Chain of Custody Number 156794
Address 100 AIRSIDE DRIVE		Telephone Number (Area Code)/Fax Number 412-269-4688		Lab Number	
City MOORE TWP.	State PA	Zip Code 15108	Site Contact ETK	Lab Contact J. LANIER	Page 1 of 1

Project Name and Location (State) BAND PA/SE - NEW MEXICO		Carrier/Waybill Number		Analysis (Attach list if more space is needed)		Special Instructions/ Conditions of Receipt
Contract/Purchase Order/Quote No. 128555 PASI SUBS						

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						8260 B-VOC	8015 B-GRO	8015 B-DR0	8270 C-SVOC	6010 B-TAL	7471 A-Hg	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH							
BAND-ALF-TP01-00	10/10/12	1015				X							X	X	X	X	X	X	
BAND-ALF-TP02-00	10/10/12	1115				X							X	X	X	X	X	X	
BAND-ALF-TP03-00	10/10/12	1215				X							X	X	X	X	X	X	
BAND-ALF-TP04-00	10/10/12	1315				X							X	X	X	X	X	X	
BAND-ALF-TP05-00	10/10/12	1415				X							X	X	X	X	X	X	
BAND-ALF-TP06-00	10/10/12	1515				X							X	X	X	X	X	X	
BAND-ALF-TP01-00D	10/10/12	1015				X							X	X	X	X	X	X	DUPLICATE
BAND-TB01	10/10/12	1000	X							X			X						TRIP BLANK

Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	

Turn Around Time Required	QC Requirements (Specify)
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other _____	

1. Relinquished By <i>E. J. Kleinkauf</i>	Date 10/12/12	Time 1200^{hr}	1. Received By Fed Ex	Date 10/12/12	Time 1200^{hr}
2. Relinquished By	Date	Time	2. Received By <i>Beth A Daugherty</i>	Date 10-13-12	Time 1101
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments _____

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

680-83781

Temp 5.4°C, 5.9°C, 5.2°C

Certification Summary

Client: Michael Baker Jr., Inc.
Project/Site: NPS Bandelier National Monument

TestAmerica Job ID: 680-83781-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	02-28-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13
California	NELAC	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAC	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-12
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAC	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAC	6	30690	06-30-13
Louisiana	NELAC	6	LA100015	12-31-12
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	12-31-12
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAC	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAC	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAC	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
Rhode Island	State Program	1	LAO00244	12-30-12
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAC	6	T104704185-08-TX	11-30-12
USDA	Federal		SAV 3-04	04-07-14
Vermont	State Program	1	87052	11-16-12
Virginia	NELAC	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13