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**Former Wood Crib Assessment
Report**

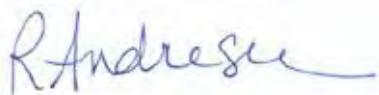
**Former TBE Machine Shop Property
Nikiski, Alaska**

ADEC File No. 2323.38.029

October 2015



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Former Wood Crib Assessment Report

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General Electric Company

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Acronyms and Abbreviations

ADEC	Alaska Department of Environmental Conservation
ARCADIS	ARCADIS U.S., Inc.
amsl	above mean sea level
bgs	below ground surface
COPC	contaminant of potential concern
DOT	department of transportation
DRO	diesel range organics
ft ²	square feet
GE	the General Electric Company
GRO	gasoline range organics
GPR	ground penetrating radar
LNAPL	light non-aqueous phase liquid
mg/kg	milligrams per kilogram
PCB	polychlorinated biphenyl
PCE	trichloroethylene
PID	photo ionization detector
Plan	Former Wood Crib Assessment Work Plan
TBE	TBE Machine Company, Inc.
TCE	tetrachloroethylene
SCL	Soil Cleanup Level
TestAmerica	TestAmerica, Inc.
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

1. Introduction

On behalf of the General Electric Company (GE), ARCADIS U.S., Inc. (ARCADIS) has prepared this report to summarize the Former Wood Crib Assessment performed at the former TBE Machine Shop Property located in Nikiski, Alaska ("Site"). The assessment was completed to identify the nature and extent of contaminants of potential concern (COPCs) in soil associated with the wood cribs at the Site. The assessment activities were performed as outlined in the Former Wood Crib Assessment Work Plan (Plan) (ARCADIS 2015). The assessment activities were completed on June 3rd and 4th, 2015. The work was conducted under the direction of a "qualified person" [18 AAC 75.990 (100) and 18 AAC 78.995 (118)]. The Site location and surrounding area are shown on **Figure 1**. Current Site features are shown on **Figure 2**.

2. Site Description

The Site includes Lots 11 and 12 of the Bernice Lake, Alaska Industrial Subdivision, within the Kenai Peninsula Borough (KPB), Alaska. The Site comprises approximately 74,000 square feet (ft^2) and is located at 49200 Kenai Spur Highway (milepost 22.5), Nikiski, Alaska. The Site is currently unoccupied and the land is leased by GE. The Site was used by GE prior to 1984 as an apparatus service shop. After 1984, it was leased by GE to TBE Machine Company, Inc. (TBE), which serviced oil field equipment. Operations were conducted in a 12,500 ft^2 steel-framed building on a concrete slab foundation. The building and concrete slab were deconstructed and removed by ARCADIS, on behalf of GE, as part of Site improvements completed in October 2014. No operations are currently being conducted at the Site, with the exception of property maintenance and the operation and maintenance of an in-well remediation groundwater treatment system, the components of which are housed in a small shed.

3. Site Geology and Hydrogeology

The Site lies on the western margin of the Kenai Lowlands, which is a sub-province of the Cook Inlet-Susitna Lowlands physiographic region. Approximately 100 miles long, the coastal shelf is bounded to the west by Cook Inlet, to the north by Turnagain arm, and to the south by Katchemak Bay. The Site lies in an area of relatively low topographic relief, at an approximate elevation of 115 feet above mean

sea level (amsl). The nearest surface water bodies are Bernice Creek, approximately 800 feet south of the Site, and Bernice Lake, approximately 700 feet southeast of the Site.

During Quaternary time, the Kenai Lowlands were affected by no less than five separate major glaciation episodes. Glaciers, glacier-fed streams, and periglacial winds transported sediments across the region, eventually depositing clay, silt, sand, and gravel in area basins and lakes. At numerous times, the lower portion of Cook Inlet was ice-dammed, resulting in proglacial lakes that deposited thick accumulations of fine-grained lacustrine sediments over large portions of the lowlands. At the Site, near surface deposits consist of a mixture of glacial till, fluvial, lacustrine, and coastal plain sediments of Quaternary age. An extensive layer of clay and silt exists at approximately 100 feet below ground surface (bgs), which forms the uppermost hydrogeologic confining layer. Groundwater above the confining layer generally exists in an unconfined state, while regional groundwater below the confining layer is semi-confined to confined. Hydrologic flow in the lower, semi-confined to confined groundwater, flows to Cook Inlet, while flow paths in the upper unconfined groundwater layer vary and are influenced by surface topography. A water supply well was installed at the Site in 1966 just north of the northwest corner of the former building location (**Figure 2**). The well extends to a depth of 80 feet bgs and is screened in the underlying confined aquifer. The potentiometric surface of the underlying confined aquifer is higher than that of the upper unconfined aquifer, indicating a potential upward vertical flow gradient.

Subsurface lithology recorded during previous investigations at the Site consists of slightly consolidated sand and sand/gravel mixtures. Shallow groundwater is encountered at a depth of approximately 45 feet bgs and is unconfined, consistent with the regional hydrogeology. Water elevation data from the Site indicate a generally flat gradient with limited groundwater flow, interpreted as slight movement to the east/southeast.

4. Historical Groundwater and Soil Assessment

Groundwater quality at the Site has been monitored since 1999. Constituents of concern in groundwater at the Site include chlorinated solvent compounds and fuel constituents, including diesel range organics (DRO) and gasoline range organics (GRO). Groundwater quality at the Site is being monitored through a network of 11 monitoring wells, and groundwater is currently being treated by an in-well remediation treatment technology, as documented by the *ART Post-System Startup Report*

submitted to Alaska Department of Environmental Conservation (ADEC) on August 15, 2014 by ARCADIS on behalf of GE. Groundwater elevations and water quality are currently monitored on a quarterly basis to monitor groundwater conditions. The locations of the on-Site monitoring wells are shown on **Figure 2**.

During the injection permitting process for the above-mentioned ART system, it was brought to the attention of GE that the existing wood cribs would need to be properly closed. This Report documents the evaluation of potential soil impacts that was performed related to the wood cribs and leach fields associated with the cesspool and former septic and floor drain systems that are located to the east of the former building. Three floor drains historically ran east to west underneath the location of the former building. Liquids from the drains went through an oil/water separator and then discharged to the cesspool. The oil/water separator was removed at some earlier date. The cesspool was excavated and removed in 1998, and the termination point was found to be a wood crib that was approximately 4' x 4' x 4' and buried at a depth of 8-12 feet bgs. The cesspool crib was found to be located 8 feet northeast of a septic crib, which is buried at approximately the same depth. During excavation, it was discovered that an overflow pipe from the septic crib also discharged into the cesspool crib. The septic crib remains in-place. The locations of the drainage features and crib locations are shown on **Figure 3**.

5. Constituents of Potential Concern

Based on review of historical data and reports, in comparison to Soil Cleanup Levels (SCLs), COPCs at the Site related to the former crib areas include the following:

- fuel hydrocarbons (DRO, GRO);
- chlorinated compounds (tetrachloroethylene [TCE], trichloroethylene [PCE]);
- volatile organic compound (VOC) constituents (ethylbenzene, xylenes); and
- polychlorinated biphenyls (PCBs).

COPCs for this Site and the associated SCLs (based on migration to groundwater criteria, and direct contact criteria [for consideration of surficial samples]) are presented in the table below (Alaska Administrative Code 75.341(c), 2008):

COPC	Migration to GW Soil Cleanup Level (mg/kg)	Direct Contact Soil Cleanup Level (mg/kg)
GRO	300	1,400
DRO	250	10,250
PCE	0.024	15
TCE	0.020	21
Ethylbenzene	6.9	10,100
Total Xylenes	63	20,300
PCBs	NA	1

6. Wood Crib Assessment Activities

The 2015 assessment was completed to evaluate potential soil impacts related to the cesspool crib (removed in 1998), the adjacent septic tank, crib, and associated drain lines. Specifically, soil samples were collected for field screening and laboratory analysis to delineate the horizontal and vertical extent of COPC-containing soil related to these historical features. The following activities were completed as part of the assessment:

- advanced ten soil boring via hand auger and Geoprobe;
- soil screening and sample collection;
- soil boring backfill; and
- containerization of soil cores.

These activities are described Sections 6.1 through 6.3 and section 8.

6.1 Soil Boring Locations and Advancement

Prior to soil sampling, a public utility locate was performed as well as an evaluation by a private locating firm using electromagnetic and ground penetrating radar (GPR) equipment. The survey was performed both to identify and avoid any potential utility conflicts during drilling, and to try to identify the location of the features of interest (wood cribs and septic tank). GPR results were inconclusive and the features could not be positively identified, so the ten boring locations were cited based on existing site knowledge and survey control. The soil boring locations are shown on **Figure 3**.

Soil borings WC-1-S through WC-10-S were first advanced to 5 feet bgs using hand auger/vacuum excavation as an added utility clearance measure. The borings were then advanced using a Geoprobe™ (direct push/hollow stem auger) drilling rig to a terminal depth of 15 feet bgs. During the advancement of each boring, three soil samples were collected for lab analysis. The soil samples were collected at depths of 0 to 2 feet bgs, at the interval with the highest PID reading or that coincided with a known site feature, and from 13 to 15 feet bgs. Four duplicate soil samples were collected from WC-1-S (4 to 6 feet bgs), WC-3-S (13 to 15 feet bgs), WC-5-S (13 to 15 feet bgs), and WC-9-S (0 to 2 feet bgs).

Based on review of initial results from the intervals above, additional samples were collected at locations WC-6-S and WC-7-S at depths of 18-20 feet bgs and 23-25 feet bgs.

6.2 Soil Sample Collection Methods

Each core/split spoon was inspected by ARCADIS field staff and screened using a photo ionization detector (PID). Analytical samples were collected based on field screening indications as described above. Analytical samples were placed directly into clean, laboratory-supplied containers and preserved specific to the analysis to be performed. Soil only came into contact with properly decontaminated or disposable materials and handling of the soils was kept at a minimum to prevent volatilization or possible cross-contamination. Samples were collected in accordance with ADEC Draft Field Sampling Guidance (ADEC 2010).

Sample containers were labeled to include the date, time, location and depth of the sample collection, and were immediately stored in an iced cooler, and kept at a

temperature of 2 to 6 degrees Celsius. The samples were retained at this temperature and accompanied by the chain-of-custody through delivery to the laboratory. Collected samples were referenced on field boring logs included as **Appendix A** and in field note documents included as **Appendix B**.

6.3 Field Screening

Soil samples were field screened continuously during boring advancement activities using a PID and visually classified using the Unified Soil Classification System (USCS) by trained ARCADIS field staff. Soils collected during the boring advancement were placed into a sealable plastic bag and allowed to volatilize for at least 10 minutes, but no more than 60 minutes. A PID was then inserted into a small opening of the plastic bag and used to read the concentration of VOCs in the bag. The VOC reading was recorded on the boring logs and field sheets used to document drilling activities. Field screening for volatiles also included a visual inspection of soils for the presence of light non-aqueous phase liquid (LNAPL), hydrocarbon odor or hydrocarbon sheen. Field screening values, lithology descriptions and soil classifications were recorded on boring logs included in **Appendix A**.

6.4 Soil Analytical Methods

Soil sample analysis was conducted by TestAmerica Laboratories, Inc. (TestAmerica) in Seattle, WA. The laboratory analytical methods used to complete the analyses are listed in the table below.

COPC	Lab Method
GRO	Alaska Method AK 101
DRO	Alaska Method AK 102
TCE, Ethylbenzene, Xylenes	PCE, Total United States Environmental Protection Agency (USEPA) Method 82060B
PCBs	USEPA Method 8082A

6.5 Soil Analytical Results

Soil analytical results were reported on a dry-weight basis. Soil analytical results are presented in **Table 1**. Soil analytical results that exceed ADEC Soil Cleanup Levels (SCLs) are presented on **Figure 4**.

Samples were collected from 10 soil boring locations as part of the former wood crib assessment. Soil borings were advanced to a depth of 15 feet bgs at each location. At two locations, borings were advanced to a depth of 25 feet bgs to achieve vertical delineation of COPCs above SCLs. A total of 34 samples were collected and analyzed by TestAmerica. Results were compared to ADEC Migration to Groundwater (and for surface samples, Direct Contact) SCLs, as listed in Section 5.

COPCs were not detected above SCLs at 7 of the 10 soil boring locations (WC-1-S, WC-2-S, WC-4-S, WC-5-S, WC-8-S, WC-9-S, and WC-10-S). PCBs were not detected at concentrations above the SCL of 1 mg/kg in any of the samples analyzed. One or more COPCs including GRO, DRO, m and p-Xylenes, total Xylenes, Ethylbenzene, PCE, and TCE were detected at concentrations greater than their applicable SCLs at three of the ten soil boring locations, as described below.

Soil samples at boring WC-3-S exceeded SCLs for PCE and TCE at depths of 0-2 feet bgs and 9-11 feet bgs, respectively. Since PCE was found in a surface sample, the result (0.027 mg/kg) was also compared to the Direct Contact SCL of 15 mg/kg. The Direct Contact SCL was not exceeded at this or any other sample locations. A sample collected from the same location at a depth of 13-15 feet bgs did not exceed SCLs for any COPC. Therefore, vertical delineation is considered complete at this location.

Soil samples at boring WC-6-S exceeded SCLs for GRO, DRO, m and p-Xylenes, total Xylenes, Ethylbenzene, PCE, and TCE at depths 9-11 feet bgs and 13-15 feet bgs. This soil boring was located in the approximate area of the former cesspool crib. The depth of COPCs above SCLs corresponds to the approximate depth where the crib had been reportedly buried (8-12 feet bgs). Two additional samples were collected at 18-20 feet bgs and 23-25 feet bgs to ensure full vertical delineation of COPCs. Soil concentrations of COPCs in both of the deeper samples were below SCLs.

Soil samples at boring WC-7-S exceeded SCLs for DRO and GRO in the sample collected at 11-13 feet bgs and DRO in the sample collected at 13-15 feet bgs. This soil boring was located in the approximate area of the septic crib. The septic crib is reportedly buried at a depth similar to the cesspool crib. Two additional samples were

collected at 18-20 feet bgs and 23-25 feet bgs to ensure full vertical delineation of COPCs. Soil concentrations of COPCs in both of the deeper samples were below SCLs.

7. Laboratory Data Quality Assurance Summary

As required by the ADEC (2009b), ARCADIS completed a laboratory data review checklist for the Test America laboratories reports from the former wood crib assessment. The laboratory analytical reports are included in **Appendix C** and the ADEC data review checklists are included in **Appendix D**.

7.1 Accuracy

Accuracy is evaluated using percent recoveries for laboratory quality control samples such as laboratory control samples (LCS), laboratory control sample duplicates (LCSD), matrix spike (MS) samples, and matrix spike sample duplicates (MSD). The LCS percent recoveries were outside the laboratory upper control limit for multiple VOC analytes evaluated during the June 2015 assessment. The MS and/or MSD percent recoveries were outside the laboratory upper control limit for multiple VOC analytes evaluated during the June 2015 assessment. The ADEC quality assurance/quality control (QA/QC) checklists (Appendix D) contain details regarding this review. The data meet accuracy objectives as indicated by the laboratory quality control samples.

7.2 Precision

Field duplicate samples were collected at a frequency of approximately 10 percent of the overall number of samples collected as part of the former wood crib assessment. The relative percent difference (RPD) between the parent sample and associated field duplicate was calculated and used to evaluate field sampling precision. Multiple field duplicate/parent sample RPDs exceeded the project data quality objective (DQO) of 50% for soil samples. The ADEC QA/QC checklists (Appendix D) contain details regarding this review. The data meet precision objectives for LCS and LCSD and MS and MSD RPDs.

7.3 Representativeness

The data appear to be representative of on-Site conditions and are generally consistent with objectives to further delineate the Site impacts.

7.4 Comparability

The laboratory results are presented in the same units as previous reports to allow for comparison between reports.

7.5 Completeness

The results appear to be valid and usable, and meet the ADEC completeness goal.

A review of the laboratory data packages indicates that the collected samples are considered to be representative of Site conditions at the locations and times they were obtained. Based on the review, no samples were rejected as unusable due to QC failures.

7.6 Sensitivity

Laboratory method blanks were analyzed in association with samples collected for this project to check for contributions to the analytical results possibly attributable to laboratory-based contamination. Trip blanks were submitted with soil samples for VOC and GRO analysis to verify that cross-contamination did not occur during sample handling and transport. A trip blank was listed on the chain of custody (COC) for soil samples collected in July 2015, however, results were not presented in the laboratory report. There were detections in two of the method blanks associated with VOC analysis for some samples collected in June 2015. The ADEC QA/QC checklists (Appendix D) contain details regarding this review. There were no additional blank detections affecting the data quality for the reporting period.

8. Management of Investigation-Derived Wastes

Soil cuttings generated during the field activities are contained in Department of Transportation (DOT)-approved, 55-gallon steel drums. The investigation-derived waste drums have been appropriately labeled and remain on-Site awaiting disposal in conjunction with future Site activities.

9. Summary and Conclusions

Ten soil borings (WC-1-S through WC-10-S) were advanced during the former wood crib assessment activities. Soil samples were collected and submitted to TestAmerica for analysis of the following compounds: GRO, DRO, m- and p-Xylene, total Xylenes,

Ethylbenzene, PCE, TCE, and PCBs. COC concentrations above ADECs migration to groundwater SCLs were detected in samples collected from borings WC-3-S, WC-6-S, and WC-7-S as follows:

The soil sample from WC-3-S between 0 and 2 feet bgs identified concentrations of PCE greater than the ADEC migration to groundwater SCL; however, the PCE detection was well below the direct contact SCL of 15 mg/kg. Migration to groundwater is considered vertically delineated by deeper samples at that location collected at depths of 9-11 feet and 13-15 feet bgs.

Boring location WC-6-S was advanced in the immediate vicinity of the former cesspool wood crib, and boring location WC-7-S was advanced in the immediate vicinity of the septic wood crib. Soil samples collected from boring WC-6 between 9 and 15 feet bgs identified concentrations of GRO, DRO, m & p Xylenes, Ethylbenzene, PCE, TCE, and total Xylenes greater than the ADEC SCLs. Soil samples collected from WC-7 identified GRO and DRO (between 11 and 13 feet bgs) and GRO (between 13 and 15 ft. bgs) at concentrations greater than the ADEC SCLs. Deeper samples were collected from between 18 to 20 feet bgs and 23 to 25 feet bgs at both WC-6-S and WC-7-S. There were no exceedances of ADEC SCLs in the deeper intervals, providing full vertical delineation of all COCs at these locations. Horizontal delineation of all COCs is provided by sample data from locations WC-3-S through WC-5-S and WC-8-S through WC-10-S.

Based on the results of the former wood crib assessment, residual GRO, DRO, m and p-Xylenes, total Xylenes, Ethylbenzene, PCE, and TCE impacts were confirmed in the vicinity of the septic crib and cesspool. The extent of these COCs above ADEC SCLs has been horizontally and vertically delineated.

References

Alaska Administrative Code. Article Three, 18AAC 75. Revised October 9, 2008.

Alaska Department of Environmental Conservation. 1992. Recommended Practices for Monitoring Well Designs, Installation, and Decommissioning Version 2.2, dated April 1992.

Alaska Department of Environmental Conservation. 2008. Technical Memorandum 06-002, dated August 20, 2008.

Alaska Department of Environmental Conservation. 2009a. Monitoring Well Guidance. February 2009.

Alaska Department of Environmental Conservation. 2009b. Technical Memorandum. Environmental Laboratory Data and Quality Assurance Requirements. March 2009.

Alaska Department of Environmental Conservation. 2010. Draft Field Sampling Guidance.

ARCADIS. 2015. Former Wood Crib Assessment Work Plan. May 22.

Natural Resources Conservation Service and U.S. Department of Agriculture. 2004 Soil Survey of Greater Fairbanks Area, Alaska. Natural Resource Conservation and U.S. Department of Agriculture. 2004.

ARCADIS

Tables

Table 1
Summary of Detected Soil Sample Analytical Results

Former Wood Crib Assessment Report
General Electric Company, Nikiski, Alaska

Location ID: Sample Depth(Feet): Date Collected:	Migration to Groundwater	Direct Contact	Units	WC-1-S 0 - 2 06/04/15	WC-1-S 4 - 6 06/04/15	WC-1-S 13 - 15 06/04/15	WC-2-S 0 - 2 06/04/15	WC-2-S 4 - 6 06/04/15	WC-2-S 13 - 15 06/04/15
Detected PCBs									
Aroclor-1016	--	1	mg/kg	0.01 U	0.01 U [0.0096 U]	0.01 U	0.01 U	0.011 U	0.011 U
Aroclor-1254	--	1	mg/kg	0.01 U	0.01 U [0.0096 U]	0.01 U	0.01 U	0.011 U	0.011 U
Aroclor-1260	--	1	mg/kg	0.01 U	0.01 U [0.0096 U]	0.01 U	0.01 U	0.011 U	0.011 U
Detected Volatile Organics									
m-Xylene & p-Xylene	63	20,300	mg/kg	0.019 JB*	0.01 JB* [0.0036 U]	0.0035 U*	0.0036 U*	0.0033 U*	0.0036 U*
Ethylbenzene	6.9	10,100	mg/kg	0.0066 JB*	0.004 JB* [0.0037 JB]	0.0024 U*	0.0024 U*	0.0022 U*	0.0024 U*
Tetrachloroethene (PCE)	0.024	15	mg/kg	0.017 JB	0.014 JB [0.0064 U]	0.0063 U	0.0063 U	0.0058 U	0.0064 U
Trichloroethene (TCE)	0.02	21	mg/kg	0.0079 J*	0.0077 J* [0.0037 U]	0.0037 U*	0.0037 U*	0.0034 U*	0.0037 U*
Xylenes (o)	63	20,300	mg/kg	0.025 J*	0.014 J* [0.0036 U]	0.0035 U*	0.0036 U*	0.0033 U*	0.0036 U*
Xylenes (total)	63	20,300	mg/kg	0.044 B*	0.024 JB* [0.0036 U]	0.0035 U*	0.0036 U*	0.0033 U*	0.0036 U*
Detected Gasoline Range Organics									
GRO (C6-C10)	300	1,400	mg/kg	4.4 U	4.9 U [4.6 U]	4.7 U	4.8 U	4.4 U	4.8 U
Detected Diesel Range Organics									
DRO (C10-C25)	250	10,250	mg/kg	20 Y	20 U [21 U]	20 U	19 U	20 U	21 U

Notes:

Exceeds Migration to GW SCL

B - Analyte was also detected in the associated method blank.

J - Indicates an estimated value.

[] - data is the result of a blind field duplicate sample analysis

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

U* - The compound was analyzed for but not detected. The associated value is the compound quantitation limit. RPD of the LCS and LCSD exceeds the control limits.

Y - The chromatographic response resembles a typical fuel pattern.

Table 1
Summary of Detected Soil Sample Analytical Results

Former Wood Crib Assessment Report
General Electric Company, Nikiski, Alaska

Location ID: Sample Depth(Feet): Date Collected:	Migration to Groundwater	Direct Contact	Units	WC-3-S 0 - 2 06/03/15	WC-3-S 9 - 11 06/03/15	WC-3-S 13 - 15 06/03/15	WC-4-S 0 - 2 06/03/15	WC-4-S 9 - 11 06/03/15	WC-4-S 13 - 15 06/03/15
Detected PCBs									
Aroclor-1016	--	1	mg/kg	0.012 U	0.013 U	0.01 U [0.0097 U]	0.012 U	0.013 U	0.01 U
Aroclor-1254	--	1	mg/kg	0.012 U	0.013 U	0.01 U [0.0097 U]	0.012 U	0.013 U	0.01 U
Aroclor-1260	--	1	mg/kg	0.012 U	0.013 U	0.01 U [0.0097 U]	0.012 U	0.013 U	0.01 U
Detected Volatile Organics									
m-Xylene & p-Xylene	63	20,300	mg/kg	0.0065 JB*	0.036 J	0.0058 J [0.0046 JB]	0.0055 J	0.0061 J	0.016 J
Ethylbenzene	6.9	10,100	mg/kg	0.0036 JB*	0.0039 J	0.003 J [0.003 JB]	0.0031 U	0.0035 U	0.0064 J
Tetrachloroethene (PCE)	0.024	15	mg/kg	0.027 JB	0.023 J	0.0082 J [0.012 J]	0.0083 U	0.0094 U	0.0071 J
Trichloroethene (TCE)	0.02	21	mg/kg	0.018 J*	0.04 J	0.007 J [0.0091 J]	0.0048 U	0.0085 J	0.014 J
Xylenes (o)	63	20,300	mg/kg	0.0048 U*	0.038 J	0.0048 J [0.0052 JB]	0.0047 U	0.0053 U	0.0073 J
Xylenes (total)	63	20,300	mg/kg	0.0065 JB*	0.074	0.011 J [0.0098 JB]	0.0055 J	0.0061 J	0.023 J
Detected Gasoline Range Organics									
GRO (C6-C10)	300	1,400	mg/kg	6.3 U	6.9 U	4.3 U [4.4 U]	6.2 U	7.1 U	4.4 U
Detected Diesel Range Organics									
DRO (C10-C25)	250	10,250	mg/kg	31 Y	62 Y	21 U [20 U]	26 Y	53 Y	20 U

Notes:

Exceeds Migration to GW SCL

B - Analyte was also detected in the associated method blank.

J - Indicates an estimated value.

[] - data is the result of a blind field duplicate sample analysis

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

U* - The compound was analyzed for but not detected. The associated value is the compound quantitation limit. RPD of the LCS and LCSD exceeds the control limits.

Y - The chromatographic response resembles a typical fuel pattern.

Table 1
Summary of Detected Soil Sample Analytical Results

Former Wood Crib Assessment Report
General Electric Company, Nikiski, Alaska

Location ID: Sample Depth(Feet): Date Collected:	Migration to Groundwater	Direct Contact	Units	WC-5-S 0 - 2 06/03/15	WC-5-S 9 - 11 06/03/15	WC-5-S 13 - 15 06/03/15	WC-6-S 0 - 2 06/03/15	WC-6-S 9 - 11 06/03/15	WC-6-S 13 - 15 06/03/15	WC-6-S 18 - 20 07/30/15	WC-6-S 23 - 25 07/30/15
Detected PCBs											
Aroclor-1016	--	1	mg/kg	0.013 U	0.013 U	0.011 U [0.01 U]	0.012 U	0.013 U	0.022	NA	NA
Aroclor-1254	--	1	mg/kg	0.013 U	0.013 U	0.011 U [0.01 U]	0.012 U	0.11	0.16	NA	NA
Aroclor-1260	--	1	mg/kg	0.013 U	0.013 U	0.011 U [0.01 U]	0.021	0.013 U	0.011 U	NA	NA
Detected Volatile Organics											
m-Xylene & p-Xylene	63	20,300	mg/kg	0.0048 U	0.0059 J	0.14 [0.14 B]	0.0088 J	110	79	0.17	0.85
Ethylbenzene	6.9	10,100	mg/kg	0.0032 U	0.0031 U	0.038 J [0.044 JB]	0.0038 J	41	27	0.046	0.28
Tetrachloroethene (PCE)	0.024	15	mg/kg	0.0085 U	0.0082 U	0.0063 U [0.0068 U]	0.0076 U	0.036	0.29	0.0027 U	0.0058 J
Trichloroethene (TCE)	0.02	21	mg/kg	0.005 U	0.0048 U	0.0064 J [0.0067 J]	0.0044 U	0.21	0.18	0.0035 U	0.0032 U
Xylenes (o)	63	20,300	mg/kg	0.0048 U	0.0046 U	0.0071 J [0.0094 JB]	0.0043 U	22	20	0.059	0.44
Xylenes (total)	63	20,300	mg/kg	0.0048 U	0.0059 J	0.15 [0.15 B]	0.0088 J	130	99	0.23	1.3
Detected Gasoline Range Organics											
GRO (C6-C10)	300	1,400	mg/kg	6.4 U	6.2 U	4.8 U [4.9 U]	5.7 U	1,400	1,200	25	24
Detected Diesel Range Organics											
DRO (C10-C25)	250	10,250	mg/kg	41 Y	100 Y	52 Y [22 U]	56 Y	4,500 Y	4,800 Y	100 Y	54 Y

Notes:

Exceeds Migration to GW SCL

B - Analyte was also detected in the associated method blank.

J - Indicates an estimated value.

[] - data is the result of a blind field duplicate sample analysis

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

U* - The compound was analyzed for but not detected. The associated value is the compound quantitation limit. RPD of the LCS and LCSD exceeds the control limits.

Y - The chromatographic response resembles a typical fuel pattern.

Table 1
Summary of Detected Soil Sample Analytical Results

Former Wood Crib Assessment Report
General Electric Company, Nikiski, Alaska

Location ID: Sample Depth(Feet): Date Collected:	Migration to Groundwater	Direct Contact	Units	WC-7-S 0 - 2 06/04/15	WC-7-S 11 - 13 06/04/15	WC-7-S 13 - 15 06/04/15	WC-7-S 18 - 20 07/30/15	WC-7-S 23 - 25 07/30/15
Detected PCBs								
Aroclor-1016	--	1	mg/kg	0.012 U	0.017	0.01 U	NA	NA
Aroclor-1254	--	1	mg/kg	0.012 U	0.12	0.041 P	NA	NA
Aroclor-1260	--	1	mg/kg	0.012 U	0.013 U	0.01 U	NA	NA
Detected Volatile Organics								
m-Xylene & p-Xylene	63	20,300	mg/kg	0.0046 J	10	2.9	0.024 J [0.025 J]	0.023 J
Ethylbenzene	6.9	10,100	mg/kg	0.0029 U	0.59	0.15	0.0058 J [0.0065 J]	0.0068 J
Tetrachloroethene (PCE)	0.024	15	mg/kg	0.0077 U	0.009 U	0.0068 U	0.0026 U [0.0028 U]	0.0043 J
Trichloroethene (TCE)	0.02	21	mg/kg	0.0045 U	0.0094 J	0.004 U	0.0033 U [0.0036 U]	0.0035 U
Xylenes (o)	63	20,300	mg/kg	0.0044 U	3.2	0.68	0.0095 J [0.011 J]	0.0091 J
Xylenes (total)	63	20,300	mg/kg	0.0046 J	13	3.6	0.034 [0.036]	0.032
Detected Gasoline Range Organics								
GRO (C6-C10)	300	1,400	mg/kg	5.8 U	800	170	5.4	4.9
Detected Diesel Range Organics								
DRO (C10-C25)	250	10,250	mg/kg	26 Y	8,100 Y	820 Y	36 Y	30 Y

Notes:

Exceeds Migration to GW SCL

B - Analyte was also detected in the associated method blank.

J - Indicates an estimated value.

[] - data is the result of a blind field duplicate sample analysis

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

U* - The compound was analyzed for but not detected. The associated value is the compound quantitation limit. RPD of the LCS and LCSD exceeds the control limits.

Y - The chromatographic response resembles a typical fuel pattern.

Table 1
Summary of Detected Soil Sample Analytical Results

Former Wood Crib Assessment Report
General Electric Company, Nikiski, Alaska

Location ID: Sample Depth(Feet): Date Collected:	Migration to Groundwater	Direct Contact	Units	WC-8-S 0 - 2 06/04/15	WC-8-S 9 - 11 06/04/15	WC-8-S 13 - 15 06/04/15	WC-9-S 0 - 2 06/04/15	WC-9-S 9 - 11 06/04/15	WC-9-S 13 - 15 06/04/15
Detected PCBs									
Aroclor-1016	--	1	mg/kg	0.011 U	0.011 U	0.011 U	0.011 U [0.013 U]	0.013 U	0.012 U
Aroclor-1254	--	1	mg/kg	0.011 U	0.011 U	0.011 U	0.011 U [0.013 U]	0.013 U	0.012 U
Aroclor-1260	--	1	mg/kg	0.011 U	0.011 U	0.011 U	0.011 U [0.013 U]	0.013 U	0.012 U
Detected Volatile Organics									
m-Xylene & p-Xylene	63	20,300	mg/kg	0.0044 U	0.0043 J	0.028 J	0.03 J [0.0071 JB]	0.027 J	0.0071 JF1B
Ethylbenzene	6.9	10,100	mg/kg	0.031 J	0.017 J	0.0079 J	0.011 J [0.053 JB]	0.022 J	0.029 JF1B
Tetrachloroethene (PCE)	0.024	15	mg/kg	0.0077 U	0.0069 U	0.0061 U	0.0073 U [0.0097 U]	0.0093 U	0.0088 UF1
Trichloroethene (TCE)	0.02	21	mg/kg	0.0045 U	0.004 U	0.0036 U	0.0042 U [0.0057 U]	0.0055 U	0.0051 UF1
Xylenes (o)	63	20,300	mg/kg	0.02 J	0.013 J	0.0063 J	0.0091 J [0.0055 U]	0.0082 J	0.005 UF1
Xylenes (total)	63	20,300	mg/kg	0.0044 U	0.0043 J	0.034 J	0.039 J [0.0071 JB]	0.035 J	0.0071 JBF1
Detected Gasoline Range Organics									
GRO (C6-C10)	300	1,400	mg/kg	5.8 U	5.2 U	4.6 U	5.5 U [7.1 U]	7 U	6.4 U
Detected Diesel Range Organics									
DRO (C10-C25)	250	10,250	mg/kg	23 U	21 U	21 U	40 Y [62 Y]	80 Y	51 Y

Notes:

Exceeds Migration to GW SCL

B - Analyte was also detected in the associated method blank.

J - Indicates an estimated value.

[] - data is the result of a blind field duplicate sample analysis

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

U* - The compound was analyzed for but not detected. The associated value is the compound quantitation limit. RPD of the LCS and LCSD exceeds the control limits.

Y - The chromatographic response resembles a typical fuel pattern.

Table 1
Summary of Detected Soil Sample Analytical Results

Former Wood Crib Assessment Report
General Electric Company, Nikiski, Alaska

Location ID: Sample Depth(Feet): Date Collected:	Migration to Groundwater	Direct Contact	Units	WC-10-S 0 - 2 06/03/15	WC-10-S 9 - 11 06/03/15	WC-10-S 13 - 15 06/03/15
Detected PCBs						
Aroclor-1016	--	1	mg/kg	0.012 U	0.012 U	0.012 U
Aroclor-1254	--	1	mg/kg	0.012 U	0.012 U	0.012 U
Aroclor-1260	--	1	mg/kg	0.012 U	0.012 U	0.012 U
Detected Volatile Organics						
m-Xylene & p-Xylene	63	20,300	mg/kg	0.0099 JB	0.012 JB	0.053 JB
Ethylbenzene	6.9	10,100	mg/kg	0.0095 JB	0.011 JB	0.021 JB
Tetrachloroethene (PCE)	0.024	15	mg/kg	0.0091 U	0.0095 U	0.0094 U
Trichloroethene (TCE)	0.02	21	mg/kg	0.0056 J	0.0056 U	0.0055 U
Xylenes (o)	63	20,300	mg/kg	0.0069 JB	0.007 JB	0.03 JB
Xylenes (total)	63	20,300	mg/kg	0.017 JB	0.019 JB	0.083 B
Detected Gasoline Range Organics						
GRO (C6-C10)	300	1,400	mg/kg	6.6 U	6.8 U	6.8 U
Detected Diesel Range Organics						
DRO (C10-C25)	250	10,250	mg/kg	44 Y	230 Y	28 Y

Notes:

Exceeds Migration to GW SCL

B - Analyte was also detected in the associated method blank.

J - Indicates an estimated value.

[] - data is the result of a blind field duplicate sample analysis

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

U* - The compound was analyzed for but not detected. The associated value is the compound quantitation limit. RPD of the LCS and LCSD exceeds the control limits.

Y - The chromatographic response resembles a typical fuel pattern.

ARCADIS

Figures

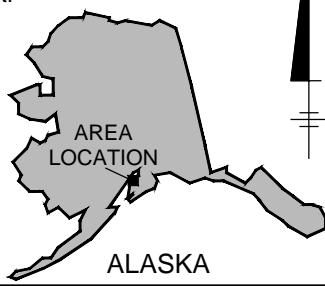


REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., KINAI C-4 NW, ALASKA, 1975, EDITED 1986.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.

XREFS: IMAGES:

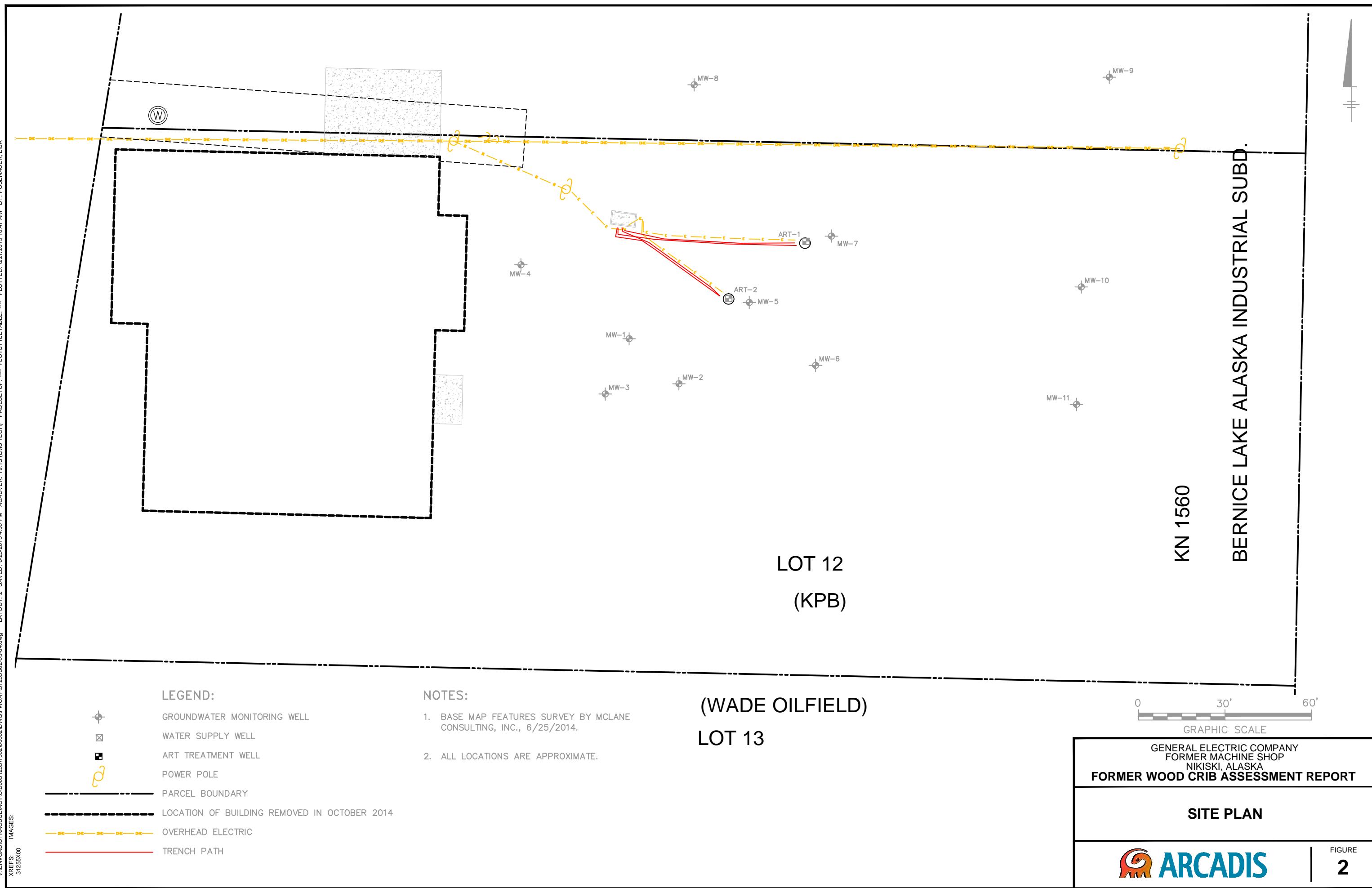


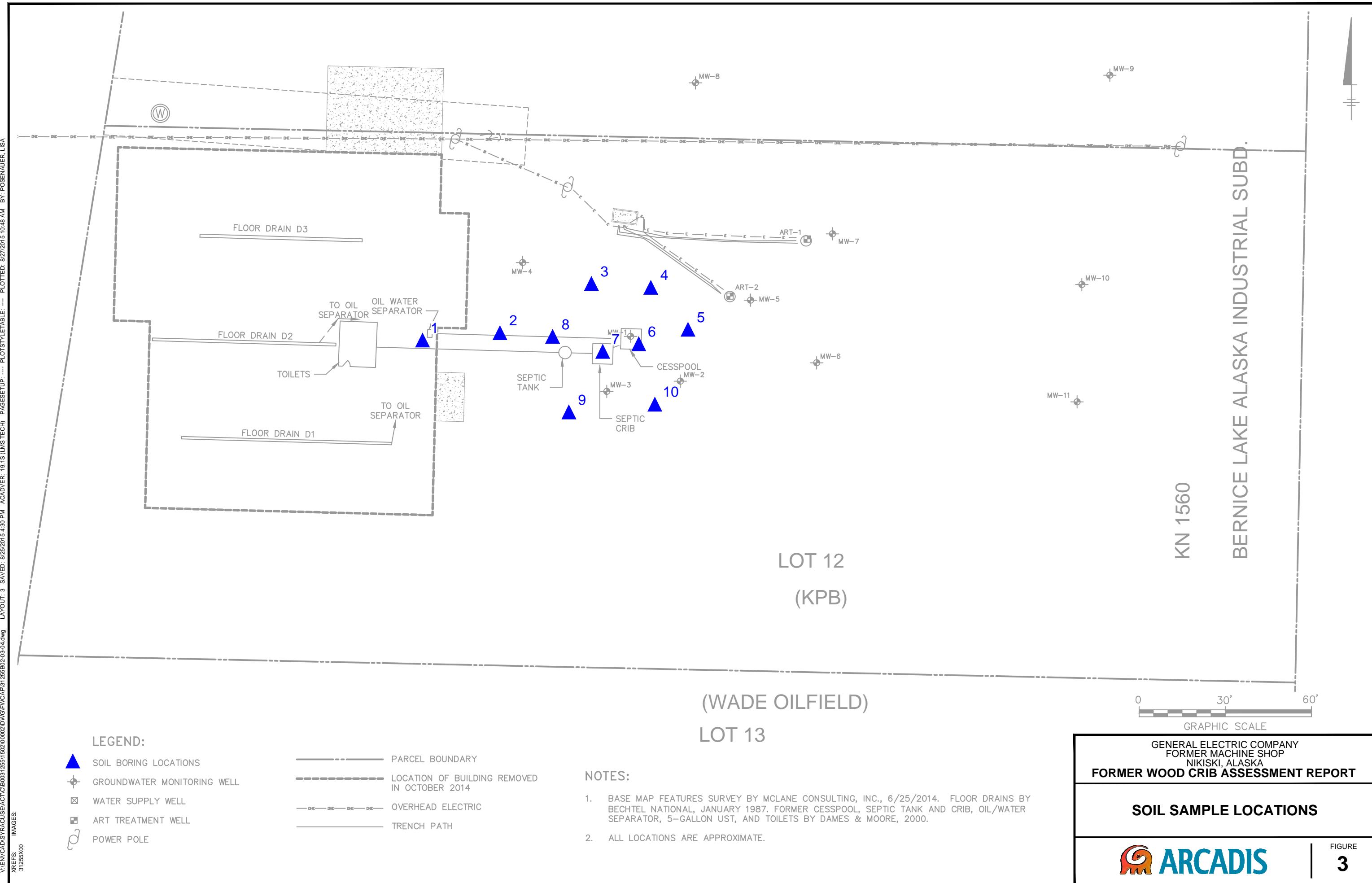
GENERAL ELECTRIC COMPANY
FORMER MACHINE SHOP
NIKISKI, ALASKA
FORMER WOOD CRIB ASSESSMENT REPORT

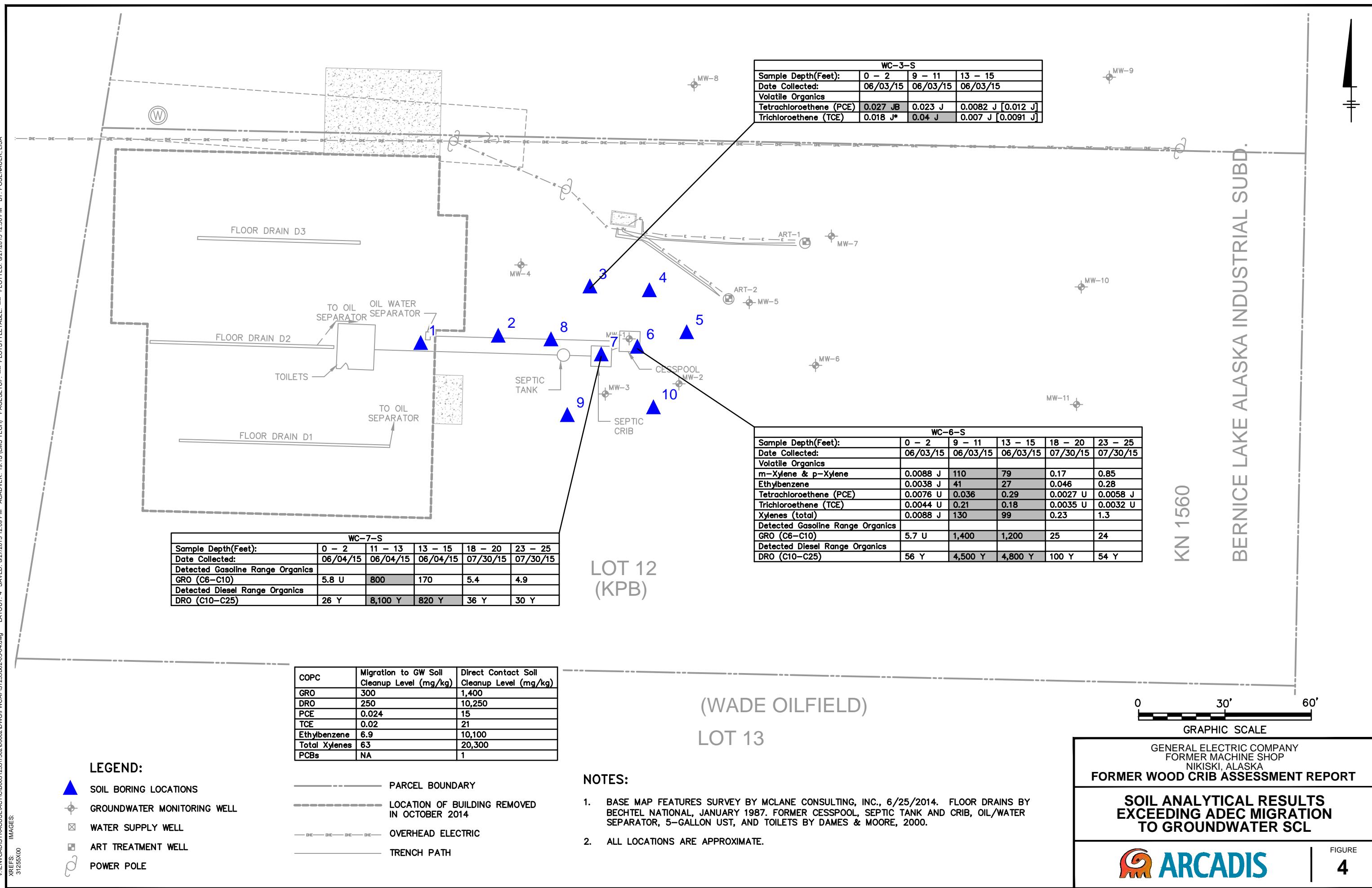
SITE LOCATION MAP

 **ARCADIS**

FIGURE
1







ARCADIS

Appendix A

Soil Boring Logs

PROJECT NO: 31255

GED BY: M. Mac Daniel

DRILLER: Logan Hermans

DRILLING METHOD: GeoProbe

SAMPLING METHOD: GeoProbe

CASING TYPE: -

SLOT SIZE: -

GRAVEL PACK: -

CLIENT: OE

LOCATION: Nikiski, AK

DATE DRILLED: 6/4/15

HOLE DIAMETER: ~3"

HOLE DEPTH: 15

WELL DIAMETER: NA

WELL DEPTH: NA

CASING STICKUP: NA

WC-1

BORING/WELL NO:

PAGE 1 OF 1

Location Map

Well Completion		ELEVATION		NORTHING		EASTING				
Backfill	Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery Interval	Sample	Soil Type	LITHOLOGY / DESCRIPTION
						*				0-15' SAND/GRAVEL mixture, true silt. Small cobbles present. medium to coarse grain sand. brown/orange, damp
						(S1)				
						2				
						3				
						4				
						5	(S2-4)			
						6				
						7				
						8				
						9				
						10				
						11				
						12				
						13				
						14	(S14)			
						15				
						16				
						17				
						18				
						19				
						20				
						21				
						22				

PROJECT NO: 31255

GED BY: Michael Daniel

DRILLER: Lo Hermans

DRILLING METHOD: GP

SAMPLING METHOD: SP

CASING TYPE: -

SLOT SIZE: -

GRAVEL PACK: -

CLIENT: GE

LOCATION: N. Kusk, AK

DATE DRILLED: 6/4/15

HOLE DIAMETER: 3"

HOLE DEPTH: 15'

WELL DIAMETER: -

WELL DEPTH: -

CASING STICKUP: -

BORING/WELL NO: WC-2

PAGE 1 OF 1

Location Map

		ELEVATION		NORTHING			EASTING		
Well Completion Backfill	Casing Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
			D	2.1	VAC	0	1		0-11 SAND/GRVEL mixture, trace silt. Medium to coarse grain sand. brownish orange, damp
			D	0.7	HA	2			
			D	3.3	G	3			
			D	2.2	E	4			
			D	2.3	O	5			
			m	1.3	R	6			
			D	0.7	0	7			
			D	1.0	8	8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			
						21			
						22			

*) Indicates sample was collected

PROJECT NO: 31255

GED BY: m-macDaniel

DRILLER: L-Hermanns

DRILLING METHOD: GP

SAMPLING METHOD: GP

CASING TYPE: -

SLOT SIZE: -

GRAVEL PACK: -

CLIENT: GE

LOCATION: Niski

DATE DRILLED: 6/13/15

HOLE DIAMETER: 3"

HOLE DEPTH: 15'

WELL DIAMETER: -

WELL DEPTH: -

CASING STICKUP: -

WC- 3

BORING/WELL NO:

PAGE 1 OF 1

Location Map

		ELEVATION		NORTHING		EASTING		LITHOLOGY / DESCRIPTION		
Well Completion	Backfill	Static Water Level	Casing	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Interval	Soil Type	
Bentonite	GRANULAR	0.00	100'	AD	0.5	NA	1	5'		<i>0-4' SILT. Some SAND some gravel. Cobbles present; damp, trace organics, brown. Fine organics 0-2'</i>
				AD	0.6	NA to 4'	2			
				AD	1.7	-	3			
				AD	0.5	-	4			
				AD	1.1	-	5			<i>4-7' SAND; medium grain, some silt, some gravel, damp, brown</i>
				AD	0.8	-	6			
				AD	0.5	-	7			
				AD	0.4	to 15'	8			<i>7-11' SILT; some sand, some gravel grading to more sand at 10', brown, damp.</i>
				AD		NA - Gas probe	9			
						NA	10			
							11			<i>11- SAND and GRAVEL mixture. medium to coarse grain sand. damp, brown</i>
							12			
							13			
							14			
							15			
							16			
							17			
							18			
							19			
							20			
							21			
							22			

** Indicates sample was collected*

PROJECT NO: 31255

BED BY: M. macdonald

DRILLER: E. Hermanns

DRILLING METHOD: GP

SAMPLING METHOD: GP

CASING TYPE: -

SLOT SIZE: -

GRAVEL PACK: -

CLIENT: GE

LOCATION: N. kicki

DATE DRILLED: 6/3/05

HOLE DIAMETER: 3"

HOLE DEPTH: 15

WELL DIAMETER: -

WELL DEPTH: -

CASING STICKUP: -

BORING/WELL NO: WC-4

PAGE 1 OF 1

Location Map

		ELEVATION		NORTHING			EASTING		
Well Completion Backfill	Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
			D	0.4	VAC + HA	1			0-3 SILT. Some sand some gravel. bubbles present, trace organics, damp brown
			D	0.7	HA	2			
			D	1.0	G	3			
			D	0.4	E	4			
			D	1.1	R	5			
			D	1.0	R	6			
			M	0.8	E	7			
			W	0.8	E	8			
			D	0.7	S	9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			
						21			
						22			

* (S) indicated sample was collected

PROJECT NO: 31255

GED BY: M. MacDaniel

DRILLER: C Hermans

DRILLING METHOD: CP

SAMPLING METHOD: CP

CASING TYPE: -

SLOT SIZE: -

GRAVEL PACK: -

CLIENT: GE

LOCATION: Nikiski, AK

DATE DRILLED: 6/3/15

HOLE DIAMETER: 3"

HOLE DEPTH: 15'

WELL DIAMETER: -

WELL DEPTH: -

CASING STICKUP: -

WC-5

BORING/WELL NO:

PAGE 1 OF 1

Location Map

		ELEVATION		NORTHING		EASTING			
Well Completion Backfill	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
D		0.5		S 1	0				7 and 0-5' SILT, trace SAND, trace gravel, trace organics (0-2'), damp, brown
D		0.9		HA	2				
D		0.5			3				
D		0.9		G	4				
D		0.9		E	5				
D		0.9		O	6				
D		0.9		P	7				
D		0.9		R	8				
D		0.9		U	9				
W		2.1		B	10				
W		2.2		F	11				
D		3.5		S 10	12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				

* (S) Indicates sample was collected

PROJECT NO: 31255

BED BY: M. Ward Daniel

DRILLER: L. Hermanns

DRILLING METHOD: GP

SAMPLING METHOD: GP

CASING TYPE: -

SLOT SIZE: -

GRAVEL PACK: -

CLIENT: GE

LOCATION: Nikiski AK

DATE DRILLED: 6/2/15

HOLE DIAMETER: 3"

HOLE DEPTH: 15

WELL DIAMETER: -

WELL DEPTH: -

CASING STICKUP: -

WC - b

BORING/WELL NO:

PAGE 1 OF 1

Location Map

		ELEVATION		NORTHING			EASTING		LITHOLOGY / DESCRIPTION	
Well Completion	Backfill	Static Water Level	Casing	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	
				O	0.3	VAC	51			0-2 SILT and SAND, some GRAVEL fine to medium sand, trace organics, damp, Screen
				M	0.6	HA	2			2-9 SILT and SAND, some gravel fine to medium sand, moist, brown
				M	79.1	G E O P R	3			
				m	398.2	O	4			
				m	509.9	B	5			
				m	477.2	E	6			
				w	790.3	S10	7			9-11 SAME AS Previous with staining and HCO.
						514	8			
							9			
							10			
							11			
							12			
							13			
							14			
							15			
							16			
							17			
							18			
							19			
							20			
							21			
							22			

* (S) Indicates sample was collected

PROJECT NO: 91255

GED BY: *M. Ward Daniel L. Hermanns*

DRILLER:

DRILLING METHOD: *GPF*

SAMPLING METHOD: *GP*

CASING TYPE: —

SLOT SIZE: —

GRAVEL PACK: —

CLIENT: GE
LOCATION: *Nikiski, AK*

DATE DRILLED: *6/9/15*

HOLE DIAMETER: *3"*

HOLE DEPTH: *15*

WELL DIAMETER: —

WELL DEPTH: —

CASING STICKUP: —

WC-
BORING/WELL NO: *7*
PAGE 1 OF 1

Location Map

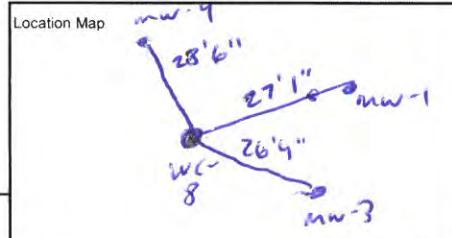
		ELEVATION		NORTHING		EASTING		LITHOLOGY / DESCRIPTION
Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Interval	Soil Type	
		D	0.3	VAC	1			0-8.5 SILT and SAND, some gravel. Fine to coarse sand, damp grading to wet at Pb. S. brown
		m	0.9	HA	2			
		m	0.5	G	3			
		W	62.2	F	4			
		W	117.0	O	5			
		W	305.6	P	6			
		W	81.5	R	7			
				O	8			Grading to wet @ 6.5'
				P	9			
				R	10			
				O	11			
				P	12			
				R	13			
				O	14			
				P	15			
				R	16			
				O	17			
				P	18			
				R	19			
				O	20			
				P	21			
				R	22			

* (S) Indicates sample was collected

PROJECT NO: 31255
 GED BY: M. MacDonald
 DRILLER: C. Hermans
 DRILLING METHOD: CP
 SAMPLING METHOD: SP
 CASING TYPE: —
 SLOT SIZE: —
 GRAVEL PACK: —

CLIENT: GE
 LOCATION: N. Kiski
 DATE DRILLED: 6/19/15
 HOLE DIAMETER: 3"
 HOLE DEPTH: 15'
 WELL DIAMETER: —
 WELL DEPTH: —
 CASING STICKUP: —

WC-
 BORING/WELL NO: 8
 PAGE 1 OF 1



		ELEVATION		NORTHING		EASTING				
Well Completion Backfill	Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery Interval	Sample	Soil Type	LITHOLOGY / DESCRIPTION
				0	0.5	VAC	1			0-5 SILT/SAND some gravel, fine to coarse sand, damp organic debris (0-2')
				0	0.7	HA	3			
				0	0.5	G	6			
				0	1.8	E	7			
				0	1.5	O	8			
				0	2.0	P	9			
				0	2.0	R	10			
				0	2.0	O	11			
				0	2.0	B	12			
				0	2.0	(S)	13			
				0	2.0	(S)	14			
				0	2.0	E	15			
				0	2.0	(S)	16			
				0	2.0		17			
				0	2.0		18			
				0	2.0		19			
				0	2.0		20			
				0	2.0		21			
				0	2.0		22			

* (S) Indicates sample was collected

PROJECT NO:

BED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

LOCATION:

DATE DRILLED:

HOLE DIAMETER:

HOLE DEPTH:

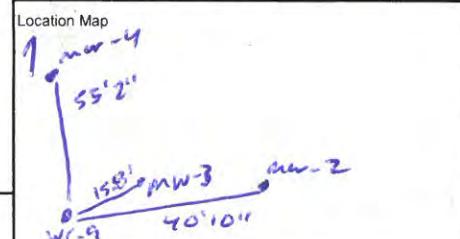
WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

BORING/WELL NO:

PAGE 1 OF 1



Well Completion Backfill	Casing	Static Water Level	ELEVATION		NORTHING		EASTING		LITHOLOGY / DESCRIPTION
			Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Interval	Soil Type	
			D	0.0	VAC	5.1	BBT		0-7 SILT and SAND, some gravel, fine to medium sand, damp, brown trace organic (0-2')
			D	0.0	HA	2			
			D	0.5	G	3			
		m	0.2	O	E	4			
		m	0.0	P	O	5			
		m	0.0	R	O	6			
		m	0.1	B	D	7			
		m	0.0	E	S	8			
		m	0.0			9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			
						21			
						22			

* (S) Indicates Sample was collected

PROJECT NO: 31255
 SED BY: Mr. MacDaniel
 DRILLER: L. Hermanns
 DRILLING METHOD: - GP
 SAMPLING METHOD: Geotube
 CASING TYPE: -
 SLOT SIZE: -
 GRAVEL PACK: -

CLIENT: GE
 LOCATION: 10 Nikiski, AK
 DATE DRILLED: 6/3/15
 HOLE DIAMETER: 3"
 HOLE DEPTH: 15
 WELL DIAMETER: -
 WELL DEPTH: -
 CASING STICKUP: -

BORING/WELL NO: WC-10
 PAGE 1 OF 1

Location Map

Well Completion		ELEVATION		NORTHING		EASTING			
Backfill	Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
			D	1.0	VAC (S)	2	/		0-4 SILT and SAND, trace gravel, fine to medium sand, trace organic, damp, brown, wood debris
			D	0.6	HA	3	/		
			D	1.2		4	/		
			D	1.4	G	5	/		
		M	2.2	R	OR	6	/		4-11 SILT and SAND and GRAVEL mixture. Fine to medium grain sand, damp, grading to moist
		M	4.6	E	(S)10	7	/		
		D	0.9			8	/		
		M	1.8			9	/		
		M	1.0		(S)14	10	/		11-12 SAND and Gravel mixture, medium to coarse grain sand, damp, brown
						11	/		12-15 SILT and SAND and GRAVEL mixture, fine sand, moist, brown
						12	/		
						13	/		
						14	/		
						15	/		
						16			* (S) Indicates Sample was collected.
						17			
						18			
						19			
						20			
						21			
						22			

PROJECT NO: 31255

BED BY: M. Ward Daniel

DRILLER: L. Hermanns

DRILLING METHOD: GP

SAMPLING METHOD: GP

CASING TYPE: -

SLOT SIZE: -

GRAVEL PACK: -

CLIENT: GE

LOCATION: Nikiski AK

DATE DRILLED: 6/2/15 (To 15') 7/30/15 (To 40')

HOLE DIAMETER: 3"

HOLE DEPTH: 15'

WELL DIAMETER: -

WELL DEPTH: -

CASING STICKUP: -

WC - b

BORING/WELL NO:

PAGE 1 OF 1

Location Map

		ELEVATION		NORTHING		EASTING		LITHOLOGY / DESCRIPTION
Well Completion Backfill	Static Water Level Casing	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Type	Soil Type	
				VAC	1			0-2 SILT and SAND, some GRAVEL fine to medium sand, trace organics, damp, brown
		D	0.3	+ HA	2			2-9 SILT and SAND, some gravel fine to medium sand, moist, brown
		m	0.0		3			
		m	79.1	C E O R	4			
		m	398.2	O B	5			
		m	509.9	E	6			
		m	576.9	S10	7			
		m	477.2		8			
		w	790.3		9			
		m	182.4	S14	10			9-11 Same as previous with staining and HClO.
		m	211.3		11			11-15 SAND and GRAVEL mixture, medium to coarse sand, moist grading to wet. Strong HClO, staining
		m	88.2	S19	12			
					13			
					14			
					15			15-30 SAND and GRAVEL mixture, medium to coarse sand, moist,
					16			
					17			
					18			
					19			
					20			
					21			
					22			

15-30

SAND and GRAVEL
mixture, medium to
coarse sand, moist,

* (S) Indicates sample was collected!

PROJECT NO: 21255

GED BY: Mr. Mark Daniel
L. Hermanns

DRILLER: GPF

SAMPLING METHOD: GP

CASING TYPE: -

SLOT SIZE: -

GRAVEL PACK: -

CLIENT: GE
LOCATION: Nikiski AK
DATE DRILLED: 6/1/15 / 7/30/15
HOLE DIAMETER: 3"
HOLE DEPTH: 15'
WELL DIAMETER: -
WELL DEPTH: -
CASING STICKUP: -

WC-7
BORING/WELL NO:
PAGE 1 OF 1

Location Map

		ELEVATION		NORTHING		EASTING		LITHOLOGY / DESCRIPTION
Well Completion Backfill	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery Interval	Soil Type	
		D	0.3	VAC	1			0-8.5 SILT and SAND, some gravel. Fine to coarse sand, damp grading to wet at Pb. S. brown
		m	0.9	HA	2			
		m	0.5	G	3			
		m	62.2	O	4			
		w	112.0	P	5			Graveling to wet @ 6.5'
		w	305.6	R	6			
		w	305.6	O	7			
		w	81.5	B	8			8.8-9 wash layer (rib structure?)
		w	38.1	E	9			9-9.5 SILT; well sorted, some sand
		w	6.5		10			9.8-10 Wood layer.
		w	12.9		11			
			14.4		12			10-15 SILT (SAND) / GRAVEL mixture, fine to coarse sand, wet dark staining and strong HClO, Brown → Black.
			6.3		13			
					14			15-23 FINE SAND / GRAVEL mixture medium to coarse sand, wet staining + HClO, Brown → Black
					15			* (S) Indicates sample was collected
					16			
					17			
					18			
					19			
					20			
					21			
					22			

OBJECT NO: 31255

LOGGED BY: M. MacDaniel

DRILLER: Tim

DRILLING METHOD: GP

SAMPLING METHOD: GP

CASING TYPE: -

SLOT SIZE: -

GRAVEL PACK: -

CLIENT: 60

LOCATION: N. Kiski, AK

DATE DRILLED: 6/3/15

& 7/30/15

HOLE DIAMETER: 3"

HOLE DEPTH: 40

WELL DIAMETER: -

WELL DEPTH: -

CASING STICKUP: -

BORING/WELL NO: WC-7

PAGE 2 OF 2

Location Map

		ELEVATION		NORTHING			EASTING		LITHOLOGY / DESCRIPTION
Well Completion Backfill	Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	
		m	4.5	G	6	23			23-26 SAND trace gravel. coarse to medium sand, well sorted, moist, dark brown
		m	36.6	I	5	24			
		m	10.8	P	0	25			
		m	5.5	O	R	26			
		m	170.1	B	S	27			
		m	7.5	E		28			
		m	5.2			29			
		m	18.9			30			
		m	6.7			31			
		m	5.0			32			
						33			33-35 SAND trace gravel medium to coarse sand, moist, dark brown
						34			
						35			35-40 SAND and gravel mixture, medium to coarse sand, moist dark brown
						36			
						37			
						38			
						39			EOB @ 40'
						40			
						41			
						42			
						43			
						44			

ARCADIS

Appendix B

Field Notes

2015 Soil Investigation

24

6/3/15 GE-N.Kiski 31255

Weather: Rain 50F

Personnel: M. MacDanell + QTA (GeoTek)

Activity: Soil investigation

8:00 Arrive on site. Conduct H+S meeting, review hazards, sign paper work.

8:20 Begin Vac clearance and Hand augering at WC-3.

All locations will be cleared with the vac trailer to 4-5' bgs with intermittent sample collection via hand Auger.

Following vac clearance, borings will be advanced with a geo probe to 15' and samples will be collected as per to work plan. The table on page 25 summarizes sampling conducted on 6/3/15

2015 Soil Investigation

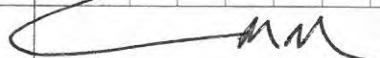
25

6/3/15 GE - N.Kiski 31255

Boring ID	Sample Depths / Time	Comments
WC-3	0-2' bgs / 8:30	
WC	9-11' bgs / 9:25	
	13-15' bgs / 9:45	BD-1 collected
WC-4	0-2' bgs / 10:15	
	9-11' bgs / 10:45	
	13-15' bgs / 11:05	
WC-5	0-2' bgs / 11:20	
	9-11' bgs / 11:50	
	13-15' bgs / 12:05	BD-2 collected
WC-10	0-2' bgs / 14:00	
	9-11' bgs / 14:25	
	13-15' bgs / 14:55	
WC-6	0-2' bgs / 15:05	
	9-11' bgs / 15:30	
	13-15' bgs / 16:00	RCRA + SVOCs collected → HOLD at LAB

16:30 Completed Sampling activities. Boring logs completed for each Sample location. Packed samples in coolers in appropriate bottles and on ice. Cleaned and secured site.

17:30 Mobilized off-site



26

2015 Soil Investigation

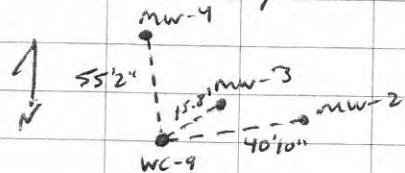
6/4/15 GE N.Kiski

Weather: Rain, 50F

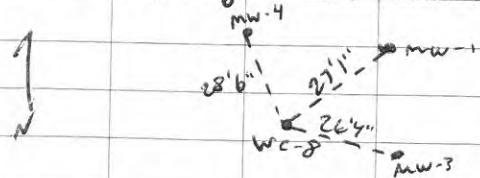
Personnel: M. MacDonald, GeoTek

8:00 Arrive on site. Conduct H&S tailgate meeting, review SOW, review hazards, sign paper work.

8:40 Begin Vac /Geoprobe activities at WC-9. WC-9 was off-set due to unknown anomalies (GPR data) to the position shown below:



WC-8 was also offset due to potential septic tank at Surveyed location:



All other boring location data is available via the survey conducted by GTA on 06/30/15

2015 Soil Investigation

6/4/15 GE N.Kiski

27

Weather: Rain 50F

Personnel: M. MacDonald, GTA

The following table summarizes Sampling activities on 6/4/15:

Boring ID	Sample Depth (ft ss)	TIME	Comments
WC-9	0-2	9:40	Location offset
	9-11	10:00	BD-3
	13-15	10:10	
WC-7	0-2	11:00	
	11-13	11:10	
	13-15	11:35	
WC-8	0-2	12:15	
	9-11	12:35	
	13-15	12:55	
WC-2	0-2	13:15	
	4-6	13:40	
	13-15	14:00	
WC-1	0-2	14:30	
	4-6	15:00	BD-4
	13-15	15:20	

1600 Completed Sampling. Cleaned and secured site. TWO Soil drums (55-gal + 3/4 full) on site.

1700 Mobilized off-site to Anchorage

M.M.

GE, N.Kiski, Alaska

28

7/30/15 2015 Soil Investigation (Deep)

Weather: Sunny 65F

Personnel: ARCADIS (M. MacDonald),

GeoTEK Alaska (T. & R.)

8:30 Meet with GTA, discuss scope of work, review hazards, conduct H+S tailgate, complete H+S class.

8:45 Mobilize to site. GTA prep soil probing equipment.

Begin probing at WC-7.
WC-7 samples & summary

<u>ID & Depth</u>	<u>Time</u>	<u>Comments</u>
WC-7-11-13	10:50	Re-sample (TCP)
WC-7-S-18-20	11:25	BD-1 collected
WC-7-S-23-25	11:45	
WC-7-S-28-30	12:20	
WC-7-S-30-32	12:40	
WC-7-S-38-40	13:10	

1330 Break for lunch. Return to site @ 1420

1430 Set up Geoprobe @ WC-6 and begin probing

GE, N.Kiski, Alaska

29

7/30/15 2015 Soil Investigation (Deep)

Continued.

WC-6 Sample Summary Table:

<u>ID & Depth</u>	<u>TIME</u>	<u>Comments</u>
WC-6-S-9-11	1420	
WC-6-S-18-20	1420	
WC-6-S-23-25	1500	
WC-6-S-28-30	1630	No Recovery - off-set 1"
WC-6-S-33-35	1720	No Recovery - off-set 1"
WC-6-S-38-40	1600	

1520 No Recovery from Interval 25-30 and 30-35. Boring was off-set 1" and the missing intervals were re-probed.

1740 Geo probe work complete. GTA cleans and secures site. Two soil drums on site.

1800 ARCADIS and GTA mobilized off-site

ARCADIS

Appendix C

Laboratory Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle

5755 8th Street East

Tacoma, WA 98424

Tel: (253)922-2310

TestAmerica Job ID: 580-50580-1

Client Project/Site: GE- Nikiski

Revision: 1

For:

ARCADIS U.S. Inc

4915 Prospectus Drive

Suite F

Durham, North Carolina 27713

Attn: Mr. Matthew Pelton

Kristine D. Allen

Authorized for release by:

8/10/2015 3:50:35 PM

Kristine Allen, Manager of Project Management

(253)248-4970

kristine.allen@testamericainc.com

LINKS

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results through

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The
Expert

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www.testamericainc.com

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

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

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QC Sample Results	81
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Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Job ID: 580-50580-1

Laboratory: TestAmerica Seattle

Narrative

Report revised 8/10/15 to report the VOCs to the MDL.

Job Narrative 580-50580-1

Comments

No additional comments.

Receipt

The samples were received on 6/6/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.3° C, 1.9° C and 4.3° C.

Receipt Exceptions

The following samples were received at the laboratory without the time written on the sample labels. The time was recorded on the Chain-of-Custody: WC-1-S-4-6 (580-50580-2) and WC-2-S-13-15 (580-50580-6)

The time on the Chain-of-Custody (COC) associated with the following sample does not match the time on the sample label: WC-1-S-13-15 (580-50580-3). The time on the COC was used at login.

GC/MS VOA

Method(s) 8260B: Several compounds were detected in the method blank, MB 580-191616/1-A and MB 580-191891/1-A above the method detection limit but below the reporting limit. The values should be considered an estimate and have been "J" qualified.

Method(s) 8260B: The laboratory control sample (LCS) for batch preparation batch 580-191616 and analytical batch 580-191458 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The following samples were re-analyzed due to the likelihood of carryover from a previously analyzed heavily contaminated sample in the original analysis: WC-7-S-0-2 (580-50580-19).

The surrogate 4-Bromofluorobenzene recovery for the following sample was outside control limits: WC-7-S-11-13 (580-50580-20). Evidence of matrix interference is present: see chromatogram. The sample is being re-analyzed at a dilution for target compounds exceeding the calibration range.

Method(s) 8260B: The following samples was diluted to bring the concentration of target analytes within the calibration range: WC-6-S-9-11 (580-50580-17), WC-6-S-13-15 (580-50580-18) and WC-7-S-11-13 (580-50580-20). Elevated reporting limits (RLs) are provided.

Method(s) AK101: The following sample was diluted to bring the concentration of target analytes within the calibration range: WC-6-S-9-11 (580-50580-17). Elevated reporting limits (RLs) are provided.

Method(s) AK101: Surrogate recovery for the following samples was outside control limits: WC-6-S-13-15 (580-50580-18) and WC-7-S-11-13 (580-50580-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) AK101: Surrogate recovery for the following sample was outside control limits: WC-7-S-13-15 (580-50580-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method(s) 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: WC-7-S-13-15 (580-50580-21) and (MB 580-191601/1-A). Lot# H25604

Method(s) 8082: The following sample(s) contained more than one Aroclor (PCB 1254 and 1260) with insufficient separation to quantify

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Job ID: 580-50580-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

individually. The PCBs present are quantified as the predominant Aroclor: WC-6-S-9-11 (580-50580-17), WC-6-S-13-15 (580-50580-18) and WC-7-S-11-13 (580-50580-20).

Method(s) AK102 & 103: In analytical batch 580-191824, the following samples from preparation batch 580-191627 contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: WC-7-S-13-15 (580-50580-21), WC-9-S-0-2 (580-50580-25), WC-9-S-9-11 (580-50580-26), WC-9-S-13-15 (580-50580-27), WC-10-S-0-2 (580-50580-28), WC-10-S-9-11 (580-50580-29), WC-10-S-13-15 (580-50580-30) and BD-3-S (580-50580-33).

Method(s) AK102 & 103: In analytical batch 580-191696, the following samples from preparation batch 580-191612 contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: WC-1-S-0-2 (580-50580-1), WC-3-S-0-2 (580-50580-7), WC-3-S-9-11 (580-50580-8), WC-4-S-0-2 (580-50580-10), WC-4-S-9-11 (580-50580-12), WC-5-S-0-2 (580-50580-14), WC-6-S-0-2 (580-50580-16) and WC-7-S-0-2 (580-50580-19).

Method(s) AK102 & 103: in analytical batch 580-191696, the following samples from preparation batch 580-191612 contained a hydrocarbon pattern in the diesel range; however, the elution pattern was a complex mixture of both earlier and later hydrocarbon fuel envelopes than the typical diesel fuel pattern used by the laboratory for quantitative purposes: WC-6-S-9-11 (580-50580-17), WC-6-S-13-15 (580-50580-18) and WC-7-S-11-13 (580-50580-20).

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

General Chemistry

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

Organic Prep

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

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.
P	The %RPD between the primary and confirmation column/detector is >40%. The higher value has been reported

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

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

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-1-S-0-2

Date Collected: 06/04/15 14:30

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-1

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			06/13/15 18:10	1
Percent Moisture	4.6		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-1-S-0-2

Date Collected: 06/04/15 14:30
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-1

Matrix: Solid

Percent Solids: 95.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	6.6	J B *	44	2.2	ug/Kg	✉	06/09/15 11:45	06/10/15 06:48	1
m-Xylene & p-Xylene	19	J B *	44	3.3	ug/Kg	✉	06/09/15 11:45	06/10/15 06:48	1
o-Xylene	25	J *	44	3.3	ug/Kg	✉	06/09/15 11:45	06/10/15 06:48	1
Tetrachloroethene (PCE)	17	J B	22	5.9	ug/Kg	✉	06/09/15 11:45	06/10/15 06:48	1
Trichloroethene (TCE)	7.9	J *	27	3.4	ug/Kg	✉	06/09/15 11:45	06/10/15 06:48	1
Xylenes, Total	44	B *	44	3.3	ug/Kg	✉	06/09/15 11:45	06/10/15 06:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	06/09/15 11:45	06/10/15 06:48	1
Dibromofluoromethane (Surr)	98		75 - 132	06/09/15 11:45	06/10/15 06:48	1
1,2-Dichloroethane-d4 (Surr)	94		71 - 136	06/09/15 11:45	06/10/15 06:48	1
Toluene-d8 (Surr)	100		80 - 120	06/09/15 11:45	06/10/15 06:48	1
Trifluorotoluene (Surr)	96		65 - 140	06/09/15 11:45	06/10/15 06:48	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.4		mg/Kg	✉	06/09/15 14:09	06/09/15 23:51	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	104		50 - 150	06/09/15 14:09	06/09/15 23:51	1			
4-Bromofluorobenzene (Surr)	93		50 - 150	06/09/15 14:09	06/09/15 23:51	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 16:01	1
PCB-1221	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 16:01	1
PCB-1232	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 16:01	1
PCB-1242	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 16:01	1
PCB-1248	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 16:01	1
PCB-1254	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 16:01	1
PCB-1260	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 16:01	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	80		45 - 135	06/09/15 09:37	06/12/15 16:01	1			
DCB Decachlorobiphenyl	96		50 - 140	06/09/15 09:37	06/12/15 16:01	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	20	Y	20		mg/Kg	✉	06/09/15 10:58	06/10/15 08:06	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	74		50 - 150	06/09/15 10:58	06/10/15 08:06	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-1-S-4-6

Date Collected: 06/04/15 15:00
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-2

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			06/13/15 18:10	1
Percent Moisture	5.1		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-1-S-4-6

Date Collected: 06/04/15 15:00
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-2

Matrix: Solid

Percent Solids: 94.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.0	J B *	49	2.4	ug/Kg	✉	06/09/15 11:45	06/10/15 07:20	1
m-Xylene & p-Xylene	10	J B *	49	3.7	ug/Kg	✉	06/09/15 11:45	06/10/15 07:20	1
o-Xylene	14	J *	49	3.7	ug/Kg	✉	06/09/15 11:45	06/10/15 07:20	1
Tetrachloroethene (PCE)	14	J B	24	6.5	ug/Kg	✉	06/09/15 11:45	06/10/15 07:20	1
Trichloroethene (TCE)	7.7	J *	29	3.8	ug/Kg	✉	06/09/15 11:45	06/10/15 07:20	1
Xylenes, Total	24	J B *	49	3.7	ug/Kg	✉	06/09/15 11:45	06/10/15 07:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	06/09/15 11:45	06/10/15 07:20	1
Dibromofluoromethane (Surr)	99		75 - 132	06/09/15 11:45	06/10/15 07:20	1
1,2-Dichloroethane-d4 (Surr)	96		71 - 136	06/09/15 11:45	06/10/15 07:20	1
Toluene-d8 (Surr)	100		80 - 120	06/09/15 11:45	06/10/15 07:20	1
Trifluorotoluene (Surr)	96		65 - 140	06/09/15 11:45	06/10/15 07:20	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.9		mg/Kg	✉	06/09/15 14:09	06/10/15 00:22	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	111		50 - 150	06/09/15 14:09	06/10/15 00:22	1			
4-Bromofluorobenzene (Surr)	94		50 - 150	06/09/15 14:09	06/10/15 00:22	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 16:51	1
PCB-1221	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 16:51	1
PCB-1232	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 16:51	1
PCB-1242	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 16:51	1
PCB-1248	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 16:51	1
PCB-1254	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 16:51	1
PCB-1260	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 16:51	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	77		45 - 135	06/09/15 09:37	06/12/15 16:51	1			
DCB Decachlorobiphenyl	94		50 - 140	06/09/15 09:37	06/12/15 16:51	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		20		mg/Kg	✉	06/09/15 10:58	06/10/15 08:54	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	75		50 - 150	06/09/15 10:58	06/10/15 08:54	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-1-S-13-15

Date Collected: 06/04/15 15:20

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-3

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			06/13/15 18:10	1
Percent Moisture	4.9		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-1-S-13-15

Date Collected: 06/04/15 15:20
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-3

Matrix: Solid
Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	*	47	2.4	ug/Kg	✉	06/09/15 11:45	06/16/15 15:18	1
m-Xylene & p-Xylene	ND	*	47	3.5	ug/Kg	✉	06/09/15 11:45	06/16/15 15:18	1
o-Xylene	ND	*	47	3.5	ug/Kg	✉	06/09/15 11:45	06/16/15 15:18	1
Tetrachloroethene (PCE)	ND		24	6.3	ug/Kg	✉	06/09/15 11:45	06/16/15 15:18	1
Trichloroethene (TCE)	ND	*	28	3.7	ug/Kg	✉	06/09/15 11:45	06/16/15 15:18	1
Xylenes, Total	ND	*	47	3.5	ug/Kg	✉	06/09/15 11:45	06/16/15 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120				06/09/15 11:45	06/16/15 15:18	1
Dibromofluoromethane (Surr)	93		75 - 132				06/09/15 11:45	06/16/15 15:18	1
1,2-Dichloroethane-d4 (Surr)	88		71 - 136				06/09/15 11:45	06/16/15 15:18	1
Toluene-d8 (Surr)	103		80 - 120				06/09/15 11:45	06/16/15 15:18	1
Trifluorotoluene (Surr)	96		65 - 140				06/09/15 11:45	06/16/15 15:18	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.7		mg/Kg	✉	06/09/15 14:09	06/10/15 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	111		50 - 150				06/09/15 14:09	06/10/15 00:53	1
4-Bromofluorobenzene (Surr)	96		50 - 150				06/09/15 14:09	06/10/15 00:53	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 17:07	1
PCB-1221	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 17:07	1
PCB-1232	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 17:07	1
PCB-1242	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 17:07	1
PCB-1248	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 17:07	1
PCB-1254	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 17:07	1
PCB-1260	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		45 - 135				06/09/15 09:37	06/12/15 17:07	1
DCB Decachlorobiphenyl	91		50 - 140				06/09/15 09:37	06/12/15 17:07	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		20		mg/Kg	✉	06/09/15 10:58	06/10/15 09:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		50 - 150				06/09/15 10:58	06/10/15 09:10	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-2-S-0-2

Date Collected: 06/04/15 13:15

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-4

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			06/13/15 18:10	1
Percent Moisture	4.6		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-2-S-0-2

Date Collected: 06/04/15 13:15
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-4

Matrix: Solid

Percent Solids: 95.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	*	48	2.4	ug/Kg	✉	06/09/15 11:45	06/16/15 15:49	1
m-Xylene & p-Xylene	ND	*	48	3.6	ug/Kg	✉	06/09/15 11:45	06/16/15 15:49	1
o-Xylene	ND	*	48	3.6	ug/Kg	✉	06/09/15 11:45	06/16/15 15:49	1
Tetrachloroethene (PCE)	ND		24	6.3	ug/Kg	✉	06/09/15 11:45	06/16/15 15:49	1
Trichloroethene (TCE)	ND	*	29	3.7	ug/Kg	✉	06/09/15 11:45	06/16/15 15:49	1
Xylenes, Total	ND	*	48	3.6	ug/Kg	✉	06/09/15 11:45	06/16/15 15:49	1

Surrogate

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 120	06/09/15 11:45	06/16/15 15:49	1
Dibromofluoromethane (Surr)	89		75 - 132	06/09/15 11:45	06/16/15 15:49	1
1,2-Dichloroethane-d4 (Surr)	90		71 - 136	06/09/15 11:45	06/16/15 15:49	1
Toluene-d8 (Surr)	102		80 - 120	06/09/15 11:45	06/16/15 15:49	1
Trifluorotoluene (Surr)	133		65 - 140	06/09/15 11:45	06/16/15 15:49	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.8		mg/Kg	✉	06/09/15 14:09	06/10/15 01:24	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	108		50 - 150	06/09/15 14:09	06/10/15 01:24	1			
4-Bromofluorobenzene (Surr)	95		50 - 150	06/09/15 14:09	06/10/15 01:24	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 17:24	1
PCB-1221	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 17:24	1
PCB-1232	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 17:24	1
PCB-1242	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 17:24	1
PCB-1248	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 17:24	1
PCB-1254	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 17:24	1
PCB-1260	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 17:24	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	80		45 - 135	06/09/15 09:37	06/12/15 17:24	1			
DCB Decachlorobiphenyl	97		50 - 140	06/09/15 09:37	06/12/15 17:24	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		19		mg/Kg	✉	06/09/15 10:58	06/10/15 09:26	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	75		50 - 150	06/09/15 10:58	06/10/15 09:26	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-2-S-4-6

Date Collected: 06/04/15 13:40
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-5

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10		%			06/13/15 18:10	1
Percent Moisture	6.2		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-2-S-4-6

Date Collected: 06/04/15 13:40
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-5

Matrix: Solid

Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	*	44	2.2	ug/Kg	✉	06/09/15 11:45	06/16/15 16:21	1
m-Xylene & p-Xylene	ND	*	44	3.3	ug/Kg	✉	06/09/15 11:45	06/16/15 16:21	1
o-Xylene	ND	*	44	3.3	ug/Kg	✉	06/09/15 11:45	06/16/15 16:21	1
Tetrachloroethene (PCE)	ND		22	5.8	ug/Kg	✉	06/09/15 11:45	06/16/15 16:21	1
Trichloroethene (TCE)	ND	*	26	3.4	ug/Kg	✉	06/09/15 11:45	06/16/15 16:21	1
Xylenes, Total	ND	*	44	3.3	ug/Kg	✉	06/09/15 11:45	06/16/15 16:21	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120	06/09/15 11:45	06/16/15 16:21	1
Dibromofluoromethane (Surr)	95		75 - 132	06/09/15 11:45	06/16/15 16:21	1
1,2-Dichloroethane-d4 (Surr)	93		71 - 136	06/09/15 11:45	06/16/15 16:21	1
Toluene-d8 (Surr)	101		80 - 120	06/09/15 11:45	06/16/15 16:21	1
Trifluorotoluene (Surr)	91		65 - 140	06/09/15 11:45	06/16/15 16:21	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.4		mg/Kg	✉	06/09/15 14:09	06/10/15 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	113		50 - 150				06/09/15 14:09	06/10/15 01:55	1
4-Bromofluorobenzene (Surr)	94		50 - 150				06/09/15 14:09	06/10/15 01:55	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 17:41	1
PCB-1221	ND		0.012		mg/Kg	✉	06/09/15 09:37	06/12/15 17:41	1
PCB-1232	ND		0.012		mg/Kg	✉	06/09/15 09:37	06/12/15 17:41	1
PCB-1242	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 17:41	1
PCB-1248	ND		0.012		mg/Kg	✉	06/09/15 09:37	06/12/15 17:41	1
PCB-1254	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 17:41	1
PCB-1260	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 17:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		45 - 135				06/09/15 09:37	06/12/15 17:41	1
DCB Decachlorobiphenyl	88		50 - 140				06/09/15 09:37	06/12/15 17:41	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		20		mg/Kg	✉	06/09/15 10:58	06/10/15 09:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150				06/09/15 10:58	06/10/15 09:43	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-2-S-13-15

Date Collected: 06/04/15 14:00

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-6

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10		%			06/13/15 18:10	1
Percent Moisture	5.5		0.10		%			06/13/15 18:10	1

1

2

3

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11

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-2-S-13-15

Date Collected: 06/04/15 14:00
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-6

Matrix: Solid

Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	*	48	2.4	ug/Kg	✉	06/09/15 11:45	06/16/15 16:52	1
m-Xylene & p-Xylene	ND	*	48	3.6	ug/Kg	✉	06/09/15 11:45	06/16/15 16:52	1
o-Xylene	ND	*	48	3.6	ug/Kg	✉	06/09/15 11:45	06/16/15 16:52	1
Tetrachloroethene (PCE)	ND		24	6.4	ug/Kg	✉	06/09/15 11:45	06/16/15 16:52	1
Trichloroethene (TCE)	ND	*	29	3.7	ug/Kg	✉	06/09/15 11:45	06/16/15 16:52	1
Xylenes, Total	ND	*	48	3.6	ug/Kg	✉	06/09/15 11:45	06/16/15 16:52	1

Surrogate

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	06/09/15 11:45	06/16/15 16:52	1
Dibromofluoromethane (Surr)	89		75 - 132	06/09/15 11:45	06/16/15 16:52	1
1,2-Dichloroethane-d4 (Surr)	88		71 - 136	06/09/15 11:45	06/16/15 16:52	1
Toluene-d8 (Surr)	103		80 - 120	06/09/15 11:45	06/16/15 16:52	1
Trifluorotoluene (Surr)	109		65 - 140	06/09/15 11:45	06/16/15 16:52	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.8		mg/Kg	✉	06/09/15 14:09	06/10/15 02:26	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	105		50 - 150	06/09/15 14:09	06/10/15 02:26	1			
4-Bromofluorobenzene (Surr)	95		50 - 150	06/09/15 14:09	06/10/15 02:26	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 18:31	1
PCB-1221	ND		0.012		mg/Kg	✉	06/09/15 09:37	06/12/15 18:31	1
PCB-1232	ND		0.012		mg/Kg	✉	06/09/15 09:37	06/12/15 18:31	1
PCB-1242	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 18:31	1
PCB-1248	ND		0.012		mg/Kg	✉	06/09/15 09:37	06/12/15 18:31	1
PCB-1254	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 18:31	1
PCB-1260	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 18:31	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	79		45 - 135	06/09/15 09:37	06/12/15 18:31	1			
DCB Decachlorobiphenyl	99		50 - 140	06/09/15 09:37	06/12/15 18:31	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		21		mg/Kg	✉	06/09/15 10:58	06/10/15 10:15	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	73		50 - 150	06/09/15 10:58	06/10/15 10:15	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-3-S-0-2

Date Collected: 06/03/15 08:30
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-7

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78		0.10		%			06/13/15 18:10	1
Percent Moisture	22		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-3-S-0-2

Date Collected: 06/03/15 08:30
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-7

Matrix: Solid

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	3.6	J B *	63	3.2	ug/Kg	✉	06/09/15 11:45	06/12/15 19:29	1
m-Xylene & p-Xylene	6.5	J B *	63	4.8	ug/Kg	✉	06/09/15 11:45	06/12/15 19:29	1
o-Xylene	ND *		63	4.8	ug/Kg	✉	06/09/15 11:45	06/12/15 19:29	1
Tetrachloroethene (PCE)	27	J B	32	8.4	ug/Kg	✉	06/09/15 11:45	06/12/15 19:29	1
Trichloroethene (TCE)	18	J *	38	4.9	ug/Kg	✉	06/09/15 11:45	06/12/15 19:29	1
Xylenes, Total	6.5	J B *	63	4.8	ug/Kg	✉	06/09/15 11:45	06/12/15 19:29	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	06/09/15 11:45	06/12/15 19:29	1
Dibromofluoromethane (Surr)	99		75 - 132	06/09/15 11:45	06/12/15 19:29	1
1,2-Dichloroethane-d4 (Surr)	102		71 - 136	06/09/15 11:45	06/12/15 19:29	1
Toluene-d8 (Surr)	101		80 - 120	06/09/15 11:45	06/12/15 19:29	1
Trifluorotoluene (Surr)	109		65 - 140	06/09/15 11:45	06/12/15 19:29	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		6.3	mg/Kg		✉	06/09/15 14:09	06/10/15 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	121		50 - 150				06/09/15 14:09	06/10/15 02:57	1
4-Bromofluorobenzene (Surr)	95		50 - 150				06/09/15 14:09	06/10/15 02:57	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.012	mg/Kg		✉	06/09/15 09:37	06/12/15 18:48	1
PCB-1221	ND		0.014	mg/Kg		✉	06/09/15 09:37	06/12/15 18:48	1
PCB-1232	ND		0.014	mg/Kg		✉	06/09/15 09:37	06/12/15 18:48	1
PCB-1242	ND		0.012	mg/Kg		✉	06/09/15 09:37	06/12/15 18:48	1
PCB-1248	ND		0.014	mg/Kg		✉	06/09/15 09:37	06/12/15 18:48	1
PCB-1254	ND		0.012	mg/Kg		✉	06/09/15 09:37	06/12/15 18:48	1
PCB-1260	ND		0.012	mg/Kg		✉	06/09/15 09:37	06/12/15 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		45 - 135				06/09/15 09:37	06/12/15 18:48	1
DCB Decachlorobiphenyl	93		50 - 140				06/09/15 09:37	06/12/15 18:48	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	31	Y	25	mg/Kg		✉	06/09/15 10:58	06/10/15 10:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	73		50 - 150				06/09/15 10:58	06/10/15 10:31	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-3-S-9-11

Date Collected: 06/03/15 09:25

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-8

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	74		0.10		%			06/13/15 18:10	1
Percent Moisture	26		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-3-S-9-11

Date Collected: 06/03/15 09:25

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-8

Matrix: Solid

Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	3.9	J	69	3.4	ug/Kg	✉	06/10/15 12:04	06/10/15 18:17	1
m-Xylene & p-Xylene	36	J	69	5.2	ug/Kg	✉	06/10/15 12:04	06/10/15 18:17	1
o-Xylene	38	J	69	5.2	ug/Kg	✉	06/10/15 12:04	06/10/15 18:17	1
Tetrachloroethene (PCE)	23	J	34	9.1	ug/Kg	✉	06/10/15 12:04	06/10/15 18:17	1
Trichloroethene (TCE)	40	J	41	5.3	ug/Kg	✉	06/10/15 12:04	06/10/15 18:17	1
Xylenes, Total	74		69	5.2	ug/Kg	✉	06/10/15 12:04	06/10/15 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	06/10/15 12:04	06/10/15 18:17	1
Dibromofluoromethane (Surr)	100		75 - 132	06/10/15 12:04	06/10/15 18:17	1
1,2-Dichloroethane-d4 (Surr)	102		71 - 136	06/10/15 12:04	06/10/15 18:17	1
Toluene-d8 (Surr)	99		80 - 120	06/10/15 12:04	06/10/15 18:17	1
Trifluorotoluene (Surr)	106		65 - 140	06/10/15 12:04	06/10/15 18:17	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		6.9		mg/Kg	✉	06/09/15 14:09	06/10/15 03:58	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	115		50 - 150	06/09/15 14:09	06/10/15 03:58	1			
4-Bromofluorobenzene (Surr)	91		50 - 150	06/09/15 14:09	06/10/15 03:58	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 19:04	1
PCB-1221	ND		0.015		mg/Kg	✉	06/09/15 09:37	06/12/15 19:04	1
PCB-1232	ND		0.015		mg/Kg	✉	06/09/15 09:37	06/12/15 19:04	1
PCB-1242	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 19:04	1
PCB-1248	ND		0.015		mg/Kg	✉	06/09/15 09:37	06/12/15 19:04	1
PCB-1254	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 19:04	1
PCB-1260	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 19:04	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	74		45 - 135	06/09/15 09:37	06/12/15 19:04	1			
DCB Decachlorobiphenyl	80		50 - 140	06/09/15 09:37	06/12/15 19:04	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	62	Y	26		mg/Kg	✉	06/09/15 10:58	06/10/15 10:47	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	72		50 - 150	06/09/15 10:58	06/10/15 10:47	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-3-S-13-15

Date Collected: 06/03/15 09:45

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-9

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96		0.10		%			06/13/15 18:10	1
Percent Moisture	3.8		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-3-S-13-15

Date Collected: 06/03/15 09:45

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-9

Matrix: Solid

Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	3.0	J	43	2.2	ug/Kg	✉	06/10/15 12:04	06/10/15 23:13	1
m-Xylene & p-Xylene	5.8	J	43	3.3	ug/Kg	✉	06/10/15 12:04	06/10/15 23:13	1
o-Xylene	4.8	J	43	3.3	ug/Kg	✉	06/10/15 12:04	06/10/15 23:13	1
Tetrachloroethene (PCE)	8.2	J	22	5.7	ug/Kg	✉	06/10/15 12:04	06/10/15 23:13	1
Trichloroethene (TCE)	7.0	J	26	3.4	ug/Kg	✉	06/10/15 12:04	06/10/15 23:13	1
Xylenes, Total	11	J	43	3.3	ug/Kg	✉	06/10/15 12:04	06/10/15 23:13	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	06/10/15 12:04	06/10/15 23:13	1
Dibromofluoromethane (Surr)	99		75 - 132	06/10/15 12:04	06/10/15 23:13	1
1,2-Dichloroethane-d4 (Surr)	102		71 - 136	06/10/15 12:04	06/10/15 23:13	1
Toluene-d8 (Surr)	101		80 - 120	06/10/15 12:04	06/10/15 23:13	1
Trifluorotoluene (Surr)	120		65 - 140	06/10/15 12:04	06/10/15 23:13	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.3		mg/Kg	✉	06/09/15 14:09	06/10/15 04:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	119		50 - 150				06/09/15 14:09	06/10/15 04:29	1
4-Bromofluorobenzene (Surr)	93		50 - 150				06/09/15 14:09	06/10/15 04:29	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 19:21	1
PCB-1221	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 19:21	1
PCB-1232	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 19:21	1
PCB-1242	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 19:21	1
PCB-1248	ND		0.011		mg/Kg	✉	06/09/15 09:37	06/12/15 19:21	1
PCB-1254	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 19:21	1
PCB-1260	ND		0.010		mg/Kg	✉	06/09/15 09:37	06/12/15 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		45 - 135				06/09/15 09:37	06/12/15 19:21	1
DCB Decachlorobiphenyl	92		50 - 140				06/09/15 09:37	06/12/15 19:21	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		21		mg/Kg	✉	06/09/15 10:58	06/10/15 11:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150				06/09/15 10:58	06/10/15 11:04	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-4-S-0-2

Lab Sample ID: 580-50580-10

Matrix: Solid

Date Collected: 06/03/15 10:15
Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79		0.10		%			06/13/15 18:10	1
Percent Moisture	21		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-4-S-0-2

Date Collected: 06/03/15 10:15

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-10

Matrix: Solid

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		62	3.1	ug/Kg	⌚	06/10/15 12:04	06/10/15 23:46	1
m-Xylene & p-Xylene	5.5 J		62	4.7	ug/Kg	⌚	06/10/15 12:04	06/10/15 23:46	1
o-Xylene	ND		62	4.7	ug/Kg	⌚	06/10/15 12:04	06/10/15 23:46	1
Tetrachloroethene (PCE)	ND		31	8.3	ug/Kg	⌚	06/10/15 12:04	06/10/15 23:46	1
Trichloroethene (TCE)	ND		37	4.8	ug/Kg	⌚	06/10/15 12:04	06/10/15 23:46	1
Xylenes, Total	5.5 J		62	4.7	ug/Kg	⌚	06/10/15 12:04	06/10/15 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	06/10/15 12:04	06/10/15 23:46	1
Dibromofluoromethane (Surr)	100		75 - 132	06/10/15 12:04	06/10/15 23:46	1
1,2-Dichloroethane-d4 (Surr)	98		71 - 136	06/10/15 12:04	06/10/15 23:46	1
Toluene-d8 (Surr)	100		80 - 120	06/10/15 12:04	06/10/15 23:46	1
Trifluorotoluene (Surr)	116		65 - 140	06/10/15 12:04	06/10/15 23:46	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		6.2		mg/Kg	⌚	06/09/15 14:09	06/10/15 05:00	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	112		50 - 150	06/09/15 14:09	06/10/15 05:00	1			
4-Bromofluorobenzene (Surr)	93		50 - 150	06/09/15 14:09	06/10/15 05:00	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.012		mg/Kg	⌚	06/09/15 09:37	06/12/15 19:37	1
PCB-1221	ND		0.014		mg/Kg	⌚	06/09/15 09:37	06/12/15 19:37	1
PCB-1232	ND		0.014		mg/Kg	⌚	06/09/15 09:37	06/12/15 19:37	1
PCB-1242	ND		0.012		mg/Kg	⌚	06/09/15 09:37	06/12/15 19:37	1
PCB-1248	ND		0.014		mg/Kg	⌚	06/09/15 09:37	06/12/15 19:37	1
PCB-1254	ND		0.012		mg/Kg	⌚	06/09/15 09:37	06/12/15 19:37	1
PCB-1260	ND		0.012		mg/Kg	⌚	06/09/15 09:37	06/12/15 19:37	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	78		45 - 135	06/09/15 09:37	06/12/15 19:37	1			
DCB Decachlorobiphenyl	89		50 - 140	06/09/15 09:37	06/12/15 19:37	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	26	Y	24		mg/Kg	⌚	06/09/15 10:58	06/10/15 11:20	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	64		50 - 150	06/09/15 10:58	06/10/15 11:20	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-4-S-13-15

Lab Sample ID: 580-50580-11

Date Collected: 06/03/15 11:05

Matrix: Solid

Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96		0.10		%			06/13/15 18:10	1
Percent Moisture	4.5		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-4-S-13-15

Date Collected: 06/03/15 11:05

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-11

Matrix: Solid

Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	6.4	J	44	2.2	ug/Kg	✉	06/10/15 12:04	06/11/15 00:19	1
m-Xylene & p-Xylene	16	J	44	3.3	ug/Kg	✉	06/10/15 12:04	06/11/15 00:19	1
o-Xylene	7.3	J	44	3.3	ug/Kg	✉	06/10/15 12:04	06/11/15 00:19	1
Tetrachloroethene (PCE)	7.1	J	22	5.8	ug/Kg	✉	06/10/15 12:04	06/11/15 00:19	1
Trichloroethene (TCE)	14	J	26	3.4	ug/Kg	✉	06/10/15 12:04	06/11/15 00:19	1
Xylenes, Total	23	J	44	3.3	ug/Kg	✉	06/10/15 12:04	06/11/15 00:19	1

Surrogate

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	06/10/15 12:04	06/11/15 00:19	1
Dibromofluoromethane (Surr)	97		75 - 132	06/10/15 12:04	06/11/15 00:19	1
1,2-Dichloroethane-d4 (Surr)	98		71 - 136	06/10/15 12:04	06/11/15 00:19	1
Toluene-d8 (Surr)	99		80 - 120	06/10/15 12:04	06/11/15 00:19	1
Trifluorotoluene (Surr)	127		65 - 140	06/10/15 12:04	06/11/15 00:19	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.4	mg/Kg		✉	06/09/15 14:09	06/10/15 05:31	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	112		50 - 150	06/09/15 14:09	06/10/15 05:31	1			
4-Bromofluorobenzene (Surr)	95		50 - 150	06/09/15 14:09	06/10/15 05:31	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010	mg/Kg		✉	06/09/15 09:37	06/12/15 19:54	1
PCB-1221	ND		0.011	mg/Kg		✉	06/09/15 09:37	06/12/15 19:54	1
PCB-1232	ND		0.011	mg/Kg		✉	06/09/15 09:37	06/12/15 19:54	1
PCB-1242	ND		0.010	mg/Kg		✉	06/09/15 09:37	06/12/15 19:54	1
PCB-1248	ND		0.011	mg/Kg		✉	06/09/15 09:37	06/12/15 19:54	1
PCB-1254	ND		0.010	mg/Kg		✉	06/09/15 09:37	06/12/15 19:54	1
PCB-1260	ND		0.010	mg/Kg		✉	06/09/15 09:37	06/12/15 19:54	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	73		45 - 135	06/09/15 09:37	06/12/15 19:54	1			
DCB Decachlorobiphenyl	91		50 - 140	06/09/15 09:37	06/12/15 19:54	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		20	mg/Kg		✉	06/09/15 10:58	06/10/15 11:36	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	78		50 - 150	06/09/15 10:58	06/10/15 11:36	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-4-S-9-11

Lab Sample ID: 580-50580-12

Date Collected: 06/03/15 10:45

Matrix: Solid

Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75		0.10		%			06/13/15 18:10	1
Percent Moisture	25		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-4-S-9-11

Date Collected: 06/03/15 10:45

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-12

Matrix: Solid

Percent Solids: 74.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		71	3.5	ug/Kg	✉	06/10/15 12:04	06/11/15 00:52	1
m-Xylene & p-Xylene	6.1 J		71	5.3	ug/Kg	✉	06/10/15 12:04	06/11/15 00:52	1
o-Xylene	ND		71	5.3	ug/Kg	✉	06/10/15 12:04	06/11/15 00:52	1
Tetrachloroethene (PCE)	ND		35	9.4	ug/Kg	✉	06/10/15 12:04	06/11/15 00:52	1
Trichloroethene (TCE)	8.5 J		43	5.5	ug/Kg	✉	06/10/15 12:04	06/11/15 00:52	1
Xylenes, Total	6.1 J		71	5.3	ug/Kg	✉	06/10/15 12:04	06/11/15 00:52	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	06/10/15 12:04	06/11/15 00:52	1
Dibromofluoromethane (Surr)	97		75 - 132	06/10/15 12:04	06/11/15 00:52	1
1,2-Dichloroethane-d4 (Surr)	102		71 - 136	06/10/15 12:04	06/11/15 00:52	1
Toluene-d8 (Surr)	100		80 - 120	06/10/15 12:04	06/11/15 00:52	1
Trifluorotoluene (Surr)	127		65 - 140	06/10/15 12:04	06/11/15 00:52	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		7.1		mg/Kg	✉	06/09/15 14:09	06/10/15 06:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	115		50 - 150				06/09/15 14:09	06/10/15 06:02	1
4-Bromofluorobenzene (Surr)	96		50 - 150				06/09/15 14:09	06/10/15 06:02	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 20:11	1
PCB-1221	ND		0.014		mg/Kg	✉	06/09/15 09:37	06/12/15 20:11	1
PCB-1232	ND		0.014		mg/Kg	✉	06/09/15 09:37	06/12/15 20:11	1
PCB-1242	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 20:11	1
PCB-1248	ND		0.014		mg/Kg	✉	06/09/15 09:37	06/12/15 20:11	1
PCB-1254	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 20:11	1
PCB-1260	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 20:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		45 - 135				06/09/15 09:37	06/12/15 20:11	1
DCB Decachlorobiphenyl	84		50 - 140				06/09/15 09:37	06/12/15 20:11	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	53	Y	25		mg/Kg	✉	06/09/15 10:58	06/10/15 11:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150				06/09/15 10:58	06/10/15 11:52	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-5-S-13-15

Lab Sample ID: 580-50580-13

Date Collected: 06/03/15 12:05

Matrix: Solid

Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90		0.10		%			06/13/15 18:10	1
Percent Moisture	9.5		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-5-S-13-15

Lab Sample ID: 580-50580-13

Date Collected: 06/03/15 12:05

Matrix: Solid

Date Received: 06/06/15 09:30

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	38	J	48	2.4	ug/Kg	✉	06/10/15 12:04	06/11/15 01:25	1
m-Xylene & p-Xylene	140		48	3.6	ug/Kg	✉	06/10/15 12:04	06/11/15 01:25	1
o-Xylene	7.1	J	48	3.6	ug/Kg	✉	06/10/15 12:04	06/11/15 01:25	1
Tetrachloroethene (PCE)	ND		24	6.3	ug/Kg	✉	06/10/15 12:04	06/11/15 01:25	1
Trichloroethene (TCE)	6.4	J	29	3.7	ug/Kg	✉	06/10/15 12:04	06/11/15 01:25	1
Xylenes, Total	150		48	3.6	ug/Kg	✉	06/10/15 12:04	06/11/15 01:25	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	06/10/15 12:04	06/11/15 01:25	1
Dibromofluoromethane (Surr)	99		75 - 132	06/10/15 12:04	06/11/15 01:25	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 136	06/10/15 12:04	06/11/15 01:25	1
Toluene-d8 (Surr)	98		80 - 120	06/10/15 12:04	06/11/15 01:25	1
Trifluorotoluene (Surr)	125		65 - 140	06/10/15 12:04	06/11/15 01:25	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.8	mg/Kg		✉	06/09/15 14:09	06/10/15 06:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	109		50 - 150				06/09/15 14:09	06/10/15 06:33	1
4-Bromofluorobenzene (Surr)	97		50 - 150				06/09/15 14:09	06/10/15 06:33	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.011	mg/Kg		✉	06/09/15 09:37	06/12/15 20:28	1
PCB-1221	ND		0.012	mg/Kg		✉	06/09/15 09:37	06/12/15 20:28	1
PCB-1232	ND		0.012	mg/Kg		✉	06/09/15 09:37	06/12/15 20:28	1
PCB-1242	ND		0.011	mg/Kg		✉	06/09/15 09:37	06/12/15 20:28	1
PCB-1248	ND		0.012	mg/Kg		✉	06/09/15 09:37	06/12/15 20:28	1
PCB-1254	ND		0.011	mg/Kg		✉	06/09/15 09:37	06/12/15 20:28	1
PCB-1260	ND		0.011	mg/Kg		✉	06/09/15 09:37	06/12/15 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		45 - 135				06/09/15 09:37	06/12/15 20:28	1
DCB Decachlorobiphenyl	91		50 - 140				06/09/15 09:37	06/12/15 20:28	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	52	Y	22	mg/Kg		✉	06/09/15 10:58	06/10/15 12:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150				06/09/15 10:58	06/10/15 12:08	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-5-S-0-2

Lab Sample ID: 580-50580-14

Matrix: Solid

Date Collected: 06/03/15 11:20
Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76		0.10		%			06/13/15 18:10	1
Percent Moisture	24		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-5-S-0-2

Date Collected: 06/03/15 11:20

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-14

Matrix: Solid

Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		64	3.2	ug/Kg	✉	06/10/15 12:04	06/11/15 01:58	1
m-Xylene & p-Xylene	ND		64	4.8	ug/Kg	✉	06/10/15 12:04	06/11/15 01:58	1
o-Xylene	ND		64	4.8	ug/Kg	✉	06/10/15 12:04	06/11/15 01:58	1
Tetrachloroethene (PCE)	ND		32	8.5	ug/Kg	✉	06/10/15 12:04	06/11/15 01:58	1
Trichloroethene (TCE)	ND		39	5.0	ug/Kg	✉	06/10/15 12:04	06/11/15 01:58	1
Xylenes, Total	ND		64	4.8	ug/Kg	✉	06/10/15 12:04	06/11/15 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 120	06/10/15 12:04	06/11/15 01:58	1
Dibromofluoromethane (Surr)	99		75 - 132	06/10/15 12:04	06/11/15 01:58	1
1,2-Dichloroethane-d4 (Surr)	99		71 - 136	06/10/15 12:04	06/11/15 01:58	1
Toluene-d8 (Surr)	100		80 - 120	06/10/15 12:04	06/11/15 01:58	1
Trifluorotoluene (Surr)	121		65 - 140	06/10/15 12:04	06/11/15 01:58	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		6.4		mg/Kg	✉	06/09/15 14:09	06/10/15 07:04	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	111		50 - 150	06/09/15 14:09	06/10/15 07:04	1			
4-Bromofluorobenzene (Surr)	96		50 - 150	06/09/15 14:09	06/10/15 07:04	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 20:44	1
PCB-1221	ND		0.014		mg/Kg	✉	06/09/15 09:37	06/12/15 20:44	1
PCB-1232	ND		0.014		mg/Kg	✉	06/09/15 09:37	06/12/15 20:44	1
PCB-1242	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 20:44	1
PCB-1248	ND		0.014		mg/Kg	✉	06/09/15 09:37	06/12/15 20:44	1
PCB-1254	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 20:44	1
PCB-1260	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 20:44	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	73		45 - 135	06/09/15 09:37	06/12/15 20:44	1			
DCB Decachlorobiphenyl	85		50 - 140	06/09/15 09:37	06/12/15 20:44	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	41	Y	24		mg/Kg	✉	06/09/15 10:58	06/10/15 12:25	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	76		50 - 150	06/09/15 10:58	06/10/15 12:25	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-5-S-9-11

Lab Sample ID: 580-50580-15

Matrix: Solid

Date Collected: 06/03/15 11:50
Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78		0.10		%			06/13/15 18:10	1
Percent Moisture	22		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-5-S-9-11

Date Collected: 06/03/15 11:50

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-15

Matrix: Solid

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		62	3.1	ug/Kg	✉	06/10/15 12:04	06/11/15 02:31	1
m-Xylene & p-Xylene	5.9 J		62	4.6	ug/Kg	✉	06/10/15 12:04	06/11/15 02:31	1
o-Xylene	ND		62	4.6	ug/Kg	✉	06/10/15 12:04	06/11/15 02:31	1
Tetrachloroethene (PCE)	ND		31	8.2	ug/Kg	✉	06/10/15 12:04	06/11/15 02:31	1
Trichloroethene (TCE)	ND		37	4.8	ug/Kg	✉	06/10/15 12:04	06/11/15 02:31	1
Xylenes, Total	5.9 J		62	4.6	ug/Kg	✉	06/10/15 12:04	06/11/15 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	06/10/15 12:04	06/11/15 02:31	1
Dibromofluoromethane (Surr)	102		75 - 132	06/10/15 12:04	06/11/15 02:31	1
1,2-Dichloroethane-d4 (Surr)	105		71 - 136	06/10/15 12:04	06/11/15 02:31	1
Toluene-d8 (Surr)	99		80 - 120	06/10/15 12:04	06/11/15 02:31	1
Trifluorotoluene (Surr)	98		65 - 140	06/10/15 12:04	06/11/15 02:31	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		6.2		mg/Kg	✉	06/09/15 14:09	06/10/15 07:35	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	106		50 - 150	06/09/15 14:09	06/10/15 07:35	1			
4-Bromofluorobenzene (Surr)	95		50 - 150	06/09/15 14:09	06/10/15 07:35	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 21:01	1
PCB-1221	ND		0.014		mg/Kg	✉	06/09/15 09:37	06/12/15 21:01	1
PCB-1232	ND		0.014		mg/Kg	✉	06/09/15 09:37	06/12/15 21:01	1
PCB-1242	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 21:01	1
PCB-1248	ND		0.014		mg/Kg	✉	06/09/15 09:37	06/12/15 21:01	1
PCB-1254	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 21:01	1
PCB-1260	ND		0.013		mg/Kg	✉	06/09/15 09:37	06/12/15 21:01	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	66		45 - 135	06/09/15 09:37	06/12/15 21:01	1			
DCB Decachlorobiphenyl	88		50 - 140	06/09/15 09:37	06/12/15 21:01	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	100	Y	25		mg/Kg	✉	06/09/15 10:58	06/10/15 12:41	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	75		50 - 150	06/09/15 10:58	06/10/15 12:41	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-6-S-0-2

Lab Sample ID: 580-50580-16

Matrix: Solid

Date Collected: 06/03/15 15:05
Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82		0.10		%			06/13/15 18:10	1
Percent Moisture	18		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-6-S-0-2

Date Collected: 06/03/15 15:05

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-16

Matrix: Solid

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	3.8	J	57	2.9	ug/Kg	✉	06/10/15 12:04	06/11/15 03:03	1
m-Xylene & p-Xylene	8.8	J	57	4.3	ug/Kg	✉	06/10/15 12:04	06/11/15 03:03	1
o-Xylene	ND		57	4.3	ug/Kg	✉	06/10/15 12:04	06/11/15 03:03	1
Tetrachloroethene (PCE)	ND		29	7.6	ug/Kg	✉	06/10/15 12:04	06/11/15 03:03	1
Trichloroethene (TCE)	ND		34	4.4	ug/Kg	✉	06/10/15 12:04	06/11/15 03:03	1
Xylenes, Total	8.8	J	57	4.3	ug/Kg	✉	06/10/15 12:04	06/11/15 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	06/10/15 12:04	06/11/15 03:03	1
Dibromofluoromethane (Surr)	102		75 - 132	06/10/15 12:04	06/11/15 03:03	1
1,2-Dichloroethane-d4 (Surr)	102		71 - 136	06/10/15 12:04	06/11/15 03:03	1
Toluene-d8 (Surr)	99		80 - 120	06/10/15 12:04	06/11/15 03:03	1
Trifluorotoluene (Surr)	100		65 - 140	06/10/15 12:04	06/11/15 03:03	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		5.7	mg/Kg		✉	06/09/15 14:09	06/10/15 08:06	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	112		50 - 150	06/09/15 14:09	06/10/15 08:06	1			
4-Bromofluorobenzene (Surr)	94		50 - 150	06/09/15 14:09	06/10/15 08:06	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.012	mg/Kg		✉	06/09/15 09:37	06/12/15 21:51	1
PCB-1221	ND		0.013	mg/Kg		✉	06/09/15 09:37	06/12/15 21:51	1
PCB-1232	ND		0.013	mg/Kg		✉	06/09/15 09:37	06/12/15 21:51	1
PCB-1242	ND		0.012	mg/Kg		✉	06/09/15 09:37	06/12/15 21:51	1
PCB-1248	ND		0.013	mg/Kg		✉	06/09/15 09:37	06/12/15 21:51	1
PCB-1254	ND		0.012	mg/Kg		✉	06/09/15 09:37	06/12/15 21:51	1
PCB-1260	0.021		0.012	mg/Kg		✉	06/09/15 09:37	06/12/15 21:51	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	75		45 - 135	06/09/15 09:37	06/12/15 21:51	1			
DCB Decachlorobiphenyl	85		50 - 140	06/09/15 09:37	06/12/15 21:51	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	56	Y	23	mg/Kg		✉	06/09/15 10:58	06/10/15 13:13	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	74		50 - 150	06/09/15 10:58	06/10/15 13:13	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-6-S-9-11

Lab Sample ID: 580-50580-17

Matrix: Solid

Date Collected: 06/03/15 15:30
Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80		0.10		%			06/13/15 18:10	1
Percent Moisture	20		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-6-S-9-11

Lab Sample ID: 580-50580-17

Date Collected: 06/03/15 15:30

Matrix: Solid

Date Received: 06/06/15 09:30

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene (PCE)	36		31	8.2	ug/Kg	⊗	06/10/15 12:04	06/11/15 03:36	1
Trichloroethene (TCE)	210		37	4.8	ug/Kg	⊗	06/10/15 12:04	06/11/15 03:36	1
Surrogate									
4-Bromofluorobenzene (Surr)	86	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
				70 - 120			06/10/15 12:04	06/11/15 03:36	1
Dibromofluoromethane (Surr)	99			75 - 132			06/10/15 12:04	06/11/15 03:36	1
1,2-Dichloroethane-d4 (Surr)	99			71 - 136			06/10/15 12:04	06/11/15 03:36	1
Toluene-d8 (Surr)	97			80 - 120			06/10/15 12:04	06/11/15 03:36	1
Trifluorotoluene (Surr)	101			65 - 140			06/10/15 12:04	06/11/15 03:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	41000		3100	150	ug/Kg	⊗	06/10/15 12:04	06/16/15 19:26	1
m-Xylene & p-Xylene	110000		3100	230	ug/Kg	⊗	06/10/15 12:04	06/16/15 19:26	1
o-Xylene	22000		3100	230	ug/Kg	⊗	06/10/15 12:04	06/16/15 19:26	1
Xylenes, Total	130000		3100	230	ug/Kg	⊗	06/10/15 12:04	06/16/15 19:26	1
Surrogate									
4-Bromofluorobenzene (Surr)	99	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
				70 - 120			06/10/15 12:04	06/16/15 19:26	1
Dibromofluoromethane (Surr)	93			75 - 132			06/10/15 12:04	06/16/15 19:26	1
1,2-Dichloroethane-d4 (Surr)	95			71 - 136			06/10/15 12:04	06/16/15 19:26	1
Toluene-d8 (Surr)	104			80 - 120			06/10/15 12:04	06/16/15 19:26	1
Trifluorotoluene (Surr)	95			65 - 140			06/10/15 12:04	06/16/15 19:26	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	1400		150		mg/Kg	⊗	06/09/15 14:09	06/12/15 04:38	1
-C6-C10									
Surrogate									
Trifluorotoluene (Surr)	119	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
				50 - 150			06/09/15 14:09	06/12/15 04:38	1
4-Bromofluorobenzene (Surr)	120			50 - 150			06/09/15 14:09	06/12/15 04:38	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.013		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:08	1
PCB-1221	ND		0.014		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:08	1
PCB-1232	ND		0.014		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:08	1
PCB-1242	ND		0.013		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:08	1
PCB-1248	ND		0.014		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:08	1
PCB-1254	0.11		0.013		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:08	1
PCB-1260	ND		0.013		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:08	1
Surrogate									
Tetrachloro-m-xylene	64	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
				45 - 135			06/09/15 09:37	06/12/15 22:08	1
DCB Decachlorobiphenyl	87			50 - 140			06/09/15 09:37	06/12/15 22:08	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	4500	Y	24		mg/Kg	⊗	06/09/15 10:58	06/10/15 13:29	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-6-S-9-11

Lab Sample ID: 580-50580-17

Date Collected: 06/03/15 15:30
Date Received: 06/06/15 09:30

Matrix: Solid

Percent Solids: 79.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	101		50 - 150	06/09/15 10:58	06/10/15 13:29	1

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-6-S-13-15

Lab Sample ID: 580-50580-18

Date Collected: 06/03/15 16:00

Matrix: Solid

Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89		0.10		%			06/13/15 18:10	1
Percent Moisture	11		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-6-S-13-15

Lab Sample ID: 580-50580-18

Date Collected: 06/03/15 16:00

Matrix: Solid

Date Received: 06/06/15 09:30

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene (PCE)	290		26	6.8	ug/Kg	⊗	06/10/15 12:04	06/11/15 04:09	1
Trichloroethene (TCE)	180		31	4.0	ug/Kg	⊗	06/10/15 12:04	06/11/15 04:09	1
Surrogate									
4-Bromofluorobenzene (Surr)	101		70 - 120						
Dibromofluoromethane (Surr)	98		75 - 132						
1,2-Dichloroethane-d4 (Surr)	100		71 - 136						
Toluene-d8 (Surr)	99		80 - 120						
Trifluorotoluene (Surr)	118		65 - 140						

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	27000		2600	130	ug/Kg	⊗	06/10/15 12:04	06/16/15 19:57	1
m-Xylene & p-Xylene	79000		2600	190	ug/Kg	⊗	06/10/15 12:04	06/16/15 19:57	1
o-Xylene	20000		2600	190	ug/Kg	⊗	06/10/15 12:04	06/16/15 19:57	1
Xylenes, Total	99000		2600	190	ug/Kg	⊗	06/10/15 12:04	06/16/15 19:57	1
Surrogate									
4-Bromofluorobenzene (Surr)	100		70 - 120						
Dibromofluoromethane (Surr)	90		75 - 132						
1,2-Dichloroethane-d4 (Surr)	93		71 - 136						
Toluene-d8 (Surr)	102		80 - 120						
Trifluorotoluene (Surr)	98		65 - 140						

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	1200		5.1		mg/Kg	⊗	06/09/15 14:09	06/10/15 09:39	1
Surrogate									
Trifluorotoluene (Surr)	113		50 - 150						
4-Bromofluorobenzene (Surr)	674	X	50 - 150						

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.022		0.011		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:25	1
PCB-1221	ND		0.012		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:25	1
PCB-1232	ND		0.012		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:25	1
PCB-1242	ND		0.011		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:25	1
PCB-1248	ND		0.012		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:25	1
PCB-1254	0.16		0.011		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:25	1
PCB-1260	ND		0.011		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:25	1
Surrogate									
Tetrachloro-m-xylene	69		45 - 135						
DCB Decachlorobiphenyl	81		50 - 140						

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	4800	Y	21		mg/Kg	⊗	06/09/15 10:58	06/10/15 13:46	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-6-S-13-15

Lab Sample ID: 580-50580-18

Date Collected: 06/03/15 16:00
Date Received: 06/06/15 09:30

Matrix: Solid

Percent Solids: 88.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	94		50 - 150	06/09/15 10:58	06/10/15 13:46	1

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-7-S-0-2

Lab Sample ID: 580-50580-19

Matrix: Solid

Date Collected: 06/04/15 11:00
Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81		0.10		%			06/13/15 18:10	1
Percent Moisture	19		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-7-S-0-2

Date Collected: 06/04/15 11:00

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-19

Matrix: Solid

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene (PCE)	ND		29	7.7	ug/Kg	⊗	06/10/15 12:04	06/11/15 04:42	1
Trichloroethene (TCE)	ND		35	4.5	ug/Kg	⊗	06/10/15 12:04	06/11/15 04:42	1
Surrogate									
4-Bromofluorobenzene (Surr)	100		70 - 120				06/10/15 12:04	06/11/15 04:42	1
Dibromofluoromethane (Surr)	98		75 - 132				06/10/15 12:04	06/11/15 04:42	1
1,2-Dichloroethane-d4 (Surr)	105		71 - 136				06/10/15 12:04	06/11/15 04:42	1
Toluene-d8 (Surr)	99		80 - 120				06/10/15 12:04	06/11/15 04:42	1
Trifluorotoluene (Surr)	123		65 - 140				06/10/15 12:04	06/11/15 04:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		58	2.9	ug/Kg	⊗	06/10/15 12:04	06/16/15 17:23	1
m-Xylene & p-Xylene	4.6 J		58	4.4	ug/Kg	⊗	06/10/15 12:04	06/16/15 17:23	1
o-Xylene	ND		58	4.4	ug/Kg	⊗	06/10/15 12:04	06/16/15 17:23	1
Xylenes, Total	4.6 J		58	4.4	ug/Kg	⊗	06/10/15 12:04	06/16/15 17:23	1
Surrogate									
4-Bromofluorobenzene (Surr)	98		70 - 120				06/10/15 12:04	06/16/15 17:23	1
Dibromofluoromethane (Surr)	89		75 - 132				06/10/15 12:04	06/16/15 17:23	1
1,2-Dichloroethane-d4 (Surr)	89		71 - 136				06/10/15 12:04	06/16/15 17:23	1
Toluene-d8 (Surr)	103		80 - 120				06/10/15 12:04	06/16/15 17:23	1
Trifluorotoluene (Surr)	113		65 - 140				06/10/15 12:04	06/16/15 17:23	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		5.8		mg/Kg	⊗	06/09/15 14:09	06/12/15 04:07	1
-C6-C10									
Surrogate									
Trifluorotoluene (Surr)	110		50 - 150				06/09/15 14:09	06/12/15 04:07	1
4-Bromofluorobenzene (Surr)	95		50 - 150				06/09/15 14:09	06/12/15 04:07	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.012		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:41	1
PCB-1221	ND		0.013		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:41	1
PCB-1232	ND		0.013		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:41	1
PCB-1242	ND		0.012		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:41	1
PCB-1248	ND		0.013		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:41	1
PCB-1254	ND		0.012		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:41	1
PCB-1260	ND		0.012		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:41	1
Surrogate									
Tetrachloro-m-xylene	74		45 - 135				06/09/15 09:37	06/12/15 22:41	1
DCB Decachlorobiphenyl	86		50 - 140				06/09/15 09:37	06/12/15 22:41	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	26	Y	22		mg/Kg	⊗	06/09/15 10:58	06/10/15 14:02	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-7-S-0-2

Lab Sample ID: 580-50580-19

Date Collected: 06/04/15 11:00
Date Received: 06/06/15 09:30

Matrix: Solid

Percent Solids: 81.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	75		50 - 150	06/09/15 10:58	06/10/15 14:02	1

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-7-S-11-13

Lab Sample ID: 580-50580-20

Matrix: Solid

Date Collected: 06/04/15 11:10
Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77		0.10		%			06/13/15 18:10	1
Percent Moisture	23		0.10		%			06/13/15 18:10	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-7-S-11-13

Lab Sample ID: 580-50580-20

Date Collected: 06/04/15 11:10

Matrix: Solid

Date Received: 06/06/15 09:30

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	590		68	3.4	ug/Kg	⊗	06/10/15 12:04	06/11/15 05:14	1
o-Xylene	3200		68	5.1	ug/Kg	⊗	06/10/15 12:04	06/11/15 05:14	1
Tetrachloroethene (PCE)	ND		34	9.0	ug/Kg	⊗	06/10/15 12:04	06/11/15 05:14	1
Trichloroethene (TCE)	9.4 J		41	5.3	ug/Kg	⊗	06/10/15 12:04	06/11/15 05:14	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	182	X	70 - 120	06/10/15 12:04	06/11/15 05:14	1
Dibromofluoromethane (Surr)	96		75 - 132	06/10/15 12:04	06/11/15 05:14	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 136	06/10/15 12:04	06/11/15 05:14	1
Toluene-d8 (Surr)	96		80 - 120	06/10/15 12:04	06/11/15 05:14	1
Trifluorotoluene (Surr)	128		65 - 140	06/10/15 12:04	06/11/15 05:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	10000		680	51	ug/Kg	⊗	06/10/15 12:04	06/16/15 20:28	1
Xylenes, Total	13000		680	51	ug/Kg	⊗	06/10/15 12:04	06/16/15 20:28	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	94		70 - 120	06/10/15 12:04	06/16/15 20:28	1			
Dibromofluoromethane (Surr)	92		75 - 132	06/10/15 12:04	06/16/15 20:28	1			
1,2-Dichloroethane-d4 (Surr)	93		71 - 136	06/10/15 12:04	06/16/15 20:28	1			
Toluene-d8 (Surr)	104		80 - 120	06/10/15 12:04	06/16/15 20:28	1			
Trifluorotoluene (Surr)	102		65 - 140	06/10/15 12:04	06/16/15 20:28	1			

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	800		6.8		mg/Kg	⊗	06/09/15 14:09	06/10/15 10:41	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	110		50 - 150	06/09/15 14:09	06/10/15 10:41	1			
4-Bromofluorobenzene (Surr)	537 X		50 - 150	06/09/15 14:09	06/10/15 10:41	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.017		0.013		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:58	1
PCB-1221	ND		0.014		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:58	1
PCB-1232	ND		0.014		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:58	1
PCB-1242	ND		0.013		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:58	1
PCB-1248	ND		0.014		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:58	1
PCB-1254	0.12		0.013		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:58	1
PCB-1260	ND		0.013		mg/Kg	⊗	06/09/15 09:37	06/12/15 22:58	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	59		45 - 135	06/09/15 09:37	06/12/15 22:58	1			
DCB Decachlorobiphenyl	69		50 - 140	06/09/15 09:37	06/12/15 22:58	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	8100	Y	25		mg/Kg	⊗	06/09/15 10:58	06/10/15 14:18	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-7-S-11-13

Lab Sample ID: 580-50580-20

Date Collected: 06/04/15 11:10
Date Received: 06/06/15 09:30

Matrix: Solid

Percent Solids: 77.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	97		50 - 150	06/09/15 10:58	06/10/15 14:18	1

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-7-S-13-15

Lab Sample ID: 580-50580-21

Date Collected: 06/04/15 11:35

Matrix: Solid

Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92		0.10		%			06/09/15 13:58	1
Percent Moisture	8.2		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-7-S-13-15

Lab Sample ID: 580-50580-21

Date Collected: 06/04/15 11:35

Matrix: Solid

Date Received: 06/06/15 09:30

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	150		51	2.6	ug/Kg	✉	06/10/15 12:04	06/11/15 05:47	1
m-Xylene & p-Xylene	2900		51	3.8	ug/Kg	✉	06/10/15 12:04	06/11/15 05:47	1
o-Xylene	680		51	3.8	ug/Kg	✉	06/10/15 12:04	06/11/15 05:47	1
Tetrachloroethene (PCE)	ND		26	6.8	ug/Kg	✉	06/10/15 12:04	06/11/15 05:47	1
Trichloroethene (TCE)	ND		31	4.0	ug/Kg	✉	06/10/15 12:04	06/11/15 05:47	1
Xylenes, Total	3600		51	3.8	ug/Kg	✉	06/10/15 12:04	06/11/15 05:47	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	06/10/15 12:04	06/11/15 05:47	1
Dibromofluoromethane (Surr)	98		75 - 132	06/10/15 12:04	06/11/15 05:47	1
1,2-Dichloroethane-d4 (Surr)	101		71 - 136	06/10/15 12:04	06/11/15 05:47	1
Toluene-d8 (Surr)	100		80 - 120	06/10/15 12:04	06/11/15 05:47	1
Trifluorotoluene (Surr)	114		65 - 140	06/10/15 12:04	06/11/15 05:47	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	170		5.1		mg/Kg	✉	06/10/15 13:27	06/10/15 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	109		50 - 150				06/10/15 13:27	06/10/15 21:15	1
4-Bromofluorobenzene (Surr)	235	X	50 - 150				06/10/15 13:27	06/10/15 21:15	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010		mg/Kg	✉	06/09/15 09:55	06/11/15 14:31	1
PCB-1221	ND		0.011		mg/Kg	✉	06/09/15 09:55	06/11/15 14:31	1
PCB-1232	ND		0.011		mg/Kg	✉	06/09/15 09:55	06/11/15 14:31	1
PCB-1242	ND		0.010		mg/Kg	✉	06/09/15 09:55	06/11/15 14:31	1
PCB-1248	ND		0.011		mg/Kg	✉	06/09/15 09:55	06/11/15 14:31	1
PCB-1254	0.041	P	0.010		mg/Kg	✉	06/09/15 09:55	06/11/15 14:31	1
PCB-1260	ND		0.010		mg/Kg	✉	06/09/15 09:55	06/11/15 14:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72	P	45 - 135				06/09/15 09:55	06/11/15 14:31	1
DCB Decachlorobiphenyl	88	P	50 - 140				06/09/15 09:55	06/11/15 14:31	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	820	Y	21		mg/Kg	✉	06/09/15 13:40	06/12/15 11:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150				06/09/15 13:40	06/12/15 11:01	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-8-S-0-2

Lab Sample ID: 580-50580-22

Date Collected: 06/04/15 12:15

Matrix: Solid

Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86		0.10		%			06/09/15 13:58	1
Percent Moisture	14		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-8-S-0-2

Date Collected: 06/04/15 12:15

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-22

Matrix: Solid

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	31	J	58	2.9	ug/Kg	⊗	06/10/15 12:04	06/11/15 06:20	1
o-Xylene	20	J	58	4.4	ug/Kg	⊗	06/10/15 12:04	06/11/15 06:20	1
Tetrachloroethene (PCE)	ND		29	7.7	ug/Kg	⊗	06/10/15 12:04	06/11/15 06:20	1
Trichloroethene (TCE)	ND		35	4.5	ug/Kg	⊗	06/10/15 12:04	06/11/15 06:20	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	06/10/15 12:04	06/11/15 06:20	1
Dibromofluoromethane (Surr)	100		75 - 132	06/10/15 12:04	06/11/15 06:20	1
1,2-Dichloroethane-d4 (Surr)	102		71 - 136	06/10/15 12:04	06/11/15 06:20	1
Toluene-d8 (Surr)	100		80 - 120	06/10/15 12:04	06/11/15 06:20	1
Trifluorotoluene (Surr)	117		65 - 140	06/10/15 12:04	06/11/15 06:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		58	4.4	ug/Kg	⊗	06/10/15 12:04	06/16/15 17:54	1
Xylenes, Total	ND		58	4.4	ug/Kg	⊗	06/10/15 12:04	06/16/15 17:54	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	102		70 - 120	06/10/15 12:04	06/16/15 17:54	1			
Dibromofluoromethane (Surr)	94		75 - 132	06/10/15 12:04	06/16/15 17:54	1			
1,2-Dichloroethane-d4 (Surr)	92		71 - 136	06/10/15 12:04	06/16/15 17:54	1			
Toluene-d8 (Surr)	100		80 - 120	06/10/15 12:04	06/16/15 17:54	1			
Trifluorotoluene (Surr)	87		65 - 140	06/10/15 12:04	06/16/15 17:54	1			

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		5.8		mg/Kg	⊗	06/10/15 13:27	06/10/15 21:46	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	103		50 - 150	06/10/15 13:27	06/10/15 21:46	1			
4-Bromofluorobenzene (Surr)	98		50 - 150	06/10/15 13:27	06/10/15 21:46	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.011		mg/Kg	⊗	06/09/15 09:55	06/10/15 21:44	1
PCB-1221	ND		0.013		mg/Kg	⊗	06/09/15 09:55	06/10/15 21:44	1
PCB-1232	ND		0.013		mg/Kg	⊗	06/09/15 09:55	06/10/15 21:44	1
PCB-1242	ND		0.011		mg/Kg	⊗	06/09/15 09:55	06/10/15 21:44	1
PCB-1248	ND		0.013		mg/Kg	⊗	06/09/15 09:55	06/10/15 21:44	1
PCB-1254	ND		0.011		mg/Kg	⊗	06/09/15 09:55	06/10/15 21:44	1
PCB-1260	ND		0.011		mg/Kg	⊗	06/09/15 09:55	06/10/15 21:44	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	81		45 - 135	06/09/15 09:55	06/10/15 21:44	1			
DCB Decachlorobiphenyl	96		50 - 140	06/09/15 09:55	06/10/15 21:44	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		23		mg/Kg	⊗	06/09/15 13:40	06/11/15 08:59	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-8-S-0-2

Lab Sample ID: 580-50580-22

Date Collected: 06/04/15 12:15
Date Received: 06/06/15 09:30

Matrix: Solid

Percent Solids: 85.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	62		50 - 150	06/09/15 13:40	06/11/15 08:59	1

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-8-S-9-11

Lab Sample ID: 580-50580-23

Date Collected: 06/04/15 12:35

Matrix: Solid

Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10		%			06/09/15 13:58	1
Percent Moisture	6.8		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-8-S-9-11

Date Collected: 06/04/15 12:35
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-23

Matrix: Solid
Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	17	J	52	2.6	ug/Kg	⊗	06/10/15 12:04	06/11/15 06:52	1
o-Xylene	13	J	52	3.9	ug/Kg	⊗	06/10/15 12:04	06/11/15 06:52	1
Tetrachloroethene (PCE)	ND		26	6.9	ug/Kg	⊗	06/10/15 12:04	06/11/15 06:52	1
Trichloroethene (TCE)	ND		31	4.0	ug/Kg	⊗	06/10/15 12:04	06/11/15 06:52	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	06/10/15 12:04	06/11/15 06:52	1
Dibromofluoromethane (Surr)	99		75 - 132	06/10/15 12:04	06/11/15 06:52	1
1,2-Dichloroethane-d4 (Surr)	102		71 - 136	06/10/15 12:04	06/11/15 06:52	1
Toluene-d8 (Surr)	98		80 - 120	06/10/15 12:04	06/11/15 06:52	1
Trifluorotoluene (Surr)	130		65 - 140	06/10/15 12:04	06/11/15 06:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	4.3	J	52	3.9	ug/Kg	⊗	06/10/15 12:04	06/16/15 18:25	1
Xylenes, Total	4.3	J	52	3.9	ug/Kg	⊗	06/10/15 12:04	06/16/15 18:25	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	98		70 - 120	06/10/15 12:04	06/16/15 18:25	1			
Dibromofluoromethane (Surr)	89		75 - 132	06/10/15 12:04	06/16/15 18:25	1			
1,2-Dichloroethane-d4 (Surr)	90		71 - 136	06/10/15 12:04	06/16/15 18:25	1			
Toluene-d8 (Surr)	100		80 - 120	06/10/15 12:04	06/16/15 18:25	1			
Trifluorotoluene (Surr)	112		65 - 140	06/10/15 12:04	06/16/15 18:25	1			

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		5.2		mg/Kg	⊗	06/10/15 13:27	06/10/15 22:17	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	107		50 - 150	06/10/15 13:27	06/10/15 22:17	1			
4-Bromofluorobenzene (Surr)	97		50 - 150	06/10/15 13:27	06/10/15 22:17	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.011		mg/Kg	⊗	06/09/15 09:55	06/10/15 22:01	1
PCB-1221	ND		0.012		mg/Kg	⊗	06/09/15 09:55	06/10/15 22:01	1
PCB-1232	ND		0.012		mg/Kg	⊗	06/09/15 09:55	06/10/15 22:01	1
PCB-1242	ND		0.011		mg/Kg	⊗	06/09/15 09:55	06/10/15 22:01	1
PCB-1248	ND		0.012		mg/Kg	⊗	06/09/15 09:55	06/10/15 22:01	1
PCB-1254	ND		0.011		mg/Kg	⊗	06/09/15 09:55	06/10/15 22:01	1
PCB-1260	ND		0.011		mg/Kg	⊗	06/09/15 09:55	06/10/15 22:01	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	79		45 - 135	06/09/15 09:55	06/10/15 22:01	1			
DCB Decachlorobiphenyl	96		50 - 140	06/09/15 09:55	06/10/15 22:01	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		21		mg/Kg	⊗	06/09/15 13:40	06/11/15 09:17	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-8-S-9-11

Lab Sample ID: 580-50580-23

Date Collected: 06/04/15 12:35
Date Received: 06/06/15 09:30

Matrix: Solid

Percent Solids: 93.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	66		50 - 150	06/09/15 13:40	06/11/15 09:17	1

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-8-S-13-15

Lab Sample ID: 580-50580-24

Date Collected: 06/04/15 12:55

Matrix: Solid

Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10		%			06/09/15 13:58	1
Percent Moisture	6.1		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-8-S-13-15

Date Collected: 06/04/15 12:55

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-24

Matrix: Solid

Percent Solids: 93.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	7.9	J	46	2.3	ug/Kg	✉	06/10/15 12:04	06/11/15 07:25	1
m-Xylene & p-Xylene	28	J	46	3.5	ug/Kg	✉	06/10/15 12:04	06/11/15 07:25	1
o-Xylene	6.3	J	46	3.5	ug/Kg	✉	06/10/15 12:04	06/11/15 07:25	1
Tetrachloroethene (PCE)	ND		23	6.1	ug/Kg	✉	06/10/15 12:04	06/11/15 07:25	1
Trichloroethene (TCE)	ND		28	3.6	ug/Kg	✉	06/10/15 12:04	06/11/15 07:25	1
Xylenes, Total	34	J	46	3.5	ug/Kg	✉	06/10/15 12:04	06/11/15 07:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	06/10/15 12:04	06/11/15 07:25	1
Dibromofluoromethane (Surr)	97		75 - 132	06/10/15 12:04	06/11/15 07:25	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 136	06/10/15 12:04	06/11/15 07:25	1
Toluene-d8 (Surr)	99		80 - 120	06/10/15 12:04	06/11/15 07:25	1
Trifluorotoluene (Surr)	104		65 - 140	06/10/15 12:04	06/11/15 07:25	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.6	mg/Kg		✉	06/10/15 13:27	06/10/15 22:48	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	106		50 - 150	06/10/15 13:27	06/10/15 22:48	1			
4-Bromofluorobenzene (Surr)	93		50 - 150	06/10/15 13:27	06/10/15 22:48	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.011	mg/Kg		✉	06/09/15 09:55	06/10/15 22:18	1
PCB-1221	ND		0.012	mg/Kg		✉	06/09/15 09:55	06/10/15 22:18	1
PCB-1232	ND		0.012	mg/Kg		✉	06/09/15 09:55	06/10/15 22:18	1
PCB-1242	ND		0.011	mg/Kg		✉	06/09/15 09:55	06/10/15 22:18	1
PCB-1248	ND		0.012	mg/Kg		✉	06/09/15 09:55	06/10/15 22:18	1
PCB-1254	ND		0.011	mg/Kg		✉	06/09/15 09:55	06/10/15 22:18	1
PCB-1260	ND		0.011	mg/Kg		✉	06/09/15 09:55	06/10/15 22:18	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	82		45 - 135	06/09/15 09:55	06/10/15 22:18	1			
DCB Decachlorobiphenyl	98		50 - 140	06/09/15 09:55	06/10/15 22:18	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		21	mg/Kg		✉	06/09/15 13:40	06/11/15 09:35	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	60		50 - 150	06/09/15 13:40	06/11/15 09:35	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-9-S-0-2

Lab Sample ID: 580-50580-25

Date Collected: 06/04/15 09:40

Matrix: Solid

Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85		0.10		%			06/09/15 13:58	1
Percent Moisture	15		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-9-S-0-2

Date Collected: 06/04/15 09:40
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-25

Matrix: Solid

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	11	J	55	2.7	ug/Kg	✉	06/10/15 12:04	06/11/15 07:58	1
m-Xylene & p-Xylene	30	J	55	4.1	ug/Kg	✉	06/10/15 12:04	06/11/15 07:58	1
o-Xylene	9.1	J	55	4.1	ug/Kg	✉	06/10/15 12:04	06/11/15 07:58	1
Tetrachloroethene (PCE)	ND		27	7.3	ug/Kg	✉	06/10/15 12:04	06/11/15 07:58	1
Trichloroethene (TCE)	ND		33	4.2	ug/Kg	✉	06/10/15 12:04	06/11/15 07:58	1
Xylenes, Total	39	J	55	4.1	ug/Kg	✉	06/10/15 12:04	06/11/15 07:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	06/10/15 12:04	06/11/15 07:58	1
Dibromofluoromethane (Surr)	95		75 - 132	06/10/15 12:04	06/11/15 07:58	1
1,2-Dichloroethane-d4 (Surr)	102		71 - 136	06/10/15 12:04	06/11/15 07:58	1
Toluene-d8 (Surr)	98		80 - 120	06/10/15 12:04	06/11/15 07:58	1
Trifluorotoluene (Surr)	139		65 - 140	06/10/15 12:04	06/11/15 07:58	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		5.5		mg/Kg	✉	06/10/15 13:27	06/10/15 23:19	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	116		50 - 150	06/10/15 13:27	06/10/15 23:19	1			
4-Bromofluorobenzene (Surr)	96		50 - 150	06/10/15 13:27	06/10/15 23:19	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.011		mg/Kg	✉	06/09/15 09:55	06/10/15 23:08	1
PCB-1221	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/10/15 23:08	1
PCB-1232	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/10/15 23:08	1
PCB-1242	ND		0.011		mg/Kg	✉	06/09/15 09:55	06/10/15 23:08	1
PCB-1248	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/10/15 23:08	1
PCB-1254	ND		0.011		mg/Kg	✉	06/09/15 09:55	06/10/15 23:08	1
PCB-1260	ND		0.011		mg/Kg	✉	06/09/15 09:55	06/10/15 23:08	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	82		45 - 135	06/09/15 09:55	06/10/15 23:08	1			
DCB Decachlorobiphenyl	98		50 - 140	06/09/15 09:55	06/10/15 23:08	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	40	Y	23		mg/Kg	✉	06/09/15 13:40	06/11/15 09:53	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	61		50 - 150	06/09/15 13:40	06/11/15 09:53	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-9-S-9-11

Lab Sample ID: 580-50580-26

Date Collected: 06/04/15 10:00

Matrix: Solid

Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	72		0.10		%			06/09/15 13:58	1
Percent Moisture	28		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-9-S-9-11

Date Collected: 06/04/15 10:00

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-26

Matrix: Solid

Percent Solids: 72.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	22	J	70	3.5	ug/Kg	✉	06/10/15 12:04	06/11/15 08:31	1
m-Xylene & p-Xylene	27	J	70	5.3	ug/Kg	✉	06/10/15 12:04	06/11/15 08:31	1
o-Xylene	8.2	J	70	5.3	ug/Kg	✉	06/10/15 12:04	06/11/15 08:31	1
Tetrachloroethene (PCE)	ND		35	9.3	ug/Kg	✉	06/10/15 12:04	06/11/15 08:31	1
Trichloroethene (TCE)	ND		42	5.5	ug/Kg	✉	06/10/15 12:04	06/11/15 08:31	1
Xylenes, Total	35	J	70	5.3	ug/Kg	✉	06/10/15 12:04	06/11/15 08:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 120	06/10/15 12:04	06/11/15 08:31	1
Dibromofluoromethane (Surr)	99		75 - 132	06/10/15 12:04	06/11/15 08:31	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 136	06/10/15 12:04	06/11/15 08:31	1
Toluene-d8 (Surr)	100		80 - 120	06/10/15 12:04	06/11/15 08:31	1
Trifluorotoluene (Surr)	127		65 - 140	06/10/15 12:04	06/11/15 08:31	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		7.0	mg/Kg		✉	06/10/15 13:27	06/10/15 23:50	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	108		50 - 150	06/10/15 13:27	06/10/15 23:50	1			
4-Bromofluorobenzene (Surr)	95		50 - 150	06/10/15 13:27	06/10/15 23:50	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.013	mg/Kg		✉	06/09/15 09:55	06/10/15 23:24	1
PCB-1221	ND		0.014	mg/Kg		✉	06/09/15 09:55	06/10/15 23:24	1
PCB-1232	ND		0.014	mg/Kg		✉	06/09/15 09:55	06/10/15 23:24	1
PCB-1242	ND		0.013	mg/Kg		✉	06/09/15 09:55	06/10/15 23:24	1
PCB-1248	ND		0.014	mg/Kg		✉	06/09/15 09:55	06/10/15 23:24	1
PCB-1254	ND		0.013	mg/Kg		✉	06/09/15 09:55	06/10/15 23:24	1
PCB-1260	ND		0.013	mg/Kg		✉	06/09/15 09:55	06/10/15 23:24	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	70		45 - 135	06/09/15 09:55	06/10/15 23:24	1			
DCB Decachlorobiphenyl	97		50 - 140	06/09/15 09:55	06/10/15 23:24	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	80	Y	27	mg/Kg		✉	06/09/15 13:40	06/11/15 10:11	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	62		50 - 150	06/09/15 13:40	06/11/15 10:11	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-9-S-13-15

Lab Sample ID: 580-50580-27

Date Collected: 06/04/15 10:10

Matrix: Solid

Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79		0.10		%			06/09/15 13:58	1
Percent Moisture	21		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-9-S-13-15

Lab Sample ID: 580-50580-27

Date Collected: 06/04/15 10:10

Matrix: Solid

Date Received: 06/06/15 09:30

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	29	J F1 B	66	3.3	ug/Kg	✉	06/11/15 12:53	06/11/15 18:32	1
m-Xylene & p-Xylene	7.1	J F1 B	66	5.0	ug/Kg	✉	06/11/15 12:53	06/11/15 18:32	1
o-Xylene	ND	F1	66	5.0	ug/Kg	✉	06/11/15 12:53	06/11/15 18:32	1
Tetrachloroethene (PCE)	ND	F1	33	8.8	ug/Kg	✉	06/11/15 12:53	06/11/15 18:32	1
Trichloroethene (TCE)	ND	F1	40	5.1	ug/Kg	✉	06/11/15 12:53	06/11/15 18:32	1
Xylenes, Total	7.1	J B F1	66	5.0	ug/Kg	✉	06/11/15 12:53	06/11/15 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120				06/11/15 12:53	06/11/15 18:32	1
Dibromofluoromethane (Surr)	102		75 - 132				06/11/15 12:53	06/11/15 18:32	1
1,2-Dichloroethane-d4 (Surr)	112		71 - 136				06/11/15 12:53	06/11/15 18:32	1
Toluene-d8 (Surr)	97		80 - 120				06/11/15 12:53	06/11/15 18:32	1
Trifluorotoluene (Surr)	117		65 - 140				06/11/15 12:53	06/11/15 18:32	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		6.4	mg/Kg		✉	06/10/15 13:27	06/11/15 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	108		50 - 150				06/10/15 13:27	06/11/15 00:52	1
4-Bromofluorobenzene (Surr)	94		50 - 150				06/10/15 13:27	06/11/15 00:52	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.012	mg/Kg		✉	06/09/15 09:55	06/10/15 23:41	1
PCB-1221	ND		0.014	mg/Kg		✉	06/09/15 09:55	06/10/15 23:41	1
PCB-1232	ND		0.014	mg/Kg		✉	06/09/15 09:55	06/10/15 23:41	1
PCB-1242	ND		0.012	mg/Kg		✉	06/09/15 09:55	06/10/15 23:41	1
PCB-1248	ND		0.014	mg/Kg		✉	06/09/15 09:55	06/10/15 23:41	1
PCB-1254	ND		0.012	mg/Kg		✉	06/09/15 09:55	06/10/15 23:41	1
PCB-1260	ND		0.012	mg/Kg		✉	06/09/15 09:55	06/10/15 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		45 - 135				06/09/15 09:55	06/10/15 23:41	1
DCB Decachlorobiphenyl	94		50 - 140				06/09/15 09:55	06/10/15 23:41	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	51	Y	25	mg/Kg		✉	06/09/15 13:40	06/11/15 10:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		50 - 150				06/09/15 13:40	06/11/15 10:28	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-10-S-0-2

Lab Sample ID: 580-50580-28

Date Collected: 06/03/15 14:00

Matrix: Solid

Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78		0.10		%			06/09/15 13:58	1
Percent Moisture	22		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-10-S-0-2

Date Collected: 06/03/15 14:00

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-28

Matrix: Solid

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	9.5	J B	68	3.4	ug/Kg	✉	06/11/15 12:53	06/11/15 20:10	1
m-Xylene & p-Xylene	9.9	J B	68	5.1	ug/Kg	✉	06/11/15 12:53	06/11/15 20:10	1
o-Xylene	6.9	J B	68	5.1	ug/Kg	✉	06/11/15 12:53	06/11/15 20:10	1
Tetrachloroethene (PCE)	ND		34	9.1	ug/Kg	✉	06/11/15 12:53	06/11/15 20:10	1
Trichloroethene (TCE)	5.6	J	41	5.3	ug/Kg	✉	06/11/15 12:53	06/11/15 20:10	1
Xylenes, Total	17	J B	68	5.1	ug/Kg	✉	06/11/15 12:53	06/11/15 20:10	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	06/11/15 12:53	06/11/15 20:10	1
Dibromofluoromethane (Surr)	103		75 - 132	06/11/15 12:53	06/11/15 20:10	1
1,2-Dichloroethane-d4 (Surr)	114		71 - 136	06/11/15 12:53	06/11/15 20:10	1
Toluene-d8 (Surr)	99		80 - 120	06/11/15 12:53	06/11/15 20:10	1
Trifluorotoluene (Surr)	121		65 - 140	06/11/15 12:53	06/11/15 20:10	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		6.6		mg/Kg	✉	06/10/15 13:27	06/11/15 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	110		50 - 150				06/10/15 13:27	06/11/15 01:23	1
4-Bromofluorobenzene (Surr)	95		50 - 150				06/10/15 13:27	06/11/15 01:23	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/10/15 23:58	1
PCB-1221	ND		0.013		mg/Kg	✉	06/09/15 09:55	06/10/15 23:58	1
PCB-1232	ND		0.013		mg/Kg	✉	06/09/15 09:55	06/10/15 23:58	1
PCB-1242	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/10/15 23:58	1
PCB-1248	ND		0.013		mg/Kg	✉	06/09/15 09:55	06/10/15 23:58	1
PCB-1254	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/10/15 23:58	1
PCB-1260	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/10/15 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		45 - 135				06/09/15 09:55	06/10/15 23:58	1
DCB Decachlorobiphenyl	93		50 - 140				06/09/15 09:55	06/10/15 23:58	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	44	Y	25		mg/Kg	✉	06/09/15 13:40	06/11/15 11:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	63		50 - 150				06/09/15 13:40	06/11/15 11:04	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-10-S-9-11

Lab Sample ID: 580-50580-29

Date Collected: 06/03/15 14:25

Matrix: Solid

Date Received: 06/06/15 09:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79		0.10		%			06/09/15 13:58	1
Percent Moisture	21		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-10-S-9-11

Date Collected: 06/03/15 14:25

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-29

Matrix: Solid

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	11	J B	72	3.6	ug/Kg	✉	06/11/15 12:53	06/11/15 20:43	1
m-Xylene & p-Xylene	12	J B	72	5.4	ug/Kg	✉	06/11/15 12:53	06/11/15 20:43	1
o-Xylene	7.0	J B	72	5.4	ug/Kg	✉	06/11/15 12:53	06/11/15 20:43	1
Tetrachloroethene (PCE)	ND		36	9.5	ug/Kg	✉	06/11/15 12:53	06/11/15 20:43	1
Trichloroethene (TCE)	ND		43	5.6	ug/Kg	✉	06/11/15 12:53	06/11/15 20:43	1
Xylenes, Total	19	J B	72	5.4	ug/Kg	✉	06/11/15 12:53	06/11/15 20:43	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		101		70 - 120			06/11/15 12:53	06/11/15 20:43	1
Dibromofluoromethane (Surr)		102		75 - 132			06/11/15 12:53	06/11/15 20:43	1
1,2-Dichloroethane-d4 (Surr)		107		71 - 136			06/11/15 12:53	06/11/15 20:43	1
Toluene-d8 (Surr)		101		80 - 120			06/11/15 12:53	06/11/15 20:43	1
Trifluorotoluene (Surr)		128		65 - 140			06/11/15 12:53	06/11/15 20:43	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		6.8		mg/Kg	✉	06/10/15 13:27	06/11/15 01:54	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)		109		50 - 150			06/10/15 13:27	06/11/15 01:54	1
4-Bromofluorobenzene (Surr)		99		50 - 150			06/10/15 13:27	06/11/15 01:54	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/11/15 00:14	1
PCB-1221	ND		0.013		mg/Kg	✉	06/09/15 09:55	06/11/15 00:14	1
PCB-1232	ND		0.013		mg/Kg	✉	06/09/15 09:55	06/11/15 00:14	1
PCB-1242	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/11/15 00:14	1
PCB-1248	ND		0.013		mg/Kg	✉	06/09/15 09:55	06/11/15 00:14	1
PCB-1254	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/11/15 00:14	1
PCB-1260	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/11/15 00:14	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene		80		45 - 135			06/09/15 09:55	06/11/15 00:14	1
DCB Decachlorobiphenyl		77		50 - 140			06/09/15 09:55	06/11/15 00:14	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	230	Y	25		mg/Kg	✉	06/09/15 13:40	06/11/15 11:22	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl		64		50 - 150			06/09/15 13:40	06/11/15 11:22	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-10-S-13-15

Date Collected: 06/03/15 14:55

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-30

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79		0.10		%			06/09/15 13:58	1
Percent Moisture	21		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-10-S-13-15

Date Collected: 06/03/15 14:55

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-30

Matrix: Solid

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	21	J B	71	3.5	ug/Kg	✉	06/11/15 12:53	06/11/15 21:16	1
m-Xylene & p-Xylene	53	J B	71	5.3	ug/Kg	✉	06/11/15 12:53	06/11/15 21:16	1
o-Xylene	30	J B	71	5.3	ug/Kg	✉	06/11/15 12:53	06/11/15 21:16	1
Tetrachloroethene (PCE)	ND		35	9.4	ug/Kg	✉	06/11/15 12:53	06/11/15 21:16	1
Trichloroethene (TCE)	ND		42	5.5	ug/Kg	✉	06/11/15 12:53	06/11/15 21:16	1
Xylenes, Total	83	B	71	5.3	ug/Kg	✉	06/11/15 12:53	06/11/15 21:16	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100			70 - 120			06/11/15 12:53	06/11/15 21:16	1
Dibromofluoromethane (Surr)	97			75 - 132			06/11/15 12:53	06/11/15 21:16	1
1,2-Dichloroethane-d4 (Surr)	104			71 - 136			06/11/15 12:53	06/11/15 21:16	1
Toluene-d8 (Surr)	99			80 - 120			06/11/15 12:53	06/11/15 21:16	1
Trifluorotoluene (Surr)	132			65 - 140			06/11/15 12:53	06/11/15 21:16	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		6.8		mg/Kg	✉	06/10/15 13:27	06/11/15 02:25	1
Surrogate									
Trifluorotoluene (Surr)	106			50 - 150			06/10/15 13:27	06/11/15 02:25	1
4-Bromofluorobenzene (Surr)	96			50 - 150			06/10/15 13:27	06/11/15 02:25	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/11/15 00:31	1
PCB-1221	ND		0.014		mg/Kg	✉	06/09/15 09:55	06/11/15 00:31	1
PCB-1232	ND		0.014		mg/Kg	✉	06/09/15 09:55	06/11/15 00:31	1
PCB-1242	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/11/15 00:31	1
PCB-1248	ND		0.014		mg/Kg	✉	06/09/15 09:55	06/11/15 00:31	1
PCB-1254	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/11/15 00:31	1
PCB-1260	ND		0.012		mg/Kg	✉	06/09/15 09:55	06/11/15 00:31	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77			45 - 135			06/09/15 09:55	06/11/15 00:31	1
DCB Decachlorobiphenyl	98			50 - 140			06/09/15 09:55	06/11/15 00:31	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	28	Y	25		mg/Kg	✉	06/09/15 13:40	06/11/15 11:40	1
Surrogate									
o-Terphenyl	56			50 - 150			06/09/15 13:40	06/11/15 11:40	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: BD-1-S
Date Collected: 06/03/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-31
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97		0.10		%			06/09/15 13:58	1
Percent Moisture	3.1		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: BD-1-S
Date Collected: 06/03/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-31
Matrix: Solid
Percent Solids: 96.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	3.0	J B	47	2.3	ug/Kg	✉	06/11/15 12:53	06/11/15 21:48	1
m-Xylene & p-Xylene	4.6	J B	47	3.5	ug/Kg	✉	06/11/15 12:53	06/11/15 21:48	1
o-Xylene	5.2	J B	47	3.5	ug/Kg	✉	06/11/15 12:53	06/11/15 21:48	1
Tetrachloroethene (PCE)	12	J	23	6.2	ug/Kg	✉	06/11/15 12:53	06/11/15 21:48	1
Trichloroethene (TCE)	9.1	J	28	3.6	ug/Kg	✉	06/11/15 12:53	06/11/15 21:48	1
Xylenes, Total	9.8	J B	47	3.5	ug/Kg	✉	06/11/15 12:53	06/11/15 21:48	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 120	06/11/15 12:53	06/11/15 21:48	1
Dibromofluoromethane (Surr)	99		75 - 132	06/11/15 12:53	06/11/15 21:48	1
1,2-Dichloroethane-d4 (Surr)	109		71 - 136	06/11/15 12:53	06/11/15 21:48	1
Toluene-d8 (Surr)	99		80 - 120	06/11/15 12:53	06/11/15 21:48	1
Trifluorotoluene (Surr)	133		65 - 140	06/11/15 12:53	06/11/15 21:48	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.4	mg/Kg		✉	06/10/15 13:27	06/11/15 02:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	112		50 - 150				06/10/15 13:27	06/11/15 02:56	1
4-Bromofluorobenzene (Surr)	89		50 - 150				06/10/15 13:27	06/11/15 02:56	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0097	mg/Kg		✉	06/09/15 09:55	06/11/15 00:47	1
PCB-1221	ND		0.011	mg/Kg		✉	06/09/15 09:55	06/11/15 00:47	1
PCB-1232	ND		0.011	mg/Kg		✉	06/09/15 09:55	06/11/15 00:47	1
PCB-1242	ND		0.0097	mg/Kg		✉	06/09/15 09:55	06/11/15 00:47	1
PCB-1248	ND		0.011	mg/Kg		✉	06/09/15 09:55	06/11/15 00:47	1
PCB-1254	ND		0.0097	mg/Kg		✉	06/09/15 09:55	06/11/15 00:47	1
PCB-1260	ND		0.0097	mg/Kg		✉	06/09/15 09:55	06/11/15 00:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		45 - 135				06/09/15 09:55	06/11/15 00:47	1
DCB Decachlorobiphenyl	101		50 - 140				06/09/15 09:55	06/11/15 00:47	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		20	mg/Kg		✉	06/09/15 13:40	06/11/15 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	61		50 - 150				06/09/15 13:40	06/11/15 12:53	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: BD-2-S
Date Collected: 06/03/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-32
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91		0.10		%			06/09/15 13:58	1
Percent Moisture	8.8		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: BD-2-S
Date Collected: 06/03/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-32
Matrix: Solid
Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	44	J B	51	2.6	ug/Kg	✉	06/11/15 12:53	06/11/15 22:21	1
m-Xylene & p-Xylene	140	B	51	3.8	ug/Kg	✉	06/11/15 12:53	06/11/15 22:21	1
o-Xylene	9.4	J B	51	3.8	ug/Kg	✉	06/11/15 12:53	06/11/15 22:21	1
Tetrachloroethene (PCE)	ND		26	6.8	ug/Kg	✉	06/11/15 12:53	06/11/15 22:21	1
Trichloroethene (TCE)	6.7	J	31	4.0	ug/Kg	✉	06/11/15 12:53	06/11/15 22:21	1
Xylenes, Total	150	B	51	3.8	ug/Kg	✉	06/11/15 12:53	06/11/15 22:21	1

Surrogate

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	06/11/15 12:53	06/11/15 22:21	1
Dibromofluoromethane (Surr)	103		75 - 132	06/11/15 12:53	06/11/15 22:21	1
1,2-Dichloroethane-d4 (Surr)	113		71 - 136	06/11/15 12:53	06/11/15 22:21	1
Toluene-d8 (Surr)	100		80 - 120	06/11/15 12:53	06/11/15 22:21	1
Trifluorotoluene (Surr)	125		65 - 140	06/11/15 12:53	06/11/15 22:21	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.9	mg/Kg		✉	06/10/15 13:27	06/11/15 03:27	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Trifluorotoluene (Surr)	117		50 - 150	06/10/15 13:27	06/11/15 03:27	1			
4-Bromofluorobenzene (Surr)	94		50 - 150	06/10/15 13:27	06/11/15 03:27	1			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010	mg/Kg		✉	06/09/15 09:55	06/11/15 01:04	1
PCB-1221	ND		0.012	mg/Kg		✉	06/09/15 09:55	06/11/15 01:04	1
PCB-1232	ND		0.012	mg/Kg		✉	06/09/15 09:55	06/11/15 01:04	1
PCB-1242	ND		0.010	mg/Kg		✉	06/09/15 09:55	06/11/15 01:04	1
PCB-1248	ND		0.012	mg/Kg		✉	06/09/15 09:55	06/11/15 01:04	1
PCB-1254	ND		0.010	mg/Kg		✉	06/09/15 09:55	06/11/15 01:04	1
PCB-1260	ND		0.010	mg/Kg		✉	06/09/15 09:55	06/11/15 01:04	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Tetrachloro-m-xylene	63		45 - 135	06/09/15 09:55	06/11/15 01:04	1			
DCB Decachlorobiphenyl	81		50 - 140	06/09/15 09:55	06/11/15 01:04	1			

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		22	mg/Kg		✉	06/09/15 13:40	06/11/15 13:11	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	69		50 - 150	06/09/15 13:40	06/11/15 13:11	1			

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: BD-3-S
Date Collected: 06/04/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-33
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	73		0.10		%			06/09/15 13:58	1
Percent Moisture	27		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: BD-3-S
Date Collected: 06/04/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-33
Matrix: Solid
Percent Solids: 72.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	53	J B	73	3.7	ug/Kg	⌚	06/11/15 12:53	06/11/15 22:54	1
m-Xylene & p-Xylene	7.1	J B	73	5.5	ug/Kg	⌚	06/11/15 12:53	06/11/15 22:54	1
o-Xylene	ND		73	5.5	ug/Kg	⌚	06/11/15 12:53	06/11/15 22:54	1
Tetrachloroethene (PCE)	ND		37	9.7	ug/Kg	⌚	06/11/15 12:53	06/11/15 22:54	1
Trichloroethene (TCE)	ND		44	5.7	ug/Kg	⌚	06/11/15 12:53	06/11/15 22:54	1
Xylenes, Total	7.1	J B	73	5.5	ug/Kg	⌚	06/11/15 12:53	06/11/15 22:54	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 120	06/11/15 12:53	06/11/15 22:54	1
Dibromofluoromethane (Surr)	102		75 - 132	06/11/15 12:53	06/11/15 22:54	1
1,2-Dichloroethane-d4 (Surr)	110		71 - 136	06/11/15 12:53	06/11/15 22:54	1
Toluene-d8 (Surr)	98		80 - 120	06/11/15 12:53	06/11/15 22:54	1
Trifluorotoluene (Surr)	106		65 - 140	06/11/15 12:53	06/11/15 22:54	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		7.1	mg/Kg		⌚	06/10/15 13:27	06/11/15 03:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	107		50 - 150				06/10/15 13:27	06/11/15 03:58	1
4-Bromofluorobenzene (Surr)	95		50 - 150				06/10/15 13:27	06/11/15 03:58	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.013	mg/Kg		⌚	06/09/15 09:55	06/11/15 06:06	1
PCB-1221	ND		0.014	mg/Kg		⌚	06/09/15 09:55	06/11/15 06:06	1
PCB-1232	ND		0.014	mg/Kg		⌚	06/09/15 09:55	06/11/15 06:06	1
PCB-1242	ND		0.013	mg/Kg		⌚	06/09/15 09:55	06/11/15 06:06	1
PCB-1248	ND		0.014	mg/Kg		⌚	06/09/15 09:55	06/11/15 06:06	1
PCB-1254	ND		0.013	mg/Kg		⌚	06/09/15 09:55	06/11/15 06:06	1
PCB-1260	ND		0.013	mg/Kg		⌚	06/09/15 09:55	06/11/15 06:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		45 - 135				06/09/15 09:55	06/11/15 06:06	1
DCB Decachlorobiphenyl	86		50 - 140				06/09/15 09:55	06/11/15 06:06	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	62	Y	27	mg/Kg		⌚	06/09/15 13:40	06/11/15 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	64		50 - 150				06/09/15 13:40	06/11/15 13:29	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: BD-4-S
Date Collected: 06/04/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-34
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			06/09/15 13:58	1
Percent Moisture	5.0		0.10		%			06/09/15 13:58	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: BD-4-S
Date Collected: 06/04/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-34
Matrix: Solid
Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	3.7	J B	48	2.4	ug/Kg	✉	06/11/15 12:53	06/11/15 23:27	1
m-Xylene & p-Xylene	ND		48	3.6	ug/Kg	✉	06/11/15 12:53	06/11/15 23:27	1
o-Xylene	ND		48	3.6	ug/Kg	✉	06/11/15 12:53	06/11/15 23:27	1
Tetrachloroethene (PCE)	ND		24	6.4	ug/Kg	✉	06/11/15 12:53	06/11/15 23:27	1
Trichloroethene (TCE)	ND		29	3.7	ug/Kg	✉	06/11/15 12:53	06/11/15 23:27	1
Xylenes, Total	ND		48	3.6	ug/Kg	✉	06/11/15 12:53	06/11/15 23:27	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 120	06/11/15 12:53	06/11/15 23:27	1
Dibromofluoromethane (Surr)	99		75 - 132	06/11/15 12:53	06/11/15 23:27	1
1,2-Dichloroethane-d4 (Surr)	108		71 - 136	06/11/15 12:53	06/11/15 23:27	1
Toluene-d8 (Surr)	99		80 - 120	06/11/15 12:53	06/11/15 23:27	1
Trifluorotoluene (Surr)	128		65 - 140	06/11/15 12:53	06/11/15 23:27	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.6		mg/Kg	✉	06/10/15 13:27	06/11/15 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	113		50 - 150				06/10/15 13:27	06/11/15 04:28	1
4-Bromofluorobenzene (Surr)	97		50 - 150				06/10/15 13:27	06/11/15 04:28	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0096		mg/Kg	✉	06/09/15 09:55	06/11/15 06:22	1
PCB-1221	ND		0.011		mg/Kg	✉	06/09/15 09:55	06/11/15 06:22	1
PCB-1232	ND		0.011		mg/Kg	✉	06/09/15 09:55	06/11/15 06:22	1
PCB-1242	ND		0.0096		mg/Kg	✉	06/09/15 09:55	06/11/15 06:22	1
PCB-1248	ND		0.011		mg/Kg	✉	06/09/15 09:55	06/11/15 06:22	1
PCB-1254	ND		0.0096		mg/Kg	✉	06/09/15 09:55	06/11/15 06:22	1
PCB-1260	ND		0.0096		mg/Kg	✉	06/09/15 09:55	06/11/15 06:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		45 - 135				06/09/15 09:55	06/11/15 06:22	1
DCB Decachlorobiphenyl	101		50 - 140				06/09/15 09:55	06/11/15 06:22	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		21		mg/Kg	✉	06/09/15 13:40	06/11/15 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		50 - 150				06/09/15 13:40	06/11/15 13:47	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: Trip Blanks

Date Collected: 06/03/15 00:01

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-35

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	3.7	J B	40	2.0	ug/Kg	06/11/15 12:53	06/11/15 17:26		1
m-Xylene & p-Xylene	5.8	J B	40	3.0	ug/Kg	06/11/15 12:53	06/11/15 17:26		1
o-Xylene	3.8	J B	40	3.0	ug/Kg	06/11/15 12:53	06/11/15 17:26		1
Tetrachloroethene (PCE)	ND		20	5.3	ug/Kg	06/11/15 12:53	06/11/15 17:26		1
Trichloroethene (TCE)	ND		24	3.1	ug/Kg	06/11/15 12:53	06/11/15 17:26		1
Xylenes, Total	9.6	J B	40	3.0	ug/Kg	06/11/15 12:53	06/11/15 17:26		1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	06/11/15 12:53	06/11/15 17:26	1
Dibromofluoromethane (Surr)	101		75 - 132	06/11/15 12:53	06/11/15 17:26	1
1,2-Dichloroethane-d4 (Surr)	104		71 - 136	06/11/15 12:53	06/11/15 17:26	1
Toluene-d8 (Surr)	98		80 - 120	06/11/15 12:53	06/11/15 17:26	1
Trifluorotoluene (Surr)	126		65 - 140	06/11/15 12:53	06/11/15 17:26	1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.3		mg/Kg	06/10/15 13:27	06/10/15 20:44		1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	116		50 - 150	06/10/15 13:27	06/10/15 20:44	1
4-Bromofluorobenzene (Surr)	93		50 - 150	06/10/15 13:27	06/10/15 20:44	1

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

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

Lab Sample ID: MB 580-191616/1-A

Matrix: Solid

Analysis Batch: 191458

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191616

Analyte	MB		RL	MDL	Unit	D	Prepared		Analyzed	Dil Fac
	Result	Qualifier					Prepared	Analyzed		
Ethylbenzene	2.46	J	40	2.0	ug/Kg	06/09/15 11:45	06/09/15 20:57		1	
m-Xylene & p-Xylene	4.13	J	40	3.0	ug/Kg	06/09/15 11:45	06/09/15 20:57		1	
o-Xylene	ND		40	3.0	ug/Kg	06/09/15 11:45	06/09/15 20:57		1	
Tetrachloroethene (PCE)	14.7	J	20	5.3	ug/Kg	06/09/15 11:45	06/09/15 20:57		1	
Trichloroethene (TCE)	ND		24	3.1	ug/Kg	06/09/15 11:45	06/09/15 20:57		1	
Xylenes, Total	4.13	J	40	3.0	ug/Kg	06/09/15 11:45	06/09/15 20:57		1	

Surrogate	MB		Limits	Prepared		Dil Fac
	%Recovery	Qualifier		Prepared	Analyzed	
4-Bromofluorobenzene (Surr)	104		70 - 120	06/09/15 11:45	06/09/15 20:57	1
Dibromofluoromethane (Surr)	101		75 - 132	06/09/15 11:45	06/09/15 20:57	1
1,2-Dichloroethane-d4 (Surr)	112		71 - 136	06/09/15 11:45	06/09/15 20:57	1
Toluene-d8 (Surr)	98		80 - 120	06/09/15 11:45	06/09/15 20:57	1
Trifluorotoluene (Surr)	95		65 - 140	06/09/15 11:45	06/09/15 20:57	1

Lab Sample ID: LCS 580-191616/2-A

Matrix: Solid

Analysis Batch: 191458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 191616

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
	Added	Result							
Ethylbenzene	800	1100	*		ug/Kg	138		78 - 126	
m-Xylene & p-Xylene	800	1110	*		ug/Kg	139		78 - 126	
o-Xylene	800	1160	*		ug/Kg	145		77 - 127	
Tetrachloroethene (PCE)	800	1130			ug/Kg	141		56 - 155	
Trichloroethene (TCE)	800	1120	*		ug/Kg	140		83 - 124	
Xylenes, Total	1600	2270	*		ug/Kg	142		70 - 130	

Surrogate	LCS		Limits	Prepared		Dil Fac
	%Recovery	Qualifier		Prepared	Analyzed	
4-Bromofluorobenzene (Surr)	103		70 - 120			
Dibromofluoromethane (Surr)	101		75 - 132			
1,2-Dichloroethane-d4 (Surr)	108		71 - 136			
Toluene-d8 (Surr)	98		80 - 120			
Trifluorotoluene (Surr)	96		65 - 140			

Lab Sample ID: MB 580-191735/1-A

Matrix: Solid

Analysis Batch: 191793

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191735

Analyte	MB		RL	MDL	Unit	D	Prepared		Dil Fac
	Result	Qualifier					Prepared	Analyzed	
Ethylbenzene	ND		40	2.0	ug/Kg	06/10/15 12:04	06/10/15 14:08		1
m-Xylene & p-Xylene	ND		40	3.0	ug/Kg	06/10/15 12:04	06/10/15 14:08		1
o-Xylene	ND		40	3.0	ug/Kg	06/10/15 12:04	06/10/15 14:08		1
Tetrachloroethene (PCE)	ND		20	5.3	ug/Kg	06/10/15 12:04	06/10/15 14:08		1
Trichloroethene (TCE)	ND		24	3.1	ug/Kg	06/10/15 12:04	06/10/15 14:08		1
Xylenes, Total	ND		40	3.0	ug/Kg	06/10/15 12:04	06/10/15 14:08		1

Surrogate	MB		Limits	Prepared		Dil Fac
	%Recovery	Qualifier		Prepared	Analyzed	
4-Bromofluorobenzene (Surr)	102		70 - 120	06/10/15 12:04	06/10/15 14:08	1

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

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

Lab Sample ID: MB 580-191735/1-A

Matrix: Solid

Analysis Batch: 191793

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191735

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)		101			75 - 132	06/10/15 12:04	06/10/15 14:08	1
1,2-Dichloroethane-d4 (Surr)		113			71 - 136	06/10/15 12:04	06/10/15 14:08	1
Toluene-d8 (Surr)		97			80 - 120	06/10/15 12:04	06/10/15 14:08	1
Trifluorotoluene (Surr)		97			65 - 140	06/10/15 12:04	06/10/15 14:08	1

Lab Sample ID: LCS 580-191735/2-A

Matrix: Solid

Analysis Batch: 191793

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 191735

Analyte	MB	MB	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
				Result	Qualifier				
Ethylbenzene			800	844		ug/Kg		105	78 - 126
m-Xylene & p-Xylene			800	830		ug/Kg		104	78 - 126
o-Xylene			800	854		ug/Kg		107	77 - 127
Tetrachloroethylene (PCE)			800	885		ug/Kg		111	56 - 155
Trichloroethylene (TCE)			800	834		ug/Kg		104	83 - 124
Xylenes, Total			1600	1680		ug/Kg		105	70 - 130

LCS LCS

Surrogate	LC	LC	%Recovery	Qualifier	Limits
	S	C			
4-Bromofluorobenzene (Surr)	102				70 - 120
Dibromofluoromethane (Surr)	99				75 - 132
1,2-Dichloroethane-d4 (Surr)	99				71 - 136
Toluene-d8 (Surr)	102				80 - 120
Trifluorotoluene (Surr)	101				65 - 140

Lab Sample ID: LCSD 580-191735/3-A

Matrix: Solid

Analysis Batch: 191793

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 191735

Analyte	LC	LC	Spike Added	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	S	C		Result	Qualifier						
Ethylbenzene			800	834		ug/Kg		104	78 - 126	1	23
m-Xylene & p-Xylene			800	830		ug/Kg		104	78 - 126	0	23
o-Xylene			800	856		ug/Kg		107	77 - 127	0	22
Tetrachloroethylene (PCE)			800	901		ug/Kg		113	56 - 155	2	27
Trichloroethylene (TCE)			800	849		ug/Kg		106	83 - 124	2	17
Xylenes, Total			1600	1690		ug/Kg		105	70 - 130	0	30

LCSD LCSD

Surrogate	LC	LC	%Recovery	Qualifier	Limits
	S	C			
4-Bromofluorobenzene (Surr)	99				70 - 120
Dibromofluoromethane (Surr)	100				75 - 132
1,2-Dichloroethane-d4 (Surr)	97				71 - 136
Toluene-d8 (Surr)	100				80 - 120
Trifluorotoluene (Surr)	101				65 - 140

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

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

Lab Sample ID: 580-50580-8 MS

Matrix: Solid

Analysis Batch: 191793

Client Sample ID: WC-3-S-9-11

Prep Type: Total/NA

Prep Batch: 191735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	Limits
Ethylbenzene	3.9	J	1370	1570		ug/Kg	⊗	114	75 - 125	
m-Xylene & p-Xylene	36	J	1370	1610		ug/Kg	⊗	114	80 - 125	
o-Xylene	38	J	1370	1660		ug/Kg	⊗	118	75 - 125	
Tetrachloroethene (PCE)	23	J	1370	1570		ug/Kg	⊗	113	65 - 140	
Trichloroethene (TCE)	40	J	1370	1640		ug/Kg	⊗	116	75 - 125	
Xylenes, Total	74		2750	3270		ug/Kg	⊗	116	70 - 130	
Surrogate	MS %Recovery	MS Qualifier	MS Limits							
4-Bromofluorobenzene (Surr)	101		70 - 120							
Dibromofluoromethane (Surr)	103		75 - 132							
1,2-Dichloroethane-d4 (Surr)	98		71 - 136							
Toluene-d8 (Surr)	99		80 - 120							
Trifluorotoluene (Surr)	112		65 - 140							

Lab Sample ID: 580-50580-8 MSD

Matrix: Solid

Analysis Batch: 191793

Client Sample ID: WC-3-S-9-11

Prep Type: Total/NA

Prep Batch: 191735

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
Ethylbenzene	3.9	J	1370	1680		ug/Kg	⊗	122	75 - 125	6	30
m-Xylene & p-Xylene	36	J	1370	1660		ug/Kg	⊗	118	80 - 125	3	30
o-Xylene	38	J	1370	1690		ug/Kg	⊗	120	75 - 125	2	30
Tetrachloroethene (PCE)	23	J	1370	1610		ug/Kg	⊗	115	65 - 140	2	30
Trichloroethene (TCE)	40	J	1370	1700		ug/Kg	⊗	121	75 - 125	4	30
Xylenes, Total	74		2750	3350		ug/Kg	⊗	119	70 - 130	2	30
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	99		70 - 120								
Dibromofluoromethane (Surr)	102		75 - 132								
1,2-Dichloroethane-d4 (Surr)	100		71 - 136								
Toluene-d8 (Surr)	98		80 - 120								
Trifluorotoluene (Surr)	129		65 - 140								

Lab Sample ID: MB 580-191891/1-A

Matrix: Solid

Analysis Batch: 191902

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	2.82	J	40	2.0	ug/Kg	06/11/15 12:53	06/11/15 15:47		1
m-Xylene & p-Xylene	5.39	J	40	3.0	ug/Kg	06/11/15 12:53	06/11/15 15:47		1
o-Xylene	3.34	J	40	3.0	ug/Kg	06/11/15 12:53	06/11/15 15:47		1
Tetrachloroethene (PCE)	ND		20	5.3	ug/Kg	06/11/15 12:53	06/11/15 15:47		1
Trichloroethene (TCE)	ND		24	3.1	ug/Kg	06/11/15 12:53	06/11/15 15:47		1
Xylenes, Total	8.73	J	40	3.0	ug/Kg	06/11/15 12:53	06/11/15 15:47		1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120				06/11/15 12:53	06/11/15 15:47	1

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

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

Lab Sample ID: MB 580-191891/1-A

Matrix: Solid

Analysis Batch: 191902

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191891

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)		104			75 - 132	06/11/15 12:53	06/11/15 15:47	1
1,2-Dichloroethane-d4 (Surr)		114			71 - 136	06/11/15 12:53	06/11/15 15:47	1
Toluene-d8 (Surr)		98			80 - 120	06/11/15 12:53	06/11/15 15:47	1
Trifluorotoluene (Surr)		97			65 - 140	06/11/15 12:53	06/11/15 15:47	1

Lab Sample ID: LCS 580-191891/2-A

Matrix: Solid

Analysis Batch: 191902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 191891

Analyte	LCS	LCS	Spike Added	Result	Qualifier	Unit	D	%Rec	Limits	%Rec.	RPD
Ethylbenzene			800	876		ug/Kg		109	78 - 126		
m-Xylene & p-Xylene			800	892		ug/Kg		111	78 - 126		
o-Xylene			800	914		ug/Kg		114	77 - 127		
Tetrachloroethylene (PCE)			800	924		ug/Kg		115	56 - 155		
Trichloroethylene (TCE)			800	908		ug/Kg		113	83 - 124		
Xylenes, Total			1600	1810		ug/Kg		113	70 - 130		

LCS LCS

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105				70 - 120
Dibromofluoromethane (Surr)	107				75 - 132
1,2-Dichloroethane-d4 (Surr)	111				71 - 136
Toluene-d8 (Surr)	99				80 - 120
Trifluorotoluene (Surr)	97				65 - 140

Lab Sample ID: LCSD 580-191891/3-A

Matrix: Solid

Analysis Batch: 191902

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 191891

Analyte	LCSD	LCSD	Spike Added	Result	Qualifier	Unit	D	%Rec	Limits	%Rec.	RPD
Ethylbenzene			800	882		ug/Kg		110	78 - 126		1
m-Xylene & p-Xylene			800	882		ug/Kg		110	78 - 126		1
o-Xylene			800	920		ug/Kg		115	77 - 127		1
Tetrachloroethylene (PCE)			800	971		ug/Kg		121	56 - 155		5
Trichloroethylene (TCE)			800	929		ug/Kg		116	83 - 124		2
Xylenes, Total			1600	1800		ug/Kg		113	70 - 130		0

LCSD LCSD

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103				70 - 120
Dibromofluoromethane (Surr)	99				75 - 132
1,2-Dichloroethane-d4 (Surr)	104				71 - 136
Toluene-d8 (Surr)	96				80 - 120
Trifluorotoluene (Surr)	101				65 - 140

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

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

Lab Sample ID: 580-50580-27 MS

Matrix: Solid

Analysis Batch: 191902

Client Sample ID: WC-9-S-13-15

Prep Type: Total/NA

Prep Batch: 191891

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Ethylbenzene	29	J F1 B	1330	2000	F1	ug/Kg	⊗	148	75 - 125
m-Xylene & p-Xylene	7.1	J F1 B	1330	1950	F1	ug/Kg	⊗	146	80 - 125
o-Xylene	ND	F1	1330	1990	F1	ug/Kg	⊗	150	75 - 125
Tetrachloroethene (PCE)	ND	F1	1330	1960	F1	ug/Kg	⊗	148	65 - 140
Trichloroethene (TCE)	ND	F1	1330	1980	F1	ug/Kg	⊗	150	75 - 125
Xylenes, Total	7.1	J B F1	2650	3940	F1	ug/Kg	⊗	148	70 - 130
MS MS									
Surrogate	%Recovery	Qualifier		Limits					
4-Bromofluorobenzene (Surr)	100			70 - 120					
Dibromofluoromethane (Surr)	101			75 - 132					
1,2-Dichloroethane-d4 (Surr)	97			71 - 136					
Toluene-d8 (Surr)	99			80 - 120					
Trifluorotoluene (Surr)	121			65 - 140					

Lab Sample ID: 580-50580-27 MSD

Matrix: Solid

Analysis Batch: 191902

Client Sample ID: WC-9-S-13-15

Prep Type: Total/NA

Prep Batch: 191891

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Ethylbenzene	29	J F1 B	1330	1710	F1	ug/Kg	⊗	127	75 - 125
m-Xylene & p-Xylene	7.1	J F1 B	1330	1670		ug/Kg	⊗	125	80 - 125
o-Xylene	ND	F1	1330	1710	F1	ug/Kg	⊗	129	75 - 125
Tetrachloroethene (PCE)	ND	F1	1330	1680		ug/Kg	⊗	127	65 - 140
Trichloroethene (TCE)	ND	F1	1330	1680	F1	ug/Kg	⊗	126	75 - 125
Xylenes, Total	7.1	J B F1	2650	3380		ug/Kg	⊗	127	70 - 130
MSD MSD									
Surrogate	%Recovery	Qualifier		Limits					
4-Bromofluorobenzene (Surr)	100			70 - 120					
Dibromofluoromethane (Surr)	103			75 - 132					
1,2-Dichloroethane-d4 (Surr)	105			71 - 136					
Toluene-d8 (Surr)	100			80 - 120					
Trifluorotoluene (Surr)	123			65 - 140					

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Lab Sample ID: MB 580-191640/1-A

Matrix: Solid

Analysis Batch: 191669

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191640

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO) -C6-C10	ND		4.0		mg/Kg		06/09/15 14:09	06/09/15 22:18	1
MB MB									
Surrogate	%Recovery	Qualifier		Limits					
Trifluorotoluene (Surr)	104			50 - 150					
4-Bromofluorobenzene (Surr)	94			50 - 150					
				Prepared					
				06/09/15 14:09					
				06/09/15 22:18					
				Analyzed					
				06/09/15 14:09					
				06/09/15 22:18					
				Dil Fac					
				1					

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Method: AK101 - Alaska - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCS 580-191640/2-A

Matrix: Solid

Analysis Batch: 191669

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 191640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Gasoline Range Organics (GRO) -C6-C10	40.0	39.3		mg/Kg		98	60 - 120

Surrogate LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Trifluorotoluene (Surr)	101		50 - 150
4-Bromofluorobenzene (Surr)	101		50 - 150

Lab Sample ID: LCSD 580-191640/3-A

Matrix: Solid

Analysis Batch: 191669

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 191640

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Gasoline Range Organics (GRO) -C6-C10	40.0	39.9		mg/Kg		100	60 - 120	2

Surrogate LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
Trifluorotoluene (Surr)	103		50 - 150
4-Bromofluorobenzene (Surr)	100		50 - 150

Lab Sample ID: MB 580-191747/1-A

Matrix: Solid

Analysis Batch: 191771

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191747

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.0		mg/Kg		06/10/15 13:24	06/10/15 18:54	1

Surrogate MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	105		50 - 150	06/10/15 13:24	06/10/15 18:54	1
4-Bromofluorobenzene (Surr)	94		50 - 150	06/10/15 13:24	06/10/15 18:54	1

Lab Sample ID: LCS 580-191747/2-A

Matrix: Solid

Analysis Batch: 191771

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 191747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Gasoline Range Organics (GRO) -C6-C10	40.0	40.9		mg/Kg		102	60 - 120

Surrogate LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Trifluorotoluene (Surr)	103		50 - 150
4-Bromofluorobenzene (Surr)	102		50 - 150

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Method: AK101 - Alaska - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 580-191747/3-A

Matrix: Solid

Analysis Batch: 191771

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 191747

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	40.0	39.9		mg/Kg		100	60 - 120	2 20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Trifluorotoluene (Surr)	105		50 - 150
4-Bromofluorobenzene (Surr)	101		50 - 150

Lab Sample ID: MB 580-191870/1-A

Matrix: Solid

Analysis Batch: 191893

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.0		mg/Kg		06/11/15 11:43	06/11/15 14:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	108		50 - 150	06/11/15 11:43	06/11/15 14:56	1
4-Bromofluorobenzene (Surr)	93		50 - 150	06/11/15 11:43	06/11/15 14:56	1

Lab Sample ID: LCS 580-191870/2-A

Matrix: Solid

Analysis Batch: 191893

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 191870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Gasoline Range Organics (GRO) -C6-C10	40.0	38.2		mg/Kg		96	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Trifluorotoluene (Surr)	103		50 - 150
4-Bromofluorobenzene (Surr)	100		50 - 150

Lab Sample ID: LCSD 580-191870/3-A

Matrix: Solid

Analysis Batch: 191893

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 191870

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	40.0	37.6		mg/Kg		94	60 - 120	2 20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Trifluorotoluene (Surr)	103		50 - 150
4-Bromofluorobenzene (Surr)	100		50 - 150

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-191594/1-A

Matrix: Solid

Analysis Batch: 191953

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010		mg/Kg		06/09/15 09:37	06/12/15 15:11	1
PCB-1221	ND		0.011		mg/Kg		06/09/15 09:37	06/12/15 15:11	1
PCB-1232	ND		0.011		mg/Kg		06/09/15 09:37	06/12/15 15:11	1
PCB-1242	ND		0.010		mg/Kg		06/09/15 09:37	06/12/15 15:11	1
PCB-1248	ND		0.011		mg/Kg		06/09/15 09:37	06/12/15 15:11	1
PCB-1254	ND		0.010		mg/Kg		06/09/15 09:37	06/12/15 15:11	1
PCB-1260	ND		0.010		mg/Kg		06/09/15 09:37	06/12/15 15:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		45 - 135	06/09/15 09:37	06/12/15 15:11	1
DCB Decachlorobiphenyl	84		50 - 140	06/09/15 09:37	06/12/15 15:11	1

Lab Sample ID: LCS 580-191594/2-A

Matrix: Solid

Analysis Batch: 191953

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 191594

Lab Sample ID: LCSD 580-191594/3-A

Matrix: Solid

Analysis Batch: 191953

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 191594

Lab Sample ID: 580-50580-1 MS

Matrix: Solid

Analysis Batch: 191953

Client Sample ID: WC-1-S-0-2

Prep Type: Total/NA

Prep Batch: 191594

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 580-50580-1 MSD

Matrix: Solid

Analysis Batch: 191953

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier					
PCB-1016	ND		0.102	0.0794		mg/Kg	⊗	78	40 - 140	4 20
PCB-1260	ND		0.102	0.0857		mg/Kg	⊗	78	60 - 130	3 20
Surrogate										
Tetrachloro-m-xylene	78			45 - 135						
DCB Decachlorobiphenyl	98			50 - 140						

Lab Sample ID: MB 580-191601/1-A

Matrix: Solid

Analysis Batch: 191726

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.010		mg/Kg	06/09/15 09:55	06/10/15 18:31		1
PCB-1221	ND		0.011		mg/Kg	06/09/15 09:55	06/10/15 18:31		1
PCB-1232	ND		0.011		mg/Kg	06/09/15 09:55	06/10/15 18:31		1
PCB-1242	ND		0.010		mg/Kg	06/09/15 09:55	06/10/15 18:31		1
PCB-1248	ND		0.011		mg/Kg	06/09/15 09:55	06/10/15 18:31		1
PCB-1254	ND		0.010		mg/Kg	06/09/15 09:55	06/10/15 18:31		1
PCB-1260	ND		0.010		mg/Kg	06/09/15 09:55	06/10/15 18:31		1
Surrogate									
Tetrachloro-m-xylene	77		45 - 135				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		50 - 140				06/09/15 09:55	06/10/15 18:31	1
							06/09/15 09:55	06/10/15 18:31	1

Lab Sample ID: MB 580-191601/1-A

Matrix: Solid

Analysis Batch: 191726

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.010		mg/Kg	06/09/15 09:55	06/11/15 07:12		1
PCB-1221	ND		0.011		mg/Kg	06/09/15 09:55	06/11/15 07:12		1
PCB-1232	ND		0.011		mg/Kg	06/09/15 09:55	06/11/15 07:12		1
PCB-1242	ND		0.010		mg/Kg	06/09/15 09:55	06/11/15 07:12		1
PCB-1248	ND		0.011		mg/Kg	06/09/15 09:55	06/11/15 07:12		1
PCB-1254	ND		0.010		mg/Kg	06/09/15 09:55	06/11/15 07:12		1
PCB-1260	ND		0.010		mg/Kg	06/09/15 09:55	06/11/15 07:12		1
Surrogate									
Tetrachloro-m-xylene	77		45 - 135				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		50 - 140				06/09/15 09:55	06/11/15 07:12	1
							06/09/15 09:55	06/11/15 07:12	1

Lab Sample ID: MB 580-191601/1-A

Matrix: Solid

Analysis Batch: 191872

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.010		mg/Kg	06/09/15 09:55	06/11/15 14:14		1

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 580-191601/1-A

Matrix: Solid

Analysis Batch: 191872

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191601

Analyte	MB		Result	Qualifier	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	MB	MB							Prepared	Analyzed			
PCB-1221	ND				0.011		mg/Kg		06/09/15 09:55	06/11/15 14:14			1
PCB-1232	ND				0.011		mg/Kg		06/09/15 09:55	06/11/15 14:14			1
PCB-1242	ND				0.010		mg/Kg		06/09/15 09:55	06/11/15 14:14			1
PCB-1248	ND				0.011		mg/Kg		06/09/15 09:55	06/11/15 14:14			1
PCB-1254	ND				0.010		mg/Kg		06/09/15 09:55	06/11/15 14:14			1
PCB-1260	ND				0.010		mg/Kg		06/09/15 09:55	06/11/15 14:14			1

Surrogate	MB		%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	MB	MB						
Tetrachloro-m-xylene	83				45 - 135			
DCB Decachlorobiphenyl	103				50 - 140			

Lab Sample ID: LCS 580-191601/2-A

Matrix: Solid

Analysis Batch: 191726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 191601

Analyte	LCS		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
	LCS	LCS							Limits	
PCB-1016			0.100	0.0901		mg/Kg		90	40 - 140	
PCB-1260			0.100	0.0928		mg/Kg		93	60 - 130	
Surrogate	LCS		%Recovery	Qualifier	Limits	Prepared		Dil Fac	%Rec.	
	LCS	LCS							Limits	
Tetrachloro-m-xylene	78				45 - 135					
DCB Decachlorobiphenyl	104				50 - 140					

Lab Sample ID: LCSD 580-191601/3-A

Matrix: Solid

Analysis Batch: 191726

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 191601

Analyte	LCSD		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD
	LCSD	LCSD							Limits		
PCB-1016			0.100	0.0887		mg/Kg		89	40 - 140		2
PCB-1260			0.100	0.0889		mg/Kg		89	60 - 130		4
Surrogate	LCSD		%Recovery	Qualifier	Limits	Prepared		Dil Fac	%Rec.		Limit
	LCSD	LCSD							Limits		
Tetrachloro-m-xylene	76				45 - 135						
DCB Decachlorobiphenyl	99				50 - 140						

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Lab Sample ID: MB 580-191612/1-A

Matrix: Solid

Analysis Batch: 191696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191612

Analyte	MB		Result	Qualifier	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	MB	MB							Prepared	Analyzed			
DRO (nC10-<nC25)	ND				20		mg/Kg		06/09/15 10:58	06/10/15 07:17			1
Surrogate	MB		%Recovery	Qualifier	Limits	Prepared		Dil Fac	%Rec.				
	MB	MB							Prepared	Analyzed			
<i>o-Terphenyl</i>	65				50 - 150				06/09/15 10:58	06/10/15 07:17			1

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC) **(Continued)**

Lab Sample ID: LCS 580-191612/2-A

Matrix: Solid

Analysis Batch: 191696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 191612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
DRO (nC10-<nC25)	500	402		mg/Kg		80	75 - 125
Surrogate	LCS %Recovery	LCS Qualifier	Limits				Limits
<i>o-Terphenyl</i>	82		50 - 150				

Lab Sample ID: LCSD 580-191612/3-A

Matrix: Solid

Analysis Batch: 191696

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 191612

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD
DRO (nC10-<nC25)	500	374		mg/Kg		75	75 - 125	
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits				Limits	RPD
<i>o-Terphenyl</i>	75		50 - 150					20

Lab Sample ID: 580-50580-1 MS

Matrix: Solid

Analysis Batch: 191696

Client Sample ID: WC-1-S-0-2

Prep Type: Total/NA

Prep Batch: 191612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.
DRO (nC10-<nC25)	20	Y	511	407		mg/Kg	⊗	76	75 - 125
Surrogate	MS %Recovery	MS Qualifier	Limits						Limits
<i>o-Terphenyl</i>	81		50 - 150						

Lab Sample ID: 580-50580-1 MSD

Matrix: Solid

Analysis Batch: 191696

Client Sample ID: WC-1-S-0-2

Prep Type: Total/NA

Prep Batch: 191612

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.
DRO (nC10-<nC25)	20	Y	496	397		mg/Kg	⊗	76	75 - 125
Surrogate	MSD %Recovery	MSD Qualifier	Limits						RPD
<i>o-Terphenyl</i>	78		50 - 150						20

Lab Sample ID: 580-50580-20 DU

Matrix: Solid

Analysis Batch: 191696

Client Sample ID: WC-7-S-11-13

Prep Type: Total/NA

Prep Batch: 191612

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D		RPD
DRO (nC10-<nC25)	8100	Y		7850		mg/Kg	⊗		
Surrogate	DU %Recovery	DU Qualifier	Limits						Limit
<i>o-Terphenyl</i>	92		50 - 150						20

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC) **(Continued)**

Lab Sample ID: MB 580-191627/1-A

Matrix: Solid

Analysis Batch: 191824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 191627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit mg/Kg	D	Prepared 06/09/15 13:40	Analyzed 06/12/15 09:20	Dil Fac
DRO (nC10-<nC25)	ND		20						1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared 06/09/15 13:40	Analyzed 06/12/15 09:20	
<i>o-Terphenyl</i>	85		50 - 150						1

Lab Sample ID: LCS 580-191627/2-A

Matrix: Solid

Analysis Batch: 191824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 191627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit mg/Kg	D	%Rec.	Limits
DRO (nC10-<nC25)	500	410				82	75 - 125
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
<i>o-Terphenyl</i>	82		50 - 150				

Lab Sample ID: LCSD 580-191627/3-A

Matrix: Solid

Analysis Batch: 191824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 191627

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit mg/Kg	D	%Rec.	RPD	Limit
DRO (nC10-<nC25)	500	423				85	75 - 125	3
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits					
<i>o-Terphenyl</i>	88		50 - 150					

Lab Sample ID: 580-50580-23 MS

Matrix: Solid

Analysis Batch: 191824

Client Sample ID: WC-8-S-9-11
Prep Type: Total/NA
Prep Batch: 191627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit mg/Kg	D	%Rec.	Limits
DRO (nC10-<nC25)	ND		528	414			⊗	76	75 - 125
Surrogate	MS %Recovery	MS Qualifier	Limits						
<i>o-Terphenyl</i>	75		50 - 150						

Lab Sample ID: 580-50580-23 MSD

Matrix: Solid

Analysis Batch: 191824

Client Sample ID: WC-8-S-9-11
Prep Type: Total/NA
Prep Batch: 191627

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit mg/Kg	D	%Rec.	RPD	Limit
DRO (nC10-<nC25)	ND		529	434			⊗	80	75 - 125	5
Surrogate	MSD %Recovery	MSD Qualifier	Limits							
<i>o-Terphenyl</i>	83		50 - 150							

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Method: D 2216 - Percent Moisture

Lab Sample ID: 580-50580-1 DU

Matrix: Solid

Analysis Batch: 192099

Client Sample ID: WC-1-S-0-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	95		94		%		1	20
Percent Moisture	4.6		5.7	F3	%		21	20

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-1-S-0-2

Date Collected: 06/04/15 14:30

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-1-S-0-2

Date Collected: 06/04/15 14:30

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-1

Matrix: Solid

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191616	06/09/15 11:45	STA	TAL SEA
Total/NA	Analysis	8260B		1	191458	06/10/15 06:48	CJ	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/09/15 23:51	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 16:01	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 08:06	EKK	TAL SEA

Client Sample ID: WC-1-S-4-6

Date Collected: 06/04/15 15:00

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-1-S-4-6

Date Collected: 06/04/15 15:00

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-2

Matrix: Solid

Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191616	06/09/15 11:45	STA	TAL SEA
Total/NA	Analysis	8260B		1	191458	06/10/15 07:20	CJ	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 00:22	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 16:51	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 08:54	EKK	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-1-S-13-15

Date Collected: 06/04/15 15:20
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-1-S-13-15

Date Collected: 06/04/15 15:20
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-3

Matrix: Solid

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191616	06/09/15 11:45	STA	TAL SEA
Total/NA	Analysis	8260B		1	192252	06/16/15 15:18	CJ	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 00:53	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 17:07	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 09:10	EKK	TAL SEA

Client Sample ID: WC-2-S-0-2

Date Collected: 06/04/15 13:15
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-2-S-0-2

Date Collected: 06/04/15 13:15
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-4

Matrix: Solid

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191616	06/09/15 11:45	STA	TAL SEA
Total/NA	Analysis	8260B		1	192252	06/16/15 15:49	CJ	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 01:24	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 17:24	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 09:26	EKK	TAL SEA

Client Sample ID: WC-2-S-4-6

Date Collected: 06/04/15 13:40
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-2-S-4-6

Date Collected: 06/04/15 13:40

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-5

Matrix: Solid

Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191616	06/09/15 11:45	STA	TAL SEA
Total/NA	Analysis	8260B		1	192252	06/16/15 16:21	CJ	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 01:55	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 17:41	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 09:43	EKK	TAL SEA

Client Sample ID: WC-2-S-13-15

Date Collected: 06/04/15 14:00

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-2-S-13-15

Date Collected: 06/04/15 14:00

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-6

Matrix: Solid

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191616	06/09/15 11:45	STA	TAL SEA
Total/NA	Analysis	8260B		1	192252	06/16/15 16:52	CJ	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 02:26	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 18:31	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 10:15	EKK	TAL SEA

Client Sample ID: WC-3-S-0-2

Date Collected: 06/03/15 08:30

Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-3-S-0-2

Date Collected: 06/03/15 08:30
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-7

Matrix: Solid
Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191616	06/09/15 11:45	STA	TAL SEA
Total/NA	Analysis	8260B		1	191966	06/12/15 19:29	TL1	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 02:57	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 18:48	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 10:31	EKK	TAL SEA

Client Sample ID: WC-3-S-9-11

Date Collected: 06/03/15 09:25
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-3-S-9-11

Date Collected: 06/03/15 09:25
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-8

Matrix: Solid
Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/10/15 18:17	TL1	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 03:58	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 19:04	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 10:47	EKK	TAL SEA

Client Sample ID: WC-3-S-13-15

Date Collected: 06/03/15 09:45
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-3-S-13-15

Date Collected: 06/03/15 09:45
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-9

Matrix: Solid
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-3-S-13-15

Date Collected: 06/03/15 09:45
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-9

Matrix: Solid
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	191793	06/10/15 23:13	TL1	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 04:29	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 19:21	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 11:04	EKK	TAL SEA

Client Sample ID: WC-4-S-0-2

Date Collected: 06/03/15 10:15
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-4-S-0-2

Date Collected: 06/03/15 10:15
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-10

Matrix: Solid
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/10/15 23:46	TL1	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 05:00	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 19:37	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 11:20	EKK	TAL SEA

Client Sample ID: WC-4-S-13-15

Date Collected: 06/03/15 11:05
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-4-S-13-15

Date Collected: 06/03/15 11:05
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-11

Matrix: Solid
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 00:19	TL1	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-4-S-13-15

Date Collected: 06/03/15 11:05
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-11

Matrix: Solid
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 05:31	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 19:54	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 11:36	EKK	TAL SEA

Client Sample ID: WC-4-S-9-11

Date Collected: 06/03/15 10:45
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-12

Matrix: Solid
Percent Solids: 100

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-4-S-9-11

Date Collected: 06/03/15 10:45
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-12

Matrix: Solid
Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 00:52	TL1	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 06:02	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 20:11	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 11:52	EKK	TAL SEA

Client Sample ID: WC-5-S-13-15

Date Collected: 06/03/15 12:05
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-13

Matrix: Solid
Percent Solids: 100

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-5-S-13-15

Date Collected: 06/03/15 12:05
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-13

Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 01:25	TL1	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-5-S-13-15

Date Collected: 06/03/15 12:05
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-13

Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	191669	06/10/15 06:33	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 20:28	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 12:08	EKK	TAL SEA

Client Sample ID: WC-5-S-0-2

Date Collected: 06/03/15 11:20
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-5-S-0-2

Date Collected: 06/03/15 11:20
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-14

Matrix: Solid
Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 01:58	TL1	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 07:04	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 20:44	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 12:25	EKK	TAL SEA

Client Sample ID: WC-5-S-9-11

Date Collected: 06/03/15 11:50
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-5-S-9-11

Date Collected: 06/03/15 11:50
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-15

Matrix: Solid
Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 02:31	TL1	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 07:35	D1R	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-5-S-9-11

Date Collected: 06/03/15 11:50
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-15

Matrix: Solid
Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 21:01	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 12:41	EKK	TAL SEA

Client Sample ID: WC-6-S-0-2

Date Collected: 06/03/15 15:05
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-6-S-0-2

Date Collected: 06/03/15 15:05
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-16

Matrix: Solid
Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 03:03	TL1	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 08:06	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 21:51	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 13:13	EKK	TAL SEA

Client Sample ID: WC-6-S-9-11

Date Collected: 06/03/15 15:30
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-6-S-9-11

Date Collected: 06/03/15 15:30
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-17

Matrix: Solid
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 03:36	TL1	TAL SEA
Total/NA	Prep	5035	DL		191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B	DL	1	192252	06/16/15 19:26	CJ	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-6-S-9-11

Date Collected: 06/03/15 15:30
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-17

Matrix: Solid
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	191893	06/12/15 04:38	CJ	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 22:08	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 13:29	EKK	TAL SEA

Client Sample ID: WC-6-S-13-15

Date Collected: 06/03/15 16:00
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-6-S-13-15

Date Collected: 06/03/15 16:00
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-18

Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 04:09	TL1	TAL SEA
Total/NA	Prep	5035	DL		191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B	DL	1	192252	06/16/15 19:57	CJ	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 09:39	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 22:25	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 13:46	EKK	TAL SEA

Client Sample ID: WC-7-S-0-2

Date Collected: 06/04/15 11:00
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-7-S-0-2

Date Collected: 06/04/15 11:00
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-19

Matrix: Solid
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 04:42	TL1	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-7-S-0-2

Date Collected: 06/04/15 11:00
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-19

Matrix: Solid
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B	RA	1	192252	06/16/15 17:23	CJ	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191893	06/12/15 04:07	CJ	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 22:41	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 14:02	EKK	TAL SEA

Client Sample ID: WC-7-S-11-13

Date Collected: 06/04/15 11:10
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	192099	06/13/15 18:10	ERZ	TAL SEA

Client Sample ID: WC-7-S-11-13

Date Collected: 06/04/15 11:10
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-20

Matrix: Solid
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 05:14	TL1	TAL SEA
Total/NA	Prep	5035	DL		191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B	DL	1	192252	06/16/15 20:28	CJ	TAL SEA
Total/NA	Prep	5035			191640	06/09/15 14:09	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191669	06/10/15 10:41	D1R	TAL SEA
Total/NA	Prep	3550B			191594	06/09/15 09:37	RBL	TAL SEA
Total/NA	Analysis	8082		1	191953	06/12/15 22:58	ALC	TAL SEA
Total/NA	Prep	3546			191612	06/09/15 10:58	DCC	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191696	06/10/15 14:18	EKK	TAL SEA

Client Sample ID: WC-7-S-13-15

Date Collected: 06/04/15 11:35
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-7-S-13-15

Date Collected: 06/04/15 11:35
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-21

Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 05:47	TL1	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/10/15 21:15	D1R	TAL SEA
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191872	06/11/15 14:31	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/12/15 11:01	EKK	TAL SEA

Client Sample ID: WC-8-S-0-2

Date Collected: 06/04/15 12:15
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

Client Sample ID: WC-8-S-0-2

Date Collected: 06/04/15 12:15
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-22

Matrix: Solid
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 06:20	TL1	TAL SEA
Total/NA	Prep	5035	RA		191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B	RA	1	192252	06/16/15 17:54	CJ	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/10/15 21:46	D1R	TAL SEA
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191726	06/10/15 21:44	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/11/15 08:59	EKK	TAL SEA

Client Sample ID: WC-8-S-9-11

Date Collected: 06/04/15 12:35
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-8-S-9-11

Date Collected: 06/04/15 12:35
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-23

Matrix: Solid
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 06:52	TL1	TAL SEA
Total/NA	Prep	5035	RA		191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B	RA	1	192252	06/16/15 18:25	CJ	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/10/15 22:17	D1R	TAL SEA
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191726	06/10/15 22:01	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/11/15 09:17	EKK	TAL SEA

Client Sample ID: WC-8-S-13-15

Date Collected: 06/04/15 12:55
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

Client Sample ID: WC-8-S-13-15

Date Collected: 06/04/15 12:55
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-24

Matrix: Solid
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 07:25	TL1	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/10/15 22:48	D1R	TAL SEA
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191726	06/10/15 22:18	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/11/15 09:35	EKK	TAL SEA

Client Sample ID: WC-9-S-0-2

Date Collected: 06/04/15 09:40
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-9-S-0-2

Date Collected: 06/04/15 09:40
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-25

Matrix: Solid
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 07:58	TL1	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/10/15 23:19	D1R	TAL SEA
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191726	06/10/15 23:08	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/11/15 09:53	EKK	TAL SEA

Client Sample ID: WC-9-S-9-11

Date Collected: 06/04/15 10:00
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

Client Sample ID: WC-9-S-9-11

Date Collected: 06/04/15 10:00
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-26

Matrix: Solid
Percent Solids: 72.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191735	06/10/15 12:04	STA	TAL SEA
Total/NA	Analysis	8260B		1	191793	06/11/15 08:31	TL1	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/10/15 23:50	D1R	TAL SEA
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191726	06/10/15 23:24	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/11/15 10:11	EKK	TAL SEA

Client Sample ID: WC-9-S-13-15

Date Collected: 06/04/15 10:10
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

Client Sample ID: WC-9-S-13-15

Date Collected: 06/04/15 10:10
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-27

Matrix: Solid
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191891	06/11/15 12:53	STA	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-9-S-13-15

Date Collected: 06/04/15 10:10
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-27

Matrix: Solid
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	191902	06/11/15 18:32	D1R	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/11/15 00:52	D1R	TAL SEA
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191726	06/10/15 23:41	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/11/15 10:28	EKK	TAL SEA

Client Sample ID: WC-10-S-0-2

Date Collected: 06/03/15 14:00
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-28

Matrix: Solid
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

Client Sample ID: WC-10-S-0-2

Date Collected: 06/03/15 14:00
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-28

Matrix: Solid
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191891	06/11/15 12:53	STA	TAL SEA
Total/NA	Analysis	8260B		1	191902	06/11/15 20:10	D1R	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/11/15 01:23	D1R	TAL SEA
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191726	06/10/15 23:58	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/11/15 11:04	EKK	TAL SEA

Client Sample ID: WC-10-S-9-11

Date Collected: 06/03/15 14:25
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-29

Matrix: Solid
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

Client Sample ID: WC-10-S-9-11

Date Collected: 06/03/15 14:25
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-29

Matrix: Solid
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191891	06/11/15 12:53	STA	TAL SEA
Total/NA	Analysis	8260B		1	191902	06/11/15 20:43	D1R	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: WC-10-S-9-11

Date Collected: 06/03/15 14:25
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-29

Matrix: Solid
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/11/15 01:54	D1R	TAL SEA
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191726	06/11/15 00:14	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/11/15 11:22	EKK	TAL SEA

Client Sample ID: WC-10-S-13-15

Date Collected: 06/03/15 14:55
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-30

Matrix: Solid
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

Client Sample ID: WC-10-S-13-15

Date Collected: 06/03/15 14:55
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-30

Matrix: Solid
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191891	06/11/15 12:53	STA	TAL SEA
Total/NA	Analysis	8260B		1	191902	06/11/15 21:16	D1R	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/11/15 02:25	D1R	TAL SEA
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191726	06/11/15 00:31	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/11/15 11:40	EKK	TAL SEA

Client Sample ID: BD-1-S

Date Collected: 06/03/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

Client Sample ID: BD-1-S

Date Collected: 06/03/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-31

Matrix: Solid
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191891	06/11/15 12:53	STA	TAL SEA
Total/NA	Analysis	8260B		1	191902	06/11/15 21:48	D1R	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: BD-1-S

Date Collected: 06/03/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-31

Matrix: Solid
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	191771	06/11/15 02:56	D1R	TAL SEA
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191726	06/11/15 00:47	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/11/15 12:53	EKK	TAL SEA

Client Sample ID: BD-2-S

Date Collected: 06/03/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-32

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

Client Sample ID: BD-2-S

Date Collected: 06/03/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-32

Matrix: Solid
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191891	06/11/15 12:53	STA	TAL SEA
Total/NA	Analysis	8260B		1	191902	06/11/15 22:21	D1R	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/11/15 03:27	D1R	TAL SEA
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191726	06/11/15 01:04	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/11/15 13:11	EKK	TAL SEA

Client Sample ID: BD-3-S

Date Collected: 06/04/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-33

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

Client Sample ID: BD-3-S

Date Collected: 06/04/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-33

Matrix: Solid
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191891	06/11/15 12:53	STA	TAL SEA
Total/NA	Analysis	8260B		1	191902	06/11/15 22:54	D1R	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/11/15 03:58	D1R	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Client Sample ID: BD-3-S

Date Collected: 06/04/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-33

Matrix: Solid
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191726	06/11/15 06:06	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/11/15 13:29	EKK	TAL SEA

Client Sample ID: BD-4-S

Date Collected: 06/04/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-34

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	191639	06/09/15 13:58	DCV	TAL SEA

Client Sample ID: BD-4-S

Date Collected: 06/04/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-34

Matrix: Solid
Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			191891	06/11/15 12:53	STA	TAL SEA
Total/NA	Analysis	8260B		1	191902	06/11/15 23:27	D1R	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/11/15 04:28	D1R	TAL SEA
Total/NA	Prep	3550B			191601	06/09/15 09:55	DCC	TAL SEA
Total/NA	Analysis	8082		1	191726	06/11/15 06:22	ALC	TAL SEA
Total/NA	Prep	3546			191627	06/09/15 13:40	DCV	TAL SEA
Total/NA	Analysis	AK102 & 103		1	191824	06/11/15 13:47	EKK	TAL SEA

Client Sample ID: Trip Blanks

Date Collected: 06/03/15 00:01
Date Received: 06/06/15 09:30

Lab Sample ID: 580-50580-35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	DL		191891	06/11/15 12:53	STA	TAL SEA
Total/NA	Analysis	8260B	DL	1	191902	06/11/15 17:26	D1R	TAL SEA
Total/NA	Prep	5035			191747	06/10/15 13:27	EPB	TAL SEA
Total/NA	Analysis	AK101		1	191771	06/10/15 20:44	D1R	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TestAmerica Seattle

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-15
US Fish & Wildlife	Federal		LE192332-0	02-28-16
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-16

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TestAmerica Seattle

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: GE- Nikiski

TestAmerica Job ID: 580-50580-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-50580-1	WC-1-S-0-2	Solid	06/04/15 14:30	06/06/15 09:30
580-50580-2	WC-1-S-4-6	Solid	06/04/15 15:00	06/06/15 09:30
580-50580-3	WC-1-S-13-15	Solid	06/04/15 15:20	06/06/15 09:30
580-50580-4	WC-2-S-0-2	Solid	06/04/15 13:15	06/06/15 09:30
580-50580-5	WC-2-S-4-6	Solid	06/04/15 13:40	06/06/15 09:30
580-50580-6	WC-2-S-13-15	Solid	06/04/15 14:00	06/06/15 09:30
580-50580-7	WC-3-S-0-2	Solid	06/03/15 08:30	06/06/15 09:30
580-50580-8	WC-3-S-9-11	Solid	06/03/15 09:25	06/06/15 09:30
580-50580-9	WC-3-S-13-15	Solid	06/03/15 09:45	06/06/15 09:30
580-50580-10	WC-4-S-0-2	Solid	06/03/15 10:15	06/06/15 09:30
580-50580-11	WC-4-S-13-15	Solid	06/03/15 11:05	06/06/15 09:30
580-50580-12	WC-4-S-9-11	Solid	06/03/15 10:45	06/06/15 09:30
580-50580-13	WC-5-S-13-15	Solid	06/03/15 12:05	06/06/15 09:30
580-50580-14	WC-5-S-0-2	Solid	06/03/15 11:20	06/06/15 09:30
580-50580-15	WC-5-S-9-11	Solid	06/03/15 11:50	06/06/15 09:30
580-50580-16	WC-6-S-0-2	Solid	06/03/15 15:05	06/06/15 09:30
580-50580-17	WC-6-S-9-11	Solid	06/03/15 15:30	06/06/15 09:30
580-50580-18	WC-6-S-13-15	Solid	06/03/15 16:00	06/06/15 09:30
580-50580-19	WC-7-S-0-2	Solid	06/04/15 11:00	06/06/15 09:30
580-50580-20	WC-7-S-11-13	Solid	06/04/15 11:10	06/06/15 09:30
580-50580-21	WC-7-S-13-15	Solid	06/04/15 11:35	06/06/15 09:30
580-50580-22	WC-8-S-0-2	Solid	06/04/15 12:15	06/06/15 09:30
580-50580-23	WC-8-S-9-11	Solid	06/04/15 12:35	06/06/15 09:30
580-50580-24	WC-8-S-13-15	Solid	06/04/15 12:55	06/06/15 09:30
580-50580-25	WC-9-S-0-2	Solid	06/04/15 09:40	06/06/15 09:30
580-50580-26	WC-9-S-9-11	Solid	06/04/15 10:00	06/06/15 09:30
580-50580-27	WC-9-S-13-15	Solid	06/04/15 10:10	06/06/15 09:30
580-50580-28	WC-10-S-0-2	Solid	06/03/15 14:00	06/06/15 09:30
580-50580-29	WC-10-S-9-11	Solid	06/03/15 14:25	06/06/15 09:30
580-50580-30	WC-10-S-13-15	Solid	06/03/15 14:55	06/06/15 09:30
580-50580-31	BD-1-S	Solid	06/03/15 00:01	06/06/15 09:30
580-50580-32	BD-2-S	Solid	06/03/15 00:01	06/06/15 09:30
580-50580-33	BD-3-S	Solid	06/04/15 00:01	06/06/15 09:30
580-50580-34	BD-4-S	Solid	06/04/15 00:01	06/06/15 09:30
580-50580-35	Trip Blanks	Solid	06/03/15 00:01	06/06/15 09:30

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TestAmerica Seattle

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11922 E. First Ave., Spokane WA 99206-5302
9405 SW Nimbus Ave., Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

509-924-9200
503-906-9200
907-563-9200

FAX 924-9290
FAX 906-9210
FAX 563-9210

8/10/2015

DATE: 6/15/15
TIME: 10:32

DATE: 6/14/15
TIME: 0930

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: GE
INVOICE TO:

REPORT TO: Matthew Behn

ADDRESS: 801 Corporate Center Drive STE 300

Raleigh, NC 27607

PHONE: 919-455-2203 FAX:

PROJECT NAME: GE-NFisk

PROJECT NUMBER: BA03255.1502.00001

TURNAROUND REQUEST
in Business Days *

Organic & Inorganic Analyses

10 7 5 4 3 2 1 <1

10 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses

5 4 3 2 1 <1

OTHER Specify:

CLIENT SAMPLE
IDENTIFICATION

	SAMPLING DATETIME	PRESERVATIVE
1 WC-1-S-0-2	6/4/15 14:30	X X X X
2 WC-1-S-4-6	6/4/15 15:00	X X X X
3 WC-1-S-13-15	6/4/15 15:20	X X X X
4 WC-2-S-0-2	6/4/15 13:15	X X X X
5 WC-2-S-4-6	6/4/15 13:40	X X X X
6 WC-2-S-13-15	6/4/15 14:00	X X X X
7 WC-3-S-0-2	6/3/15 8:30	X X X X
8 WC-3-S-9-11	6/3/15 9:25	X X X X
9 WC-3-S-13-15	6/3/15 9:45	X X X X
10 WC-4-S-0-2	6/3/15 10:15	X X X X

* Turnaround Requests less than standard may incur Rush Charges.
MATRIX (W,S,O)
OF CONT.
LOCATION/WO ID
COMMENTS

SAMPLED BY: Michael Ned Daniel
INVOICE TO:

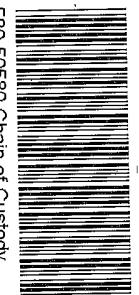
REPORT TO: Matthew Behn
ADDRESS: 801 Corporate Center Drive STE 300
Raleigh, NC 27607
PHONE: 919-455-2203 FAX:

PROJECT NAME: GE-NFisk

PROJECT NUMBER: BA03255.1502.00001

REQUESTED ANALYSES

580-50580 Chain of Custody



RELEASED BY: Michael Ned Daniel FIRM: ABCD DATE: 6/15/15 TIME: 10:30
PRINT NAME: Michael Ned Daniel FIRM: ABCD DATE: 6/15/15 TIME: 10:32
RELEASED BY: Andrew Pilk FIRM: TA AK DATE: 6/14/15 TIME: 0930
PRINT NAME: Andrew Pilk FIRM: TA AK DATE: 6/14/15 TIME: 0930
ADDITIONAL REMARKS:

RECEIVED BY: Jim Jones FIRM: TA AK DATE: 6/15/15 TIME: 10:32
PRINT NAME: Jim Jones FIRM: TA AK DATE: 6/15/15 TIME: 10:32
RECEIVED BY: Andreella FIRM: TA AK DATE: 6/14/15 TIME: 0930
PRINT NAME: Andreella FIRM: TA AK DATE: 6/14/15 TIME: 0930
ADDITIONAL REMARKS:

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11922 E. First Ave., Spokane WA 99206-5302
9405 SW Nimbus Ave., Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

509-924-9200
FAX 924-9290
503-906-9200
FAX 906-9210
907-563-9200
FAX 563-9210

8/10/2015

CHAIN OF CUSTODY REPORT

Work Order #: 2

CLIENT: GE
REPORT TO: Matthew Miller
ADDRESS: 801 Corporate Center One Site 300
Raleigh, NC 27607
PHONE: (919) 415-7308 FAX:

INVOICE TO:

PROJECT NAME: GE NKISKI
PROJECT NUMBER: 20031255.1502.00001
SAMPLED BY: Michael and Daniel

P.O. NUMBER:

REQUESTED ANALYSES

6 Organic & Inorganic Analyses
 7 Petroleum Hydrocarbon Analyses
 5 Petrochemical Analyses
 4 STD.
 3 2 1 <1

DATE: 6/15/15
TIME: 10:30
FIRM: TA+RN
RECEIVED BY: Jennifer
PRINT NAME: Jennifer Sabo
DATE: 6/15/15
TIME: 10:30
FIRM: TA+RN
RECEIVED BY: amarcella
PRINT NAME: amarcella
ADDITIONAL REMARKS:

PRESERVATIVE

*Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W,S,O)

OF CONT.

LOCATION/ COMMENTS

TA WO D

DATE: 6/15/15
TIME: 10:30
FIRM: TA+RN
RECEIVED BY: Jennifer
PRINT NAME: Jennifer Sabo
DATE: 6/15/15
TIME: 10:30
FIRM: TA+RN
RECEIVED BY: amarcella
PRINT NAME: amarcella
ADDITIONAL REMARKS:

OTHER

Specify:

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATETIME	TURNAROUND REQUEST in Business Days*												
		6	7	5	4	3	2	1	<1	5	4	3	2	1
1 WC-4-S-13-15 -13-2	6/13/15 10:45	X	X	X	X	X	X	X						
2 WC-4-S-9-11	6/13/15 10:45	X	X	X	X	X	X	X						
3 WC-5-S-13-15	6/13/15 12:05	X	X	X	X	X	X	X						
4 WC-5-S-6-2	6/13/15 11:20	X	X	X	X	X	X	X						
5 WC-5-S-9-11	6/13/15 11:50	X	X	X	X	X	X	X						
6 WC-6-S-0-2	6/13/15 15:05	X	X	X	X	X	X	X						
7 WC-6-S-9-11	6/13/15 15:30	X	X	X	X	X	X	X						
8 WC-6-S-13-15	6/13/15 16:00	X	X	X	X	X	X	X						
9 WC-7-S-0-2	6/14/15 11:00	X	X	X	X	X	X	X						
10 WC-7-S-11-13	6/14/15 11:10	X	X	X	X	X	X	X						

RELEASED BY: Michael and Daniel	DATE: 6/15/15	RECEIVED BY: Jennifer	DATE: 6/15/15
PRINT NAME: Michael and Daniel	TIME: 10:30	PRINT NAME: Jennifer Sabo	TIME: 10:30
RELEASED BY: Andrew	DATE: 6/15/15	RECEIVED BY: amarcella	DATE: 6/15/15
PRINT NAME: Andrew Pilch	TIME: 11:30	PRINT NAME: amarcella	TIME: 10:30
ADDITIONAL REMARKS:			

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3 of 4

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11922 E. First Ave., Spokane WA 99206-5302
9405 SW Nimbus Ave., Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

509-924-9200
503-906-9200
FAX 924-9290
FAX 906-9210
FAX 563-9210

8/10/2015

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: GE
REPORT TO: Matthew Heller
ADDRESS: 501 Corporate Center Drive STE 300
Raleigh, NC 27607
PHONE: (919) 455-2338

INVOICE TO:

TURNAROUND REQUEST
in Business Days*

10	7	5	4	3	2	1	<1
STZ.	Organic & Inorganic Analyses						

5	4	3	2	1	<1
STZ.	Petroleum Hydrocarbon Analyses				

PROJECT NAME: BE-M:KSKN
SAMPLED BY: Michael MacDaniel
P.O. NUMBER: 34431255.15qr. date: 1

REQUESTED ANALYSES

*Turnaround Requests less than standard may incur Rush Charges.

OTHER

Specify:

MATRIX (W,S,O)
OF CONT.

LOCATION/ COMMENTS

TA WOID

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATETIME	REQUESTED ANALYSES							
		GRO 10	APO 102	PCBs 8082A	FCE, PCE, benzene, xylenes, Toluene, ^{ethylbenzene} , ₈₂₆₀₀₃	PAHs	SVOCs	PCPs	PCPs
1. WC-7-S-13-15	6/4/15 11:35	X	X	X	-			S	2
2. WC-8-S-0-2	6/4/15 12:15	X	X	X	-			S	2
3. WC-8-S-9-11	6/4/15 12:35	X	X	X	-			S	2
4. WC-8-S-13-15	6/4/15 12:55	X	X	X	-			S	2
5. WC-9-S-0-2	6/4/15 9:40	X	X	X	-			S	2
6. WC-9-S-9-11	6/4/15 10:00	X	X	X	-			S	2
7. WC-9-S-13-15	6/4/15 10:10	X	X	X	-			S	2
8. WC-10-S-0-2	6/3/15 14:00	X	X	X	-			S	2
9. WC-10-S-9-11	6/3/15 14:25	X	X	X	-			S	2
10. WC-10-S-13-15	6/3/15 14:55	X	X	X	-			S	2

RELEASED BY: Mike Mckay DATE: 6/5/15 RECEIVED BY: Dawn John DATE: 6/5/15
PRINT NAME: Michael MacDaniel FIRM: TA-AN TIME: 10:30 PRINT NAME: Dawn John TIME: 10:30
RELEASED BY: Andrea Pich DATE: 6/5/15 RECEIVED BY: andrea DATE: 6/5/15
PRINT NAME: Andrea Pich FIRM: TA-AN TIME: 11:30 PRINT NAME: andrea FIRM: TA-AN TIME: 09:50
ADDITIONAL REMARKS:

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5502
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Site A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210
 8/10/2015

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: GE	REPORT TO: Matthew <i>Peltier</i> 301 Corporate Center Drive STE 300 Raleigh NC 27607
SAMPLED BY: Michael <i>MacDaniel</i>	INVOICE TO:

ADDRESS: PHONE (919) 415-3308 FAX:
 PROJECT NAME: GE - Niski
 PROJECT NUMBER: 80031255.1502 - 00000:

PO. NUMBER: 10

STD.

Petroleum Hydrocarbon Analytes

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Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 580-50580-1

Login Number: 50580

List Source: TestAmerica Seattle

List Number: 1

Creator: Vance, Diane R

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

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle

5755 8th Street East

Tacoma, WA 98424

Tel: (253)922-2310

TestAmerica Job ID: 580-52114-1

Client Project/Site: Former TBE Machine Shop Property

Revision: 1

For:

ARCADIS U.S. Inc

4915 Prospectus Drive

Suite F

Durham, North Carolina 27713

Attn: Mr. Matthew Pelton

Kristine D. Allen

Authorized for release by:

8/10/2015 12:33:56 PM

Kristine Allen, Manager of Project Management

(253)248-4970

kristine.allen@testamericainc.com

LINKS

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results through

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Ask
The
Expert

Visit us at:

www.testamericainc.com

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

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

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Sample Summary	22
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Case Narrative

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Job ID: 580-52114-1

Laboratory: TestAmerica Seattle

Narrative

Report revised 8-10-15 to report VOCs to the MDL.

Job Narrative 580-52114-1

Comments

No additional comments.

Receipt

The samples were received on 8/1/2015 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA

Method(s) AK101: Surrogate recovery for the method blank was outside the upper control limit: (MB 320-81808/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) AK101: The Gasoline Range Organics (GRO) concentration reported for the following samples is due to the presence of discrete peaks: WC-7-S-18-20 (580-52114-11), WC-7-S-23-25 (580-52114-12) and BD-1-S (580-52114-13).

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

GC Semi VOA

Method(s) AK102 & 103: In analytical batch 580-196880, the following samples from preparation batch 580-196870 contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: WC-6-S-18-20 (580-52114-9), WC-6-S-23-25 (580-52114-10), WC-7-S-18-20 (580-52114-11), WC-7-S-23-25 (580-52114-12) and BD-1-S (580-52114-13).

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

General Chemistry

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

Organic Prep

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

Definitions/Glossary

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

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

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Client Sample ID: WC-6-S-18-20

Date Collected: 07/30/15 14:40

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-9

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			08/04/15 16:12	1
Percent Moisture	5.0		0.10		%			08/04/15 16:12	1

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Client Sample ID: WC-6-S-18-20

Date Collected: 07/30/15 14:40

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-9

Matrix: Solid

Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene (TCE)	ND		32	3.5	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:11	1
Tetrachloroethene (PCE)	ND		32	2.7	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:11	1
Ethylbenzene	46		32	4.2	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:11	1
m-Xylene & p-Xylene	170		32	3.2	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:11	1
o-Xylene	59		32	3.3	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:11	1
Xylenes, Total	230		32	3.3	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:11	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		65 - 131	08/04/15 17:29	08/05/15 17:11	1
1,2-Dichloroethane-d4 (Surr)	107		52 - 126	08/04/15 17:29	08/05/15 17:11	1
4-Bromofluorobenzene (Surr)	114		67 - 135	08/04/15 17:29	08/05/15 17:11	1
Dibromofluoromethane (Surr)	102		61 - 123	08/04/15 17:29	08/05/15 17:11	1

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10 AK	25		3.2		mg/Kg	⊗	08/04/15 17:29	08/05/15 17:11	1
Surrogate									
4-Bromofluorobenzene (Surr)									
114									
Trifluorotoluene (Surr)									
65									

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	100	Y	20		mg/Kg	⊗	08/04/15 07:38	08/04/15 18:05	1
Surrogate									
o-Terphenyl									
94									
Prepared									
08/04/15 07:38									
Analyzed									
08/04/15 18:05									
Dil Fac									
1									

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Client Sample ID: WC-6-S-23-25

Date Collected: 07/30/15 15:00

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-10

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96		0.10		%			08/04/15 16:12	1
Percent Moisture	4.1		0.10		%			08/04/15 16:12	1

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Client Sample ID: WC-6-S-23-25

Date Collected: 07/30/15 15:00

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-10

Matrix: Solid

Percent Solids: 95.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene (TCE)	ND		29	3.2	ug/Kg	⊗	08/04/15 17:29	08/05/15 18:40	1
Tetrachloroethene (PCE)	5.8	J	29	2.4	ug/Kg	⊗	08/04/15 17:29	08/05/15 18:40	1
Ethylbenzene	280		29	3.8	ug/Kg	⊗	08/04/15 17:29	08/05/15 18:40	1
m-Xylene & p-Xylene	850		29	2.9	ug/Kg	⊗	08/04/15 17:29	08/05/15 18:40	1
o-Xylene	440		29	3.0	ug/Kg	⊗	08/04/15 17:29	08/05/15 18:40	1
Xylenes, Total	1300		29	3.0	ug/Kg	⊗	08/04/15 17:29	08/05/15 18:40	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)		102		65 - 131			08/04/15 17:29	08/05/15 18:40	1
1,2-Dichloroethane-d4 (Surr)		104		52 - 126			08/04/15 17:29	08/05/15 18:40	1
4-Bromofluorobenzene (Surr)		117		67 - 135			08/04/15 17:29	08/05/15 18:40	1
Dibromofluoromethane (Surr)		102		61 - 123			08/04/15 17:29	08/05/15 18:40	1

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10 AK	24		2.9		mg/Kg	⊗	08/04/15 17:29	08/05/15 18:40	1
Surrogate									
4-Bromofluorobenzene (Surr)		117		60 - 120			08/04/15 17:29	08/05/15 18:40	1
Trifluorotoluene (Surr)		65		60 - 120			08/04/15 17:29	08/05/15 18:40	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	54	Y	20		mg/Kg	⊗	08/04/15 07:38	08/04/15 18:23	1
Surrogate									
o-Terphenyl		88		50 - 150			08/04/15 07:38	08/04/15 18:23	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Client Sample ID: WC-7-S-18-20

Date Collected: 07/30/15 11:25

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-11

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			08/04/15 16:12	1
Percent Moisture	5.2		0.10		%			08/04/15 16:12	1

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Client Sample ID: WC-7-S-18-20

Date Collected: 07/30/15 11:25

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-11

Matrix: Solid

Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene (TCE)	ND		30	3.3	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:32	1
Tetrachloroethene (PCE)	ND		30	2.6	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:32	1
Ethylbenzene	5.8 J		30	4.0	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:32	1
m-Xylene & p-Xylene	24 J		30	3.0	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:32	1
o-Xylene	9.5 J		30	3.2	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:32	1
Xylenes, Total	34		30	3.2	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:32	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)		94		65 - 131			08/04/15 17:29	08/05/15 17:32	1
1,2-Dichloroethane-d4 (Surr)		104		52 - 126			08/04/15 17:29	08/05/15 17:32	1
4-Bromofluorobenzene (Surr)		91		67 - 135			08/04/15 17:29	08/05/15 17:32	1
Dibromofluoromethane (Surr)		100		61 - 123			08/04/15 17:29	08/05/15 17:32	1

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10 AK	5.4		3.0		mg/Kg	⊗	08/04/15 17:29	08/05/15 17:32	1
Surrogate									
4-Bromofluorobenzene (Surr)		91		60 - 120			08/04/15 17:29	08/05/15 17:32	1
Trifluorotoluene (Surr)		67		60 - 120			08/04/15 17:29	08/05/15 17:32	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	36	Y	20		mg/Kg	⊗	08/04/15 07:38	08/04/15 19:17	1
Surrogate									
o-Terphenyl		91		50 - 150			08/04/15 07:38	08/04/15 19:17	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Client Sample ID: WC-7-S-23-25

Date Collected: 07/30/15 11:45

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-12

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10		%			08/04/15 16:12	1
Percent Moisture	5.7		0.10		%			08/04/15 16:12	1

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Client Sample ID: WC-7-S-23-25

Date Collected: 07/30/15 11:45

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-12

Matrix: Solid

Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene (TCE)	ND		32	3.5	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:55	1
Tetrachloroethene (PCE)	4.3 J		32	2.6	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:55	1
Ethylbenzene	6.8 J		32	4.2	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:55	1
m-Xylene & p-Xylene	23 J		32	3.2	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:55	1
o-Xylene	9.1 J		32	3.3	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:55	1
Xylenes, Total	32		32	3.3	ug/Kg	⊗	08/04/15 17:29	08/05/15 17:55	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)		93		65 - 131			08/04/15 17:29	08/05/15 17:55	1
1,2-Dichloroethane-d4 (Surr)		102		52 - 126			08/04/15 17:29	08/05/15 17:55	1
4-Bromofluorobenzene (Surr)		88		67 - 135			08/04/15 17:29	08/05/15 17:55	1
Dibromofluoromethane (Surr)		98		61 - 123			08/04/15 17:29	08/05/15 17:55	1

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10 AK	4.9		3.2		mg/Kg	⊗	08/04/15 17:29	08/05/15 17:55	1
Surrogate									
4-Bromofluorobenzene (Surr)		88		60 - 120			08/04/15 17:29	08/05/15 17:55	1
Trifluorotoluene (Surr)		65		60 - 120			08/04/15 17:29	08/05/15 17:55	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	30	Y	21		mg/Kg	⊗	08/04/15 07:38	08/04/15 19:36	1
Surrogate									
o-Terphenyl		93		50 - 150			08/04/15 07:38	08/04/15 19:36	1

TestAmerica Seattle

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Client Sample ID: BD-1-S

Date Collected: 07/30/15 00:01

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-13

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			08/04/15 16:12	1
Percent Moisture	5.5		0.10		%			08/04/15 16:12	1

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Client Sample ID: BD-1-S

Date Collected: 07/30/15 00:01

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-13

Matrix: Solid

Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene (TCE)	ND		33	3.6	ug/Kg	⊗	08/04/15 17:29	08/05/15 18:18	1
Tetrachloroethene (PCE)	ND		33	2.8	ug/Kg	⊗	08/04/15 17:29	08/05/15 18:18	1
Ethylbenzene	6.5 J		33	4.3	ug/Kg	⊗	08/04/15 17:29	08/05/15 18:18	1
m-Xylene & p-Xylene	25 J		33	3.3	ug/Kg	⊗	08/04/15 17:29	08/05/15 18:18	1
o-Xylene	11 J		33	3.4	ug/Kg	⊗	08/04/15 17:29	08/05/15 18:18	1
Xylenes, Total	36		33	3.4	ug/Kg	⊗	08/04/15 17:29	08/05/15 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		65 - 131	08/04/15 17:29	08/05/15 18:18	1
1,2-Dichloroethane-d4 (Surr)	105		52 - 126	08/04/15 17:29	08/05/15 18:18	1
4-Bromofluorobenzene (Surr)	90		67 - 135	08/04/15 17:29	08/05/15 18:18	1
Dibromofluoromethane (Surr)	102		61 - 123	08/04/15 17:29	08/05/15 18:18	1

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10 AK	13		3.3		mg/Kg	⊗	08/04/15 17:29	08/05/15 18:18	1
Surrogate									
4-Bromofluorobenzene (Surr)									
90									
Trifluorotoluene (Surr)									
64									

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	38	Y	20		mg/Kg	⊗	08/04/15 07:38	08/04/15 19:53	1
Surrogate									
o-Terphenyl									
93									

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

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

Lab Sample ID: MB 320-81808/1-A

Matrix: Solid

Analysis Batch: 81864

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 81808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene (TCE)	ND		50		ug/Kg		08/04/15 17:29	08/05/15 15:09	1
Tetrachloroethene (PCE)	ND		50		ug/Kg		08/04/15 17:29	08/05/15 15:09	1
Ethylbenzene	ND		50		ug/Kg		08/04/15 17:29	08/05/15 15:09	1
m-Xylene & p-Xylene	ND		50		ug/Kg		08/04/15 17:29	08/05/15 15:09	1
o-Xylene	ND		50		ug/Kg		08/04/15 17:29	08/05/15 15:09	1
Xylenes, Total	ND		50		ug/Kg		08/04/15 17:29	08/05/15 15:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		65 - 131			
1,2-Dichloroethane-d4 (Surr)	106		52 - 126			
4-Bromofluorobenzene (Surr)	90		67 - 135			
Dibromofluoromethane (Surr)	104		61 - 123			

Lab Sample ID: LCS 320-81808/2-A

Matrix: Solid

Analysis Batch: 81864

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 81808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Trichloroethene (TCE)	1000	952		ug/Kg		95	68 - 120
Tetrachloroethene (PCE)	1000	1020		ug/Kg		102	78 - 121
Ethylbenzene	1000	1050		ug/Kg		105	80 - 122
m-Xylene & p-Xylene	1000	989		ug/Kg		99	80 - 123
o-Xylene	1000	974		ug/Kg		97	80 - 120
Xylenes, Total	2000	1960		ug/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	93		65 - 131
1,2-Dichloroethane-d4 (Surr)	94		52 - 126
4-Bromofluorobenzene (Surr)	100		67 - 135
Dibromofluoromethane (Surr)	92		61 - 123

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Lab Sample ID: MB 320-81808/1-A

Matrix: Solid

Analysis Batch: 81869

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 81808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10 AK	ND		5.0		mg/Kg		08/04/15 17:29	08/05/15 15:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		60 - 120			
Trifluorotoluene (Surr)	127	X	60 - 120			

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS) (Continued)

Lab Sample ID: LCS 320-81808/3-A

Matrix: Solid

Analysis Batch: 81869

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 81808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	RPD
C6-C10 AK	50.0	50.6		mg/Kg	101	60 - 120	
Surrogate	%Recovery	LCS Qualifier	Limits			Limits	
4-Bromofluorobenzene (Surr)	100		60 - 120				
Trifluorotoluene (Surr)	118		60 - 120				

Lab Sample ID: LCSD 320-81808/4-A

Matrix: Solid

Analysis Batch: 81869

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 81808

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD
C6-C10 AK	50.0	50.6		mg/Kg	101	60 - 120	
Surrogate	%Recovery	LCSD Qualifier	Limits			Limits	
4-Bromofluorobenzene (Surr)	98		60 - 120				
Trifluorotoluene (Surr)	116		60 - 120				

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Lab Sample ID: MB 580-196870/1-A

Matrix: Solid

Analysis Batch: 196880

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 196870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		20		mg/Kg	08/04/15 07:38	08/04/15 17:47		1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	97		50 - 150				08/04/15 07:38	08/04/15 17:47	1

Lab Sample ID: LCS 580-196870/2-A

Matrix: Solid

Analysis Batch: 196880

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 196870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	RPD
DRO (nC10-<nC25)	500	558		mg/Kg	112	75 - 125	
Surrogate	%Recovery	LCS Qualifier	Limits			Limits	
<i>o-Terphenyl</i>	100		50 - 150				

Lab Sample ID: LCSD 580-196870/3-A

Matrix: Solid

Analysis Batch: 196880

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 196870

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD
DRO (nC10-<nC25)	500	559		mg/Kg	112	75 - 125	

TestAmerica Seattle

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC) **(Continued)**

Lab Sample ID: LCSD 580-196870/3-A

Matrix: Solid

Analysis Batch: 196880

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 196870

<i>Surrogate</i>	<i>LCSD</i>	<i>LCSD</i>	
	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>o-Terphenyl</i>	100		50 - 150

Lab Sample ID: 580-52114-10 MS

Matrix: Solid

Analysis Batch: 196880

Client Sample ID: WC-6-S-23-25

Prep Type: Total/NA

Prep Batch: 196870

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>Spike</i>	<i>MS</i>	<i>MS</i>		<i>%Rec.</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>	<i>Unit</i>					
DRO (nC10-<nC25)	54	Y	497	603		mg/Kg	⊗	110	75 - 125		
<i>Surrogate</i>	<i>MS</i>	<i>MS</i>									
<i>o-Terphenyl</i>	<i>%Recovery</i>	<i>Qualifier</i>		<i>Limits</i>							
	98			50 - 150							

Lab Sample ID: 580-52114-10 MSD

Matrix: Solid

Analysis Batch: 196880

Client Sample ID: WC-6-S-23-25

Prep Type: Total/NA

Prep Batch: 196870

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>Spike</i>	<i>MSD</i>	<i>MSD</i>		<i>%Rec.</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>RPD</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>	<i>Unit</i>					
DRO (nC10-<nC25)	54	Y	515	559		mg/Kg	⊗	98	75 - 125	8	20
<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>		<i>Limits</i>							
<i>o-Terphenyl</i>	<i>%Recovery</i>	<i>Qualifier</i>		<i>Limits</i>							
	91			50 - 150							

Lab Chronicle

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Client Sample ID: WC-6-S-18-20

Date Collected: 07/30/15 14:40

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	196963	08/04/15 16:12	CTT	TAL SEA

Client Sample ID: WC-6-S-18-20

Date Collected: 07/30/15 14:40

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-9

Matrix: Solid

Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			81808	08/04/15 17:29	YML	TAL SAC
Total/NA	Analysis	8260B		1	81864	08/05/15 17:11	TC1	TAL SAC
Total/NA	Prep	5035			81808	08/04/15 17:29	YML	TAL SAC
Total/NA	Analysis	AK101		1	81869	08/05/15 17:11	EP1	TAL SAC
Total/NA	Prep	3546			196870	08/04/15 07:38	CTT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	196880	08/04/15 18:05	EKK	TAL SEA

Client Sample ID: WC-6-S-23-25

Date Collected: 07/30/15 15:00

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	196963	08/04/15 16:12	CTT	TAL SEA

Client Sample ID: WC-6-S-23-25

Date Collected: 07/30/15 15:00

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-10

Matrix: Solid

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			81808	08/04/15 17:29	YML	TAL SAC
Total/NA	Analysis	8260B		1	81864	08/05/15 18:40	TC1	TAL SAC
Total/NA	Prep	5035			81808	08/04/15 17:29	YML	TAL SAC
Total/NA	Analysis	AK101		1	81869	08/05/15 18:40	EP1	TAL SAC
Total/NA	Prep	3546			196870	08/04/15 07:38	CTT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	196880	08/04/15 18:23	EKK	TAL SEA

Client Sample ID: WC-7-S-18-20

Date Collected: 07/30/15 11:25

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	196963	08/04/15 16:12	CTT	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Client Sample ID: WC-7-S-18-20

Date Collected: 07/30/15 11:25

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-11

Matrix: Solid

Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			81808	08/04/15 17:29	YML	TAL SAC
Total/NA	Analysis	8260B		1	81864	08/05/15 17:32	TC1	TAL SAC
Total/NA	Prep	5035			81808	08/04/15 17:29	YML	TAL SAC
Total/NA	Analysis	AK101		1	81869	08/05/15 17:32	EP1	TAL SAC
Total/NA	Prep	3546			196870	08/04/15 07:38	CTT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	196880	08/04/15 19:17	EKK	TAL SEA

Client Sample ID: WC-7-S-23-25

Date Collected: 07/30/15 11:45

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	196963	08/04/15 16:12	CTT	TAL SEA

Client Sample ID: WC-7-S-23-25

Date Collected: 07/30/15 11:45

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-12

Matrix: Solid

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			81808	08/04/15 17:29	YML	TAL SAC
Total/NA	Analysis	8260B		1	81864	08/05/15 17:55	TC1	TAL SAC
Total/NA	Prep	5035			81808	08/04/15 17:29	YML	TAL SAC
Total/NA	Analysis	AK101		1	81869	08/05/15 17:55	EP1	TAL SAC
Total/NA	Prep	3546			196870	08/04/15 07:38	CTT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	196880	08/04/15 19:36	EKK	TAL SEA

Client Sample ID: BD-1-S

Date Collected: 07/30/15 00:01

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	196963	08/04/15 16:12	CTT	TAL SEA

Client Sample ID: BD-1-S

Date Collected: 07/30/15 00:01

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-13

Matrix: Solid

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			81808	08/04/15 17:29	YML	TAL SAC
Total/NA	Analysis	8260B		1	81864	08/05/15 18:18	TC1	TAL SAC
Total/NA	Prep	5035			81808	08/04/15 17:29	YML	TAL SAC
Total/NA	Analysis	AK101		1	81869	08/05/15 18:18	EP1	TAL SAC
Total/NA	Prep	3546			196870	08/04/15 07:38	CTT	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Client Sample ID: BD-1-S

Date Collected: 07/30/15 00:01

Date Received: 08/01/15 10:30

Lab Sample ID: 580-52114-13

Matrix: Solid

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK102 & 103		1	196880	08/04/15 19:53	EKK	TAL SEA

Laboratory References:

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

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16

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

Analysis Method	Prep Method	Matrix	Analyte
D 2216		Solid	Percent Moisture
D 2216		Solid	Percent Solids

Laboratory: TestAmerica Sacramento

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-055	12-18-15

Analysis Method Prep Method Matrix Analyte

Sample Summary

Client: ARCADIS U.S. Inc

Project/Site: Former TBE Machine Shop Property

TestAmerica Job ID: 580-52114-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-52114-9	WC-6-S-18-20	Solid	07/30/15 14:40	08/01/15 10:30
580-52114-10	WC-6-S-23-25	Solid	07/30/15 15:00	08/01/15 10:30
580-52114-11	WC-7-S-18-20	Solid	07/30/15 11:25	08/01/15 10:30
580-52114-12	WC-7-S-23-25	Solid	07/30/15 11:45	08/01/15 10:30
580-52114-13	BD-1-S	Solid	07/30/15 00:01	08/01/15 10:30

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TestAmerica Seattle

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

52114

11922 E. First Ave., Spokane WA 99206-5302
9405 SW Nimbus Ave., Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

509-924-9200 FAX 924-9290
503-906-9200 FAX 906-9210
907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: General Electric		INVOICE TO:		TURNAROUND REQUEST									
REPORT TO: Matthew Peltor				In Business Days *									
ADDRESS: 801 Corporate Center Dr. STE 300				Organic & Inorganic Analyses									
Paleo N.C. 27607				Petroleum Hydrocarbon Analyses									
PHONE: (919) 455-1308 FAX:				STD.									
PROJECT NAME: GE Niski				5									
PROJECT NUMBER: B0031255.1502.00001				STD.									
SAMPLED BY: Michael McDonald				OTHER Specify: HOLD All									
Paged				* Turnaround Requests less than standard may incur Rush Charges.									
CLIENT SAMPLE IDENTIFICATION				# OF MATRIX (W, S, O) CONT.									
Project				LOCATION/ COMMENTS									
WC-6-S-9-11		7/30/15		TA WO ID									
Sampling Date/Time		14:20											
1 23 WC-7-S-11-13		10:50											
2 26 WC-6-S-28-30		16:30											
3 4 WC-6-S-33-35		17:20											
5 5 WC-6-S-38-40		16:00											
6 6 WC-7-S-28-30		12:20											
7 7 WC-7-S-30-32		12:40											
8 8 WC-7-S-38-40		13:10											
9													
10													
RELEASED BY: Michael McDonald		DATE: 7/31/15		RECEIVED BY:									
PRINT NAME: Michael McDonald		TIME: 10:00		PRINT NAME: Director									
RELEASED BY: Andrew Pich		DATE: 7/31/15		RECEIVED BY:									
PRINT NAME: Andrew Pich		TIME: 11:05		PRINT NAME: TA See									
ADDITIONAL REMARKS:				FIRM: TA-AK									

RELEASED BY: Michael McDonald	DATE: 7/31/15	TIME: 10:00	PRINT NAME: Director	TIME: 10:00	DATE: 7/31/15	TIME: 10:00	PRINT NAME: Director	TIME: 10:00
PRINT NAME: Michael McDonald	DATE: 7/31/15	TIME: 11:05	PRINT NAME: TA See	TIME: 11:05	DATE: 7/31/15	TIME: 11:05	PRINT NAME: TA See	TIME: 11:05
ADDITIONAL REMARKS:	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

DATE: 7/31/15
TIME: 10:00 (0714)

Cooler TB-Dig/Door 4.1 unc 4.8
Cooler DSC/4 Bi-Lid/ft Lab
WetPacks Packing QuikPak

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11922 E. First Ave. Spokane WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

CLIENT: <u>GENERAL ELECTRIC</u>		INVOICE TO:		Work Order #:		TURNAROUND REQUEST	
				in Business Days *			
				<input checked="" type="checkbox"/> Organic & Inorganic Analyses <input checked="" type="checkbox"/> Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> STD. <input checked="" type="checkbox"/> 5 4		<small>* Turnaround Requests less than standard may incur Rush Charges.</small>	
REPORT TO: <u>Matthew Petka</u> ADDRESS: <u>801 Corporate Center Dr. STE 300</u> City: <u>Raleigh, NC 27607</u> PHONE: <u>(919) 465-2308 FAX:</u>		P.O. NUMBER:		OTHER		Specify:	
PROJECT NAME: <u>GE M&D</u>		PROJECT NUMBER: <u>80032155-1502-00001</u>					
SAMPLED BY: <u>Michael MacDaniel</u>		SAMPLING DATE/TIME		REQUESTED ANALYSES			
CLIENT SAMPLE IDENTIFICATION				Hold	Hold	Hold	
WC-6-S-18-20	7/30/15	14:40	X	X	X	X	
WC-6-S-23-25	7/30/15	15:00	X	X	X	X	
WC-7-S-18-20	7/30/15	11:25	X	X	X	X	
WC-7-S-23-25	7/30/15	11:45	X	X	X	X	
BD-1-S	7/30/15	-	X	X	X		
<u>6 Trip Blank</u>							
7							
8							
9							
10							
RELEASED BY: <u>Mitchell MacDaniel</u> FIRM: <u>MacDaniel</u>	DATE: <u>7/31/15</u>	TIME: <u>10:00</u>	RECEIVED BY: <u>Dawn Duncanson</u> FIRM: <u>T4 - AN</u>	DATE: <u>7/31/15</u>	TIME: <u>10:00</u>	PRINT NAME: <u>Dawn Duncanson</u>	PRINT NAME: <u>T4 - AN</u>
PRINT NAME: <u>Michael MacDaniel</u>			PRINT NAME: <u>John Vayne</u>			PRINT NAME: <u>John Vayne</u>	
RELEASED BY: <u>Andrew Pich</u> FIRM: <u>T A - AK</u>	DATE: <u>7/31/15</u>	TIME: <u>11:05</u>	RECEIVED BY: <u>Theresa Sheehan</u> FIRM: <u>T4 - AN</u>	DATE: <u>8/1/15</u>	TIME: <u>03:56</u>	PRINT NAME: <u>Theresa Sheehan</u>	PRINT NAME: <u>T4 - AN</u>
ADDITIONAL REMARKS: <i>Cold streak w/c.s.</i>							

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 580-52114-1

Login Number: 52114

List Source: TestAmerica Seattle

List Number: 1

Creator: Daugherty, Nicole M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	False	Ink smeared - enough informatin is legible to match the samples with the COC.
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	Split samples 11 and 13 due to subcontracting.
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 580-52114-1

Login Number: 52114

List Source: TestAmerica Sacramento

List Number: 2

List Creation: 08/04/15 12:57 PM

Creator: Paguyo, Joyce A

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

ARCADIS

Appendix D

ADEC Data Review Checklists

Laboratory Data Review Checklist

Completed by:	Kylie Kegerreis		
Title:	Environmental Engineering Specialist II	Date:	8/17/2015
CS Report Name:	GE- Nikiski	Report Date:	8/10/2015
Consultant Firm:	ARCADIS U.S., Inc.		
Laboratory Name:	TestAmerica (Tacoma, WA)	Laboratory Report Number:	580-50580-1
ADEC File Number:		ADEC RecKey Number:	

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No NA (Please explain.)

Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No NA (Please explain)

Comments:

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

Yes No NA (Please explain)

Comments:

b. Correct analyses requested?

Yes No NA (Please explain)

Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ($4^{\circ} \pm 2^{\circ}$ C)?

Yes No NA (Please explain)

Comments:

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No NA (Please explain)

Comments:

Methanol for GRO and 8260B

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No NA (Please explain)

Comments:

"Good condition"

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/preservation, sample temperature outside of acceptance range, insufficient or missing samples, etc.?

Yes No NA (Please explain)

Comments:

Samples without time written on labels (but time was written on COC): WC-1-S-4-6, WC-2-S-13-15

Time on COC does not match time on sample label for: WC-1-S-13-15 (lab used time on COC)

e. Data quality or usability affected? (Please explain)

Comments:

Data quality or usability not affected. Checked field notes against COC for time discrepancy. Times match.

4. Case Narrative

a. Present and understandable?

Yes No NA (Please explain)

Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes No NA (Please explain)

Comments:

Discussed in detail, below

c. Were all corrective actions documented?

Yes No NA (Please explain)

Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No NA (Please explain)

Comments:

b. All applicable holding times met?

Yes No NA (Please explain)

Comments:

8082B & 8260B: 14 days from collection to analysis; AK101 = 28 days; AK102 = 14 days collection to extraction, 40 days extraction to analysis
Collection Dates: 6/3 - 6/4/15
Prepped: (All) - 6/9/15; (8260B & AK101) - 6/10/15, 6/11/15
Analyzed: 6/9/15 - 6/16/15

c. All soils reported on a dry weight basis?

Yes No NA (Please explain)

Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No NA (Please explain)

Comments:

Some 8260B RLs exceed the Migration to Groundwater Cleanup Level. Lab re-distributed lab report with 8260B results reported to the MDL. All MDLs are below the Cleanup Level.

e. Data quality or usability affected? (Please explain)

Comments:

Data quality or usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No NA (Please explain)

Comments:

ii. All method blank results less than PQL?

Yes

No

NA (Please explain)

Comments:

Some detections above MDL but below RL

- (1) For MB related to prep/analysis batch: 191616/191458 - EB, m&p-xylene, PCE, and Total Xylenes
- (2) For MB related to prep/analysis batch: 191891/191902 - EB, m&p-xylene, o-xylene, and Total Xylenes

iii. If above PQL, what samples are affected?

Comments:

- (1) WC-1-S-0-2; WC-1-S-4-6; WC-1-S-13-15; WC-2-S-0-2; WC-2-S-4-6; WC-2-S-13-15; WC-3-S-0-2
- (2) WC-9-S-13-15; WC-10-S-0-2; WC-10-S-9-11; WC-10-S-13-15; BD-1-S; BD-2-S; BD-3-S; BD-4-S; Trip Blank

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes

No

NA (Please explain)

Comments:

Yes, data flags are clearly identified with a B

v. Data quality or usability affected? (Please explain)

Comments:

Of the samples listed in iii, only the following would require a change to non-detect w/ UB qualifier:

WC-1-S-0-2 (EB, m&p-xyl, PCE); WC-1-S-4-6 (EB, m&p-xyl, and PCE); WC-3-S-0-2 (EB, m&p-xyl, PCE, and total xyl); WC-9-S-13-15 (m&p-xyl and total xyl); WC-10-S-0-2 (EB, m&p-xyl, o-xyl, total xyl); WC-10-S-9-11 (EB, m&p-xyl, o-xyl, total xyl); BD-1-S (EB, m&p-xyl, o-xyl, total xyl); BD-2-S (o-xyl); BD-3-S (m&p-xyl, total xyl); BD-4-S (EB); trip blank (EB, m&p-xyl, o-xyl, total xyl)

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes

No

NA (Please explain)

Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes

No

NA (Please explain)

Comments:

No metals or inorganics analysis

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes

No

NA (Please explain)

Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/DMSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No

NA (Please explain)

Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

8260B: WC-1-S-0-2, WC-1-S-4-6, WC-1-S-13-15, WC-2-S-0-2, WC-2-S-4-6, WC-2-S-13-15, WC-3-S-0-2 (due to LCS %R); WC-9-S-13-15 (due to MS/MSD %R)

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

Yes No

NA (Please explain)

Comments:

F1 for MS/MSD, * for LCS/LCSD

vii. Data quality or usability affected? (Please explain)

Comments:

Data quality or usability not affected.

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

Yes No

NA (Please explain)

Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No

NA (Please explain)

Comments:

Surrogate 4-bromofluorobenzene (limits = 50 – 150%) (1) Sample WC-6-S-13-15 for GRO: %R = 674;

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes No

NA (Please explain)

Comments:

"X"

iv. Data quality or usability affected? (Use the comment box to explain.).

Comments:

Data quality or usability is not affected since other surrogates for each sample are within limits.

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No NA (Please explain.)

Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?
(If not, a comment explaining why must be entered below)

Yes No NA (Please explain.)

Comments:

iii. All results less than PQL?

Yes No NA (Please explain.)

Comments:

iv. If above PQL, what samples are affected?

Comments:

N/A

v. Data quality or usability affected? (Please explain.)

Comments:

Data quality or usability not affected.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No NA (Please explain.)

Comments:

ii. Submitted blind to lab?

Yes No NA (Please explain.)

Comments:

BD-1-S is duplicate of WC-3-S-13-15; BD-2-S is duplicate of WC-5-S-13-15; BD-3-S is duplicate of WC-9-S-0-2; BD-4-S is duplicate of WC-1-S-4-6

iii. Precision - All relative percent differences (RPD) less than specified DQOs?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \frac{\text{Absolute Value of: } (R_1 - R_2) \times 100}{((R_1 + R_2)/2)}$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No NA (Please explain)

Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Yes No NA (Please explain)

Comments:

Data quality or usability is not affected.

f. Decontamination or Equipment Blank (if applicable)

Yes No NA (Please explain)

Comments:

No decon or equipment blank collected

i. All results less than PQL?

Yes No NA (Please explain)

Comments:

ii. If above PQL, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected? (Please explain.)

Comments:

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No NA (Please explain)

Comments:

Results detected between MDL and RL for 8260B qualified as J by laboratory.

Reset Form