

SITE INVESTIGATION REPORT

Tenakee Springs Tank Farm

ADEC Site - 1527.38.010

Hazard ID - 4251

Tenakee Springs, Alaska

Prepared for:

City of Tenakee Springs

*P.O. Box 52
Tenakee Springs, Alaska 99841*

Submitted to:

Alaska Department of Environmental Conservation

Division of Spill Prevention and Response

Contaminated Sites Program

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October 2014

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1 Introduction

This Preliminary Site Investigation Report presents the results of site investigation activities for the Tenakee Springs Tank Farm in Tenakee Springs, Alaska. Carson Dorn, Inc. (CDI) has been contracted by the City of Tenakee Springs to provide environmental services in support of characterization of the site. The general purpose of the site investigation activities was to delineate the extent of potential contaminant impacts in onsite soils and groundwater.

2 Background

The Tenakee Springs tank farm has been in operation prior to 1951 when the facility was upgraded to three vertical diesel tanks of 20,000 gallon capacity and a single gasoline 12,000 gallon tank. These tanks were atop a foundation constructed from creosoted timbers in four layers, two above and two below ground inside an unlined earthen dike. The tanks were welded steel construction and pipes ran downhill without secondary containment to a marine header. The tank farm was unsecure with no fence or locks on the valves.

In 2003, the City of Tenakee Springs hired CDI to investigate the contamination at the tank farm which the City had purchased from Kadashan Bay Corporation, operated by the Snyder Mercantile Company. Sixteen test holes were dug throughout the tank farm and the perimeter to identify the presence and extent of any contamination. The following results were reported:

- Two test holes were dug across the road from the tank farm property in beach sediments. In one of the holes a sheen and an elevated photo-ionization detector (PID) reading were noted.
- Contamination was also detected in front of the old generator shed and the existing generator tank. In these areas, some of the test holes appeared black and oily and local residents said that the former generator tank had leaked chronically and may have caused the contamination found in the upper beach area. A fitting connecting the generator tank to a distribution line from the tank farm was noted by CDI to be leaking.
- Within the tank farm containment, four test holes were dug and PID readings indicated significant petroleum contamination.

- PID readings from test holes on the hillside below the tank farm had elevated PID readings.
- A test hole dug immediately behind a cabin owned by Snyder Mercantile had no indication of contamination.
- Of two test holes just downslope from the tank farm, one indicated significant contamination while the other did not.
- CDI recommended additional soil and water testing and the report was submitted to ADEC.

A new tank farm was designed and constructed by the Alaska Energy Authority (AEA) in 2006. Construction started in March 2006 and was completed late in the summer. The new tank farm is located uphill of the old tank farm. The new tanks are double wall and consist of two diesel tanks of 22,000 gallon capacity, one gasoline tank of 15,000 gallon capacity, and one gasoline dispensing tank of 8,000 thousand gallon capacity. The old tanks (which remain in place) were drained, cleaned, and all piping removed was by AEA.

In 2006, a Tenakee Springs citizen reported to the Alaska Department of Environmental Conservation (ADEC) that the AEA and the city were moving contaminated soil from the tank farm area and spreading it on the main road along the beach and side streets adjacent to gardens, drinking water wells, and the marine intertidal. Evidence from laborers indicated that they had seen and smelled oily material being spread. The citizen collected soil and water samples which indicated diesel range organics (DRO) was present in the soil at a concentration of 3,100 mg/kg and the tap water had a concentration of 0.54 mg/L DRO. ADEC Southeast Area Response Team staff visited the site on May 11, 2006 and collected soil samples from four locations where the soil was reportedly transported. The laboratory data indicated that the contaminated soil was transported from the tank farm site to the road right-of-way (as fill) adjacent to residential drinking water wells.

In February 2007, at the request of ADEC a Corrective Action Plan (CAP) was submitted by the city and approved by ADEC. Work began to transport the contaminated soil from the public right-of-way to an approved upland city property for treatment. In addition, ADEC requested that the drinking water well in the area be sampled.

3 Description of Current Sampling Activities

The soil and groundwater sampling activities were performed in general accordance with ADEC's *Draft Field Sampling Guidance*, May 2010. The planned scope of work conducted under the SAP (approved by ADEC on June 17, 2014) consisted of the collection and analysis of two soil samples (plus one field duplicate) from the biocell, thirteen soil samples from the tank farm, two groundwater samples from onsite monitoring wells, one groundwater sample from the newly installed Snyder Mercantile drinking water well (downstream of the tank farm), and one groundwater sample (plus one field duplicate) from Tuck Harry's drinking water well.

4 Constituents of Concern

The following are the soil and groundwater constituents of concern (COCs):

- Diesel Range Organics (DRO)
- Residual Range Organics (RRO)
- Gasoline Range Organics (GRO)
- Benzene, Toluene, Ethylbenzene, and Xylene (BTEX)
- Polyaromatic Hydrocarbons (PAHs)

5 ADEC Cleanup Levels

For the purposes of this investigation, analytical data will be compared to ADEC cleanup levels in 18 AAC 75.341 Tables B1, B2 and C. Table 1, Summary of Soil Analytical Results – August 2014 in Attachment A summarizes the soil sampling results relative to ADEC soil cleanup levels. Table 2, Summary of Groundwater Analytical Results – August 2014 in Attachment A summarizes the groundwater sampling results relative to ADEC soil cleanup levels.

6 Biocell Soil Investigation

The biocell soil investigation included the collection of two soil samples (plus one field duplicate). The biocell is approximately 10 feet by 6 feet by 30 inches deep and is located on the west side of the City Hall and Library Building. Soil at various depths from each location was field-screened using visual and olfactory indications and a photo-ionization detector. Samples submitted for analysis were determined based on these results. Soil samples were analyzed

by our contract laboratory, TestAmerica, Inc. for DRO using Alaska Method AK102, RRO using Alaska Method AK103, GRO using Alaska Method AK101, BTEX using USEPA Method 8260B, and PAHs using USEPA Method 8270C. The laboratory analytical reports are presented in Attachment B. Table 1, Summary of Soil Analytical Results – August 2014 in Attachment A summarizes the soil sampling results relative to ADEC soil cleanup levels. The locations of the samples are shown on the *Biocell Site Sketch* (Attachment A).

7 Biocell Soil Analytical Results

Test hole 1 and test hole 2 were excavated a depth of 30 inches below ground surface (bgs). DRO, RRO, GRO, and BTEX were not detected in S-1 (12 inches) or S-2 (26 inches). Low levels of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluoranthene, and pyrene were detected in S-1, all of the detected PAHs were well below ADEC soil cleanup levels. Low levels of anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, chrysene, fluoranthene, ideno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene were also detected in S-2, all of the detected PAHs were well below ADEC soil cleanup levels.

8 Tank Farm Soil Investigation

The tank farm soil investigation included the collection of thirteen oil samples. Soil at various depths from each location was field-screened using visual and olfactory indications and a photo-ionization detector. Samples submitted for analysis were determined based on these results. Soil samples were analyzed by our contract laboratory, TestAmerica, Inc. for DRO using Alaska Method AK102 and RRO using Alaska Method AK103. The laboratory analytical reports are presented in Attachment B. Table 1, Summary of Soil Analytical Results – August 2014 in Attachment A summarizes the soil sampling results relative to ADEC soil cleanup levels. The locations of the samples are shown on the *Tank Farm Site Sketch* (Attachment A).

9 Tank Farm Soil Analytical Results

Test holes 3, 4, 5, and 6 were excavated in front of the old tanks and valves inside the tank farm containment. Test hole 3 was excavated to a depth of 20 inches bgs, test hole 4 was excavated to a depth of 8 inches bgs, test hole 5 was excavated to a depth of 18 inches bgs, and test hole 6 was excavated to a depth of 14 inches bgs. The soils were wet organic with blue clay at the bottom of test hole 3. The test holes had strong odor and filled rapidly with water with a heavy sheen. DRO was detected at a concentration of 30 mg/kg in S-3 (8 inches). RRO was not detected in S-3. DRO

was detected at a concentration of 1,000 mg/kg and RRO was detected at a concentration of 110 mg/kg in S-4 (8 inches). DRO was detected at a concentration of 120 mg/kg in S-5 (12 inches). RRO was not detected in S-5. DRO was detected at a concentration of 450 mg/kg in S-6 (10 inches). RRO was not detected in S-10.

Test hole 7 (below the old containment drain) was excavated to a depth of 24 inches bgs. The soils were organic with blue clay at 24 inches bgs. The test hole had odor and water with sheen was encountered at 20 inches. DRO was detected at a concentration of 2,900 mg/kg and RRO was detected at a concentration of 110 mg/kg in S-7 (20 inches).

Test hole 8 (downgradient of the tank farm below the discarded tanks) was excavated to a depth of 28 inches bgs. No odor was noted in the test hole. The soils were very dry organic and no groundwater was encountered. DRO was detected at a concentration of 180 mg/kg and RRO was detected at a concentration of 200 mg/kg in S-8 (24 inches).

Test hole 9 (4 feet behind tank #4 inside containment) was excavated to a depth of 18 inches bgs. No odor was noted in the test hole. The soils were organic then blue clay from 4 inches to the bottom. Groundwater with no sheen was encountered at 8 inches. DRO and RRO were not detected in S-9 (8 inches).

Test hole 10 (west of the tank farm containment near the steps) was excavated to a depth of 32 inches bgs. No odor was noted in the test hole. The soils were organic and groundwater with no sheen was encountered at 24 inches. DRO and RRO were not detected in S-10 (24 inches).

Test hole 11 (drainage below east side containment) was excavated to a depth of 40 inches bgs. The soils were organic then blue clay and rock at 40 inches. Low odor was noted in the test hole. Groundwater with no sheen was encountered at the bottom. DRO was detected at a concentration of 450 mg/kg in S-11 (38 inches). RRO was not detected in S-11.

Test hole 12 (west of the Snyder Cabin) was excavated to a depth of 38 inches bgs. Strong odor was noted in the hole and groundwater was encountered at 36 inches. The blue clay layer was at 38 inches. DRO was detected at a concentration of 1,300 mg/kg in S-12 (34 inches). RRO was not detected in S-12.

Test hole 13 (west side of drainage near old distribution lines) was excavated to a depth of 24 inches bgs. Heavy odor was noted in the test hole. Groundwater with slight sheen was encountered at 22 inches. DRO was detected at a concentration of 5,300 mg/kg and RRO was detected at a concentration of 1,200 mg/kg in S-13 (22 inches).

Test hole 14 (across the road from tank farm) was excavated to a depth of 18 inches bgs. The gravel beach sediment has a strong odor and was coated with black oily residue. The hole filled rapidly with water with a heavy sheen. DRO was detected at a concentration of 4,000 mg/kg and RRO was detected at a concentration of 2,600 mg/kg in S-14 (18 inches).

Test hole 15 (area of the former generator tank) was excavated to a depth of 18 inches bgs. Heavy odor was noted in the test hole and groundwater with slight sheen was encountered at the bottom. DRO was detected at a concentration of 2,000 mg/kg and RRO was detected at a concentration of 4,000 mg/kg in S-15 (18 inches).

10 Groundwater Investigation

The groundwater investigation included the collection of two groundwater samples from onsite monitoring wells (MW-1 and MW-2), one groundwater sample from the newly installed Snyder Mercantile drinking water well (downstream of the tank farm), and one groundwater sample (plus one field duplicate) from Tuck Harry's drinking water well. Groundwater samples were analyzed by our contract laboratory, TestAmerica, Inc. for DRO using Alaska Method AK102, RRO using Alaska Method AK103, GRO using Alaska Method AK101, BTEX using USEPA Method 8260B, and PAHs using USEPA Method 8270C. The laboratory analytical reports are presented in Attachment B. Table 2, Summary of Groundwater Analytical Results – August 2014 in Attachment A summarizes the groundwater sampling results relative to ADEC groundwater cleanup levels. The locations of the wells are shown on the *Groundwater Wells Locations Sketch* (Attachment A).

11 Groundwater Analytical Results

DRO, RRO, and GRO were not detected in MW-1. DRO was detected at a concentration of 0.57 mg/L in MW-2. RRO was detected at a concentration of 2.7 mg/L in MW-2 which exceeds the ADEC method 2 groundwater cleanup level of 1.1 mg/L . GRO was not detected in MW-2. DRO,

RRO, and GRO were not detected in the Snyder Mercantile drinking water well. DRO, RRO, GRO, BTEX, and PAHs were not detected in Tuck Harry's drinking water well.

12 Summary

This Site Investigation Report presents the results of site investigation activities at the Tenakee Springs Tank Farm site in Tenakee Springs, Alaska. The general purpose of the site investigation activities was to delineate the extent of contaminant impacts in soils and groundwater.

The biocell soil investigation confirmed that the soil is remediated. DRO, RRO, GRO, and BTEX were not detected in S-1 or S-2. Low levels of PAHs were detected in S-2, all of which were well below ADEC soil cleanup levels.

The tank farm soil investigation confirmed that soils at the tank farm site and offsite in the upper beach area downslope of the tank farm are impacted by DRO. DRO was detected in 11 out of 13 samples at concentrations ranging from 30 mg/kg in S-3 to 5,300 mg/kg in S-13. The detected concentrations of DRO exceeded the ADEC Method Two Soil Cleanup Level for migration to groundwater in S-4, S-6, S-7, S-11, S-12, S-13, S-14, and S-15. The detected concentrations of DRO are below the ADEC Method Two Soil Cleanup Level for ingestion and inhalation.

All detected concentrations of RRO (detected in 6 out of 13 samples at concentrations ranging from 110 mg/kg in S-4 to 4,000 mg/kg in S-15) were below the ADEC Method Two Soil Cleanup Level for ingestion, inhalation, and migration to groundwater.

The groundwater investigation indicates that onsite groundwater is impacted by RRO (2.7 mg/L) in exceedance of the ADEC method 2 groundwater cleanup level of 1.1 mg/L. The maximum detection for RRO in soil in test hole 15 (S-15) is near the location of MW-2. DRO was also detected in MW-2 at a concentration of 0.57 mg/L which is below the ADEC method 2 groundwater cleanup level of 1.5 mg/L. The offsite groundwater investigation indicates drinking water wells are not impacted by offsite migration.

Attachment A

Table 1. Summary of Soil Analytical Results -August 2014

Tenakee Springs Tank Farm - Tenakee Springs, Alaska

Analyte	Units	Over 40-inch Zone		Migration to Groundwater (mg/kg)	Sample & Depth									
		Biocell Investigation				Tank Farm Investigation								
		S-1 (12 in) 8/18/2014	S-2 (26 in) 8/18/2014	S-D (dup S-2) (26 in) 8/18/2014	S-3 (6 in) 8/18/2014	S-4 (8 in) 8/18/2014	S-5 (12 in) 8/18/2014	S-6 (10 in) 8/18/2014	S-7 (20 in) 8/18/2014	S-8 (24 in) 8/18/2014	S-9 (8 in) 8/18/2014			
AK Method 102- Diesel Range Organics														
DRO (nC10-<nC25)	mg/Kg	8250	12500	230	<24	<23	<24	30	1000	120	450	2900	180	<23
AK Method 103- Residual Range Organics														
RRO (nC25-<nC36)	mg/Kg	8300	22000	9700	<60	<59	<60	<63	110	<63	<65	110	200	<57
AK Method 101- Gasoline Range Organics														
GRO (nC6-< nC10)	mg/Kg	1400	1400	260	<2.4*	<2.5*	<2.3*	NA	NA	NA	NA	NA	NA	NA
USEPA Method 8260B- BTEX														
Benzene	mg/Kg	120	8.5	0.025	<0.010	<0.010	<0.0093	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/Kg	6600	220	6.5	<0.025	<0.025	<0.023	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/Kg	8300	81	6.9	<0.025	<0.025	<0.023	NA	NA	NA	NA	NA	NA	NA
Xylenes	mg/Kg	16600	63	63	<0.075	<0.075	<0.070	NA	NA	NA	NA	NA	NA	NA
USEPA Method 8270C - PAHs														
Acenaphthene	mg/Kg	2300		180	<0.024	<0.024	<0.024	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/Kg	2300		180	<0.024	<0.024	<0.024	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/Kg	16800		3000	<0.024	0.054	0.034	NA	NA	NA	NA	NA	NA	NA
Benz(a)anthracene	mg/Kg	4		3.6	0.039	0.12	0.13	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/Kg	0.4		2.1	0.048	0.097	0.093	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/Kg	4		12	0.069	0.16	0.15	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/Kg	40		120	<0.030	0.079	0.06	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/Kg	1100		38700	<0.030	0.047	0.041	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/Kg	400		360	0.047	0.22	0.16	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	mg/Kg	0.4		4	<0.048	<0.048	<0.048	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/Kg	1500		1400	0.063	0.17	0.27	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/Kg	1900		220	<0.024	<0.024	<0.024	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/Kg	4		41	<0.048	0.067	0.063	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/Kg	1100	21	20	<0.024	0.031	<0.024	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/Kg	16800		3000	<0.024	0.098	0.098	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/Kg	1100		1000	0.076	0.18	0.25	NA	NA	NA	NA	NA	NA	NA

Notes:Results in **bold** above ADEC Method 2 Soil Cleanup Level.

< - non detect at reporting limit.

NA Not analyzed.

* Laboratory Control Sample and/or Laboratory Control Sample Duplicate exceeds the control limits.

Table 1. Summary of Soil Analytical Results -August 2014

Tenakee Springs Tank Farm - Tenakee Springs, Alaska

Analyte	Units	Over 40-inch Zone		Migration to Groundwater (mg/kg)	Sample & Depth						
		Tank Farm Investigation									
		Ingestion (mg/kg)	Inhalation (mg/kg)		S-10 (24 in) 8/18/2014	S-11 (38 in) 8/18/2014	S-12 (34 in) 8/18/2014	S-13 (22 in) 8/18/2014	S-14 (18 in) 8/18/2014	S-15 (18 in) 8/18/2014	
AK Method 102- Diesel Range Organics											
DRO (nC10-<nC25)	mg/Kg	8250	12500	230	<26	450	1300	5300	4000	2000	
AK Method 103- Residual Range Organics											
RRO (nC25-<nC36)	mg/Kg	8300	22000	9700	<66	<140	<150	1200	2600	4000	
AK Method 101- Gasoline Range Organics											
GRO (nC6-<nC10)	mg/Kg	1400	1400	260	NA	NA	NA	NA	NA	NA	
USEPA Method 8260B- BTEX											
Benzene	mg/Kg	120	8.5	0.025	NA	NA	NA	NA	NA	NA	
Toluene	mg/Kg	6600	220	6.5	NA	NA	NA	NA	NA	NA	
Ethylbenzene	mg/Kg	8300	81	6.9	NA	NA	NA	NA	NA	NA	
Xylenes	mg/Kg	16600	63	63	NA	NA	NA	NA	NA	NA	
USEPA Method 8270C - PAHs											
Acenaphthene	mg/Kg	2300		180	NA	NA	NA	NA	NA	NA	
Acenaphthylene	mg/Kg	2300		180	NA	NA	NA	NA	NA	NA	
Anthracene	mg/Kg	16800		3000	NA	NA	NA	NA	NA	NA	
Benz(a)anthracene	mg/Kg	4		3.6	NA	NA	NA	NA	NA	NA	
Benzo(a)pyrene	mg/Kg	0.4		2.1	NA	NA	NA	NA	NA	NA	
Benzo(b)fluoranthene	mg/Kg	4		12	NA	NA	NA	NA	NA	NA	
Benzo(k)fluoranthene	mg/Kg	40		120	NA	NA	NA	NA	NA	NA	
Benzo(g,h,i)perylene	mg/Kg	1100		38700	NA	NA	NA	NA	NA	NA	
Chrysene	mg/Kg	400		360	NA	NA	NA	NA	NA	NA	
Dibenz(a,h)anthracene	mg/Kg	0.4		4	NA	NA	NA	NA	NA	NA	
Fluoranthene	mg/Kg	1500		1400	NA	NA	NA	NA	NA	NA	
Fluorene	mg/Kg	1900		220	NA	NA	NA	NA	NA	NA	
Indeno(1,2,3-cd)pyrene	mg/Kg	4		41	NA	NA	NA	NA	NA	NA	
Naphthalene	mg/Kg	1100	21	20	NA	NA	NA	NA	NA	NA	
Phenanthrene	mg/Kg	16800		3000	NA	NA	NA	NA	NA	NA	
Pyrene	mg/Kg	1100		1000	NA	NA	NA	NA	NA	NA	

Notes:Results in **bold** above ADEC Method 2 Soil Cleanup Level.

< - non detect at reporting limit.

NA Not analyzed.

* Laboratory Control Sample and/or Laboratory Control Sample Duplicate exceeds the control limits.

Table 2. Summary of Groundwater Analytical Results -August 2014
Tenakee Springs Tank Farm - Tenakee Springs, Alaska

Analyte	Units	ADEC Method 2 Groundwater Cleanup Level	MW1 8/18/2014	MW2 8/18/2014	Snyder Well 8/18/2014	Tuck Harry Well 8/18/2014
AK Method 102- Diesel Range Organics						
DRO (nC10-<nC25)	mg/L	1.5	<0.40	0.57	<0.38	<0.38
AK Method 103- Residual Range Organics						
RRO (nC25-<nC36)	mg/L	1.1	<0.40	2.7	<0.38	<0.38
AK Method 101- Gasoline Range Organics						
GRO (nC6-<nC10)	mg/L	2.2	<0.05	<0.05	<0.05	<0.05
USEPA Method 8260B- BTEX						
Benzene	mg/L	0.005	NA	NA	NA	<0.0005
Toluene	mg/L	1	NA	NA	NA	<0.001
Ethylbenzene	mg/L	0.7	NA	NA	NA	<0.001
Xylenes	mg/L	10	NA	NA	NA	<0.001
USEPA Method 8270C - PAHs						
Acenaphthene	mg/L	2.2	NA	NA	NA	<0.000109
Acenaphthylene	mg/L	2.2	NA	NA	NA	<0.000109
Anthracene	mg/L	11	NA	NA	NA	<0.000109
Benz(a)anthracene	mg/L	0.0012	NA	NA	NA	<0.000109
Benzo(a)pyrene	mg/L	0.0002	NA	NA	NA	<0.000109
Benzo(b)fluoranthene	mg/L	0.0012	NA	NA	NA	<0.000109
Benzo(k)fluoranthene	mg/L	0.012	NA	NA	NA	<0.000109
Benzo(g,h,i)perylene	mg/L	1.1	NA	NA	NA	<0.000109
Chrysene	mg/L	0.12	NA	NA	NA	<0.000109
Dibenz(a,h)anthracene	mg/L	0.00012	NA	NA	NA	<0.000109
Fluoranthene	mg/L	1.5	NA	NA	NA	<0.000109
Fluorene	mg/L	1.5	NA	NA	NA	<0.000109
Indeno(1,2,3-cd)pyrene	mg/L	0.0012	NA	NA	NA	<0.000109
Naphthalene	mg/L	0.73	NA	NA	NA	<0.000109
Phenanthrene	mg/L	11	NA	NA	NA	<0.000109
Pyrene	mg/L	1.1	NA	NA	NA	<0.000109

Notes:

Results in **bold** above ADEC Groundwater Cleanup Level.

< - non detect at reporting limit.

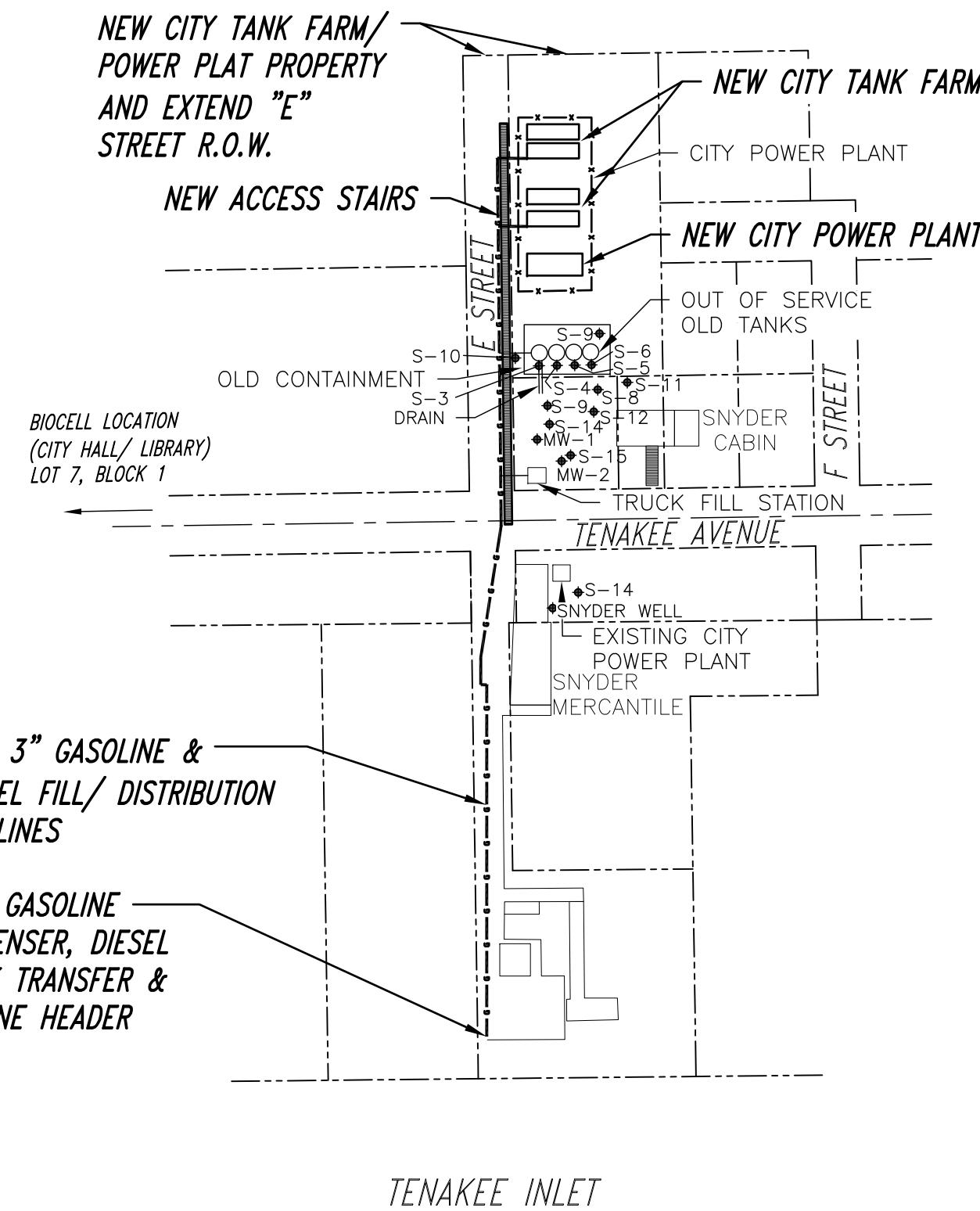
NA Not analyzed.

LEGEND

- PROPERTY LINE
- UNSURVEYED
- CENTERLINE
- 3" GASOLINE & DIESEL
FILL/ DISTRIBUTION
PIPELINES



NORTH



Scale 1"=100'

10/29/2014 14:40:08 PM AST

ENGDM2.CAD\SE_AK\TENAKEE\TANK FARM\Tnk-Tank Farm.Dwg

SCALE	GRAPHIC
DESIGNED	JMC
DRAWN	GDM
CHECKED	JMC
DATE	OCT 2014
REV	
DATE	
BY	
DESCRIPTION	

CITY OF TENAKEE
TENAKEE SPRINGS, ALASKA

Carson Dorn Inc.

712 WEST 12TH STREET
JUNEAU, ALASKA 99801
(907) 586-4447SITE PLAN
TENAKKE SPRINGS
TANK FARM SITE

DRAWING FIG.
1
SHEET
No.
1 of 1

Attachment B

Laboratory Data Review Checklist

Completed by: Jolene Cox

Title: Environmental Professional Date: October 20, 2014

CS Report Name: Tenakee Springs Tank Farm Report Date: September 4, 2014

Consultant Firm: Carson Dorn, Inc.

Laboratory Name: Test America, Inc. Laboratory Report Number: 230-265-1

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:

YES

- 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:

YES

- b. Correct analyses requested?

Yes No NA (Please explain.) Comments:

YES

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:

YES

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No NA (Please explain.) Comments:

YES

- c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
Yes No NA (Please explain.) Comments:

YES

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
Yes No NA (Please explain.) Comments:

NO

- e. Data quality or usability affected? (Please explain.)
Comments:

[Redacted]

4. Case Narrative

- a. Present and understandable?

Yes No NA (Please explain.) Comments:

YES

- b. Discrepancies, errors or QC failures identified by the lab?

Yes No NA (Please explain.) Comments:

The continuing calibration verification (CCV) associated with batch 1036 recovered outside acceptance criteria, low biased, for Acetone. The % drift was calculated at -33.0%, whereas the limit is -25.0%.

The continuing calibration verification (CCV) associated with batch 1017 recovered above the upper control limit for Gasoline Range Organics (GRO). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (LCS 230-1017/1031), (LCSD 230-1017/32), (MB 230-1017/24), T.H.WELL(230-265-16).

Method(s) AK102 & 103: The following sample(s) required a dilution due to the nature of the sample matrix: S-13 (230-265-13). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

- c. Were all corrective actions documented?

Yes No NA (Please explain.) Comments:

YES

- d. What is the effect on data quality/usability according to the case narrative?
Comments:

NONE

5. Samples Results

- a. Correct analyses performed/reported as requested on COC?

Yes No NA (Please explain.) Comments:

YES

- b. All applicable holding times met?
Yes No NA (Please explain.)

Comments:

YES

- c. All soils reported on a dry weight basis?
Yes No NA (Please explain.)

Comments:

YES

- 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:

YES

- e. Data quality or usability affected?

Comments:

6. QC Samples

- a. Method Blank

- i. One method blank reported per matrix, analysis and 20 samples?
Yes No NA (Please explain.)

Comments:

YES

- ii. All method blank results less than PQL?

Yes No NA (Please explain.)

Comments:

YES

- iii. If above PQL, what samples are affected?

Comments:

- iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
Yes No NA (Please explain.)

Comments:

- v. Data quality or usability affected? (Please explain.)

Comments:

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:

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 1017 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) AK101: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 1032 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

- ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No NA (Please explain.)

Comments:

- 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:

YES

- 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/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain.)

Comments:

Method(s) AK102 & 103: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 1034 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain.)

Comments:

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

c. Surrogates – Organics Only

- i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
Yes No NA (Please explain.) Comments:

YES

- 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:

YES

- 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:

- iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

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:

YES

- 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:

YES

- iii. All results less than PQL?

Yes No NA (Please explain.) Comments:

Method(s) AK101: The Gasoline Range Organics (GRO) concentration reported for the following sample(s) is due to the presence of discrete peaks: TRIP BLANK (230-265-23). This is caused by the Methanol of the trip blank extracting a compound from the teflon lid of the container jar.

- iv. If above PQL, what samples are affected?

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

NO

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No NA (Please explain.)

Comments:

YES

ii. Submitted blind to lab?

Yes No NA (Please explain.)

Comments:

YES

iii. Precision – All relative percent differences (RPD) less than specified DQOs?

(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \frac{\text{Absolute value of: } (R_1 - R_2)}{(R_1 + R_2)/2} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No NA (Please explain.)

Comments:

YES

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

f. Decontamination or Equipment Blank (If not used explain why).

Yes No NA (Please explain.)

Comments:

i. All results less than PQL?

Yes No NA (Please explain.)

Comments:

ii. If above PQL, what samples are affected?

Comments:

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:

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Anchorage

2000 West International Airport Road

Suite A10

Anchorage, AK 99502-1119

Tel: (907)563-9200

TestAmerica Job ID: 230-265-1

Client Project/Site: TKE T.F.

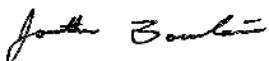
For:

Carson Dorn, Inc

712 West 12th Street

Juneau, Alaska 99801

Attn: Tom Carson



Authorized for release by:

9/4/2014 2:54:53 PM

Jonathan Bousselaire, Project Management Assistant II

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

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

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Definitions/Glossary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits
X	Surrogate is outside control limits

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)

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Case Narrative

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Job ID: 230-265-1

Laboratory: TestAmerica Anchorage

Narrative

Job Narrative 230-265-1

Comments

No additional comments.

Receipt

The samples were received on 8/25/2014 8:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 1036 recovered outside acceptance criteria, low biased, for Acetone. The % drift was calculated at -33.0%, whereas the limit is -25.0%.

Method(s) AK101: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 1017 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) AK101: The continuing calibration verification (CCV) associated with batch 1017 recovered above the upper control limit for Gasoline Range Organics (GRO). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (LCS 230-1017/1031), (LCSD 230-1017/32), (MB 230-1017/24), T.H.WELL (230-265-16).

Method(s) AK101: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 1032 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) AK101: The Gasoline Range Organics (GRO) concentration reported for the following sample(s) is due to the presence of discrete peaks: TRIP BLANK (230-265-23). This is caused by the Methanol of the trip blank extracting a compound from the teflon lid of the container jar.

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 1034 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) AK102 & 103: The following sample(s) required a dilution due to the nature of the sample matrix: S-13 (230-265-13). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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.

Detection Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: S-1

Lab Sample ID: 230-265-1

No Detections.

Client Sample ID: S-2

Lab Sample ID: 230-265-2

No Detections.

Client Sample ID: S-3

Lab Sample ID: 230-265-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C25	30		25		mg/Kg	1	⊗	AK102 & 103	Total/NA

Client Sample ID: S-4

Lab Sample ID: 230-265-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C25	1000		43		mg/Kg	1	⊗	AK102 & 103	Total/NA
C25-C36	110		110		mg/Kg	1	⊗	AK102 & 103	Total/NA

Client Sample ID: S-5

Lab Sample ID: 230-265-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C25	120		25		mg/Kg	1	⊗	AK102 & 103	Total/NA

Client Sample ID: S-6

Lab Sample ID: 230-265-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C25	450		26		mg/Kg	1	⊗	AK102 & 103	Total/NA

Client Sample ID: S-7

Lab Sample ID: 230-265-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C25	2900		30		mg/Kg	1	⊗	AK102 & 103	Total/NA
C25-C36	110		75		mg/Kg	1	⊗	AK102 & 103	Total/NA

Client Sample ID: S-8

Lab Sample ID: 230-265-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C25	180		27		mg/Kg	1	⊗	AK102 & 103	Total/NA
C25-C36	200		68		mg/Kg	1	⊗	AK102 & 103	Total/NA

Client Sample ID: S-9

Lab Sample ID: 230-265-9

No Detections.

Client Sample ID: S-10

Lab Sample ID: 230-265-10

No Detections.

Client Sample ID: S-11

Lab Sample ID: 230-265-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C25	450		56		mg/Kg	1	⊗	AK102 & 103	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Anchorage

Detection Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: S-12

Lab Sample ID: 230-265-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C25	1300		59		mg/Kg	1	⊗	AK102 & 103	Total/NA

Client Sample ID: S-13

Lab Sample ID: 230-265-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C25-C36	1200		65		mg/Kg	1	⊗	AK102 & 103	Total/NA
C10-C25 - DL	5300		260		mg/Kg	10	⊗	AK102 & 103	Total/NA

Client Sample ID: S-14

Lab Sample ID: 230-265-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C25	4000		220		mg/Kg	10	⊗	AK102 & 103	Total/NA
C25-C36	2600		560		mg/Kg	10	⊗	AK102 & 103	Total/NA

Client Sample ID: S-15

Lab Sample ID: 230-265-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C25	2000		28		mg/Kg	1	⊗	AK102 & 103	Total/NA
C25-C36 - DL	4000		690		mg/Kg	10	⊗	AK102 & 103	Total/NA

Client Sample ID: T.H.WELL

Lab Sample ID: 230-265-16

No Detections.

Client Sample ID: SNYDER WELL

Lab Sample ID: 230-265-17

No Detections.

Client Sample ID: D.WELL

Lab Sample ID: 230-265-18

No Detections.

Client Sample ID: MW-1

Lab Sample ID: 230-265-19

No Detections.

Client Sample ID: MW-2

Lab Sample ID: 230-265-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.57		0.39		mg/L	1		AK102 & 103	Total/NA
Residual Range Organics (RRO) (C25-C36)	2.7		0.39		mg/L	1		AK102 & 103	Total/NA

Client Sample ID: S-D

Lab Sample ID: 230-265-21

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 230-265-22

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Anchorage

Detection Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 230-265-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C6-C10	37	*	3.3		mg/Kg	1	⊗	AK101	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: S-1

Date Collected: 08/18/14 09:00
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-1

Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND	*	2.4		mg/Kg	⊗	08/27/14 10:16	08/27/14 23:14	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120				08/27/14 10:16	08/27/14 23:14	1
Dibromofluoromethane (Surr)	99		71.5 - 139				08/27/14 10:16	08/27/14 23:14	1
Toluene-d8 (Surr)	96		77.2 - 120				08/27/14 10:16	08/27/14 23:14	1
Trifluorotoluene (Surr)	74		50 - 150				08/27/14 10:16	08/27/14 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	ND		24		mg/Kg	⊗	08/27/14 10:17	08/28/14 20:19	1
C25-C36	ND		60		mg/Kg	⊗	08/27/14 10:17	08/28/14 20:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	107		50 - 150				08/27/14 10:17	08/28/14 20:19	1
n-Triacontane (Surr)	109		50 - 150				08/27/14 10:17	08/28/14 20:19	1

Client Sample ID: S-2

Date Collected: 08/18/14 09:11
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-2

Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010		mg/Kg	⊗	08/27/14 10:16	08/28/14 01:22	1
Ethylbenzene	ND		0.025		mg/Kg	⊗	08/27/14 10:16	08/28/14 01:22	1
Toluene	ND		0.025		mg/Kg	⊗	08/27/14 10:16	08/28/14 01:22	1
Xylenes, Total	ND		0.075		mg/Kg	⊗	08/27/14 10:16	08/28/14 01:22	1
o-Xylene	ND		0.025		mg/Kg	⊗	08/27/14 10:16	08/28/14 01:22	1
m,p-Xylene	ND		0.050		mg/Kg	⊗	08/27/14 10:16	08/28/14 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120				08/27/14 10:16	08/28/14 01:22	1
Dibromofluoromethane (Surr)	103		80 - 120				08/27/14 10:16	08/28/14 01:22	1
Toluene-d8 (Surr)	95		80 - 120				08/27/14 10:16	08/28/14 01:22	1
Trifluorotoluene (Surr)	89		50 - 150				08/27/14 10:16	08/28/14 01:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND	*	2.5		mg/Kg	⊗	08/27/14 10:16	08/28/14 01:22	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120				08/27/14 10:16	08/28/14 01:22	1
Dibromofluoromethane (Surr)	103		71.5 - 139				08/27/14 10:16	08/28/14 01:22	1
Toluene-d8 (Surr)	95		77.2 - 120				08/27/14 10:16	08/28/14 01:22	1
Trifluorotoluene (Surr)	89		50 - 150				08/27/14 10:16	08/28/14 01:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	ND		23		mg/Kg	⊗	08/27/14 10:17	08/29/14 23:07	1
C25-C36	ND		59		mg/Kg	⊗	08/27/14 10:17	08/29/14 23:07	1

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: S-2

Date Collected: 08/18/14 09:11
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-2

Matrix: Solid

Percent Solids: 85.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	104		50 - 150	08/27/14 10:17	08/29/14 23:07	1
n-Triacontane (Surr)	107		50 - 150	08/27/14 10:17	08/29/14 23:07	1

Client Sample ID: S-3

Date Collected: 08/18/14 09:57
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-3

Matrix: Solid

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	30		25		mg/Kg	⊗	08/27/14 10:17	08/29/14 23:40	1
C25-C36	ND		63		mg/Kg	⊗	08/27/14 10:17	08/29/14 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	105		50 - 150				08/27/14 10:17	08/29/14 23:40	1
n-Triacontane (Surr)	107		50 - 150				08/27/14 10:17	08/29/14 23:40	1

Client Sample ID: S-4

Date Collected: 08/18/14 10:05
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-4

Matrix: Solid

Percent Solids: 45.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	1000		43		mg/Kg	⊗	08/27/14 10:17	08/30/14 00:12	1
C25-C36	110		110		mg/Kg	⊗	08/27/14 10:17	08/30/14 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	111		50 - 150				08/27/14 10:17	08/30/14 00:12	1
n-Triacontane (Surr)	103		50 - 150				08/27/14 10:17	08/30/14 00:12	1

Client Sample ID: S-5

Date Collected: 08/18/14 10:15
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-5

Matrix: Solid

Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	120		25		mg/Kg	⊗	08/27/14 10:17	08/30/14 00:44	1
C25-C36	ND		63		mg/Kg	⊗	08/27/14 10:17	08/30/14 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	100		50 - 150				08/27/14 10:17	08/30/14 00:44	1
n-Triacontane (Surr)	101		50 - 150				08/27/14 10:17	08/30/14 00:44	1

Client Sample ID: S-6

Date Collected: 08/18/14 10:27
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-6

Matrix: Solid

Percent Solids: 76.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	450		26		mg/Kg	⊗	08/27/14 10:17	08/30/14 01:16	1
C25-C36	ND		65		mg/Kg	⊗	08/27/14 10:17	08/30/14 01:16	1

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: S-6

Date Collected: 08/18/14 10:27
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-6

Matrix: Solid

Percent Solids: 76.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	107		50 - 150	08/27/14 10:17	08/30/14 01:16	1
n-Triacontane (Surr)	103		50 - 150	08/27/14 10:17	08/30/14 01:16	1

Client Sample ID: S-7

Date Collected: 08/18/14 10:45
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-7

Matrix: Solid

Percent Solids: 66.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	2900		30		mg/Kg	⊗	08/27/14 10:17	08/30/14 01:48	1
C25-C36	110		75		mg/Kg	⊗	08/27/14 10:17	08/30/14 01:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	112		50 - 150				08/27/14 10:17	08/30/14 01:48	1
n-Triacontane (Surr)	101		50 - 150				08/27/14 10:17	08/30/14 01:48	1

Client Sample ID: S-8

Date Collected: 08/18/14 11:07
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-8

Matrix: Solid

Percent Solids: 75.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	180		27		mg/Kg	⊗	08/27/14 10:17	08/30/14 02:20	1
C25-C36	200		68		mg/Kg	⊗	08/27/14 10:17	08/30/14 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	97		50 - 150				08/27/14 10:17	08/30/14 02:20	1
n-Triacontane (Surr)	105		50 - 150				08/27/14 10:17	08/30/14 02:20	1

Client Sample ID: S-9

Date Collected: 08/18/14 11:23
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-9

Matrix: Solid

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	ND		23		mg/Kg	⊗	08/27/14 10:17	08/30/14 02:53	1
C25-C36	ND		57		mg/Kg	⊗	08/27/14 10:17	08/30/14 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	105		50 - 150				08/27/14 10:17	08/30/14 02:53	1
n-Triacontane (Surr)	108		50 - 150				08/27/14 10:17	08/30/14 02:53	1

Client Sample ID: S-10

Date Collected: 08/18/14 11:45
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-10

Matrix: Solid

Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	ND		26		mg/Kg	⊗	08/27/14 10:17	08/30/14 03:25	1
C25-C36	ND		66		mg/Kg	⊗	08/27/14 10:17	08/30/14 03:25	1

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: S-10

Date Collected: 08/18/14 11:45
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-10

Matrix: Solid

Percent Solids: 75.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	89		50 - 150	08/27/14 10:17	08/30/14 03:25	1
n-Triacontane (Surr)	95		50 - 150	08/27/14 10:17	08/30/14 03:25	1

Client Sample ID: S-11

Date Collected: 08/18/14 12:05
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-11

Matrix: Solid

Percent Solids: 34.7

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	450		56		mg/Kg	⊗	08/27/14 10:17	08/30/14 03:57	1
C25-C36	ND		140		mg/Kg	⊗	08/27/14 10:17	08/30/14 03:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	104		50 - 150				08/27/14 10:17	08/30/14 03:57	1
n-Triacontane (Surr)	110		50 - 150				08/27/14 10:17	08/30/14 03:57	1

Client Sample ID: S-12

Date Collected: 08/18/14 12:17
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-12

Matrix: Solid

Percent Solids: 32.7

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	1300		59		mg/Kg	⊗	08/27/14 10:17	08/30/14 05:01	1
C25-C36	ND		150		mg/Kg	⊗	08/27/14 10:17	08/30/14 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	99		50 - 150				08/27/14 10:17	08/30/14 05:01	1
n-Triacontane (Surr)	100		50 - 150				08/27/14 10:17	08/30/14 05:01	1

Client Sample ID: S-13

Date Collected: 08/18/14 12:30
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-13

Matrix: Solid

Percent Solids: 75.0

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C25-C36	1200		65		mg/Kg	⊗	08/27/14 10:17	08/30/14 05:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Triacontane (Surr)	119		50 - 150				08/27/14 10:17	08/30/14 05:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	5300		260		mg/Kg	⊗	08/27/14 10:17	09/02/14 09:15	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	206	X	50 - 150				08/27/14 10:17	09/02/14 09:15	10

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: S-14

Date Collected: 08/18/14 12:49
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-14
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	4000		220		mg/Kg	⊗	08/27/14 10:17	09/03/14 12:15	10
C25-C36	2600		560		mg/Kg	⊗	08/27/14 10:17	09/03/14 12:15	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	76		50 - 150				08/27/14 10:17	09/03/14 12:15	10
n-Triacontane (Surr)	85		50 - 150				08/27/14 10:17	09/03/14 12:15	10

Client Sample ID: S-15

Date Collected: 08/18/14 12:58
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-15
Matrix: Solid
Percent Solids: 69.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	2000		28		mg/Kg	⊗	08/27/14 10:17	08/30/14 06:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	104		50 - 150				08/27/14 10:17	08/30/14 06:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C25-C36	4000		690		mg/Kg	⊗	08/27/14 10:17	09/02/14 10:19	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Triacontane (Surr)	97		50 - 150				08/27/14 10:17	09/02/14 10:19	10

Client Sample ID: T.H.WELL

Date Collected: 08/18/14 13:30
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			08/26/14 23:55	1
Ethylbenzene	ND		1.0		ug/L			08/26/14 23:55	1
Toluene	ND		1.0		ug/L			08/26/14 23:55	1
Xylenes, Total	ND		1.0		ug/L			08/26/14 23:55	1
o-Xylene	ND		1.0		ug/L			08/26/14 23:55	1
m,p-Xylene	ND		2.0		ug/L			08/26/14 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		57.8 - 139					08/26/14 23:55	1
Dibromofluoromethane (Surr)	106		35.8 - 145					08/26/14 23:55	1
Toluene-d8 (Surr)	99		38.6 - 147					08/26/14 23:55	1
Trifluorotoluene (Surr)								08/26/14 23:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND	*	50		ug/L			08/26/14 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120					08/26/14 23:55	1
Dibromofluoromethane (Surr)	106		72.7 - 135					08/26/14 23:55	1

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: T.H.WELL
Date Collected: 08/18/14 13:30
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-16
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		72.4 - 121		08/26/14 23:55		1
Trifluorotoluene (Surr)					08/26/14 23:55		1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.38		mg/L	D	08/28/14 10:55	08/29/14 18:48	1
Residual Range Organics (RRO) (C25-C36)	ND		0.38		mg/L		08/28/14 10:55	08/29/14 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	96		50 - 150				08/28/14 10:55	08/29/14 18:48	1
n-Triacontane (Surr)	98		50 - 150				08/28/14 10:55	08/29/14 18:48	1

Client Sample ID: SNYDER WELL

Lab Sample ID: 230-265-17
Matrix: Water

Date Collected: 08/18/14 12:40
Date Received: 08/25/14 08:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND	*	50		ug/L	D	08/27/14 02:03		1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120				08/27/14 02:03		1
Dibromofluoromethane (Surr)	101		72.7 - 135				08/27/14 02:03		1
Toluene-d8 (Surr)	98		72.4 - 121				08/27/14 02:03		1
Trifluorotoluene (Surr)							08/27/14 02:03		1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.38		mg/L	D	08/28/14 10:55	08/29/14 19:53	1
Residual Range Organics (RRO) (C25-C36)	ND		0.38		mg/L		08/28/14 10:55	08/29/14 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	96		50 - 150				08/28/14 10:55	08/29/14 19:53	1
n-Triacontane (Surr)	103		50 - 150				08/28/14 10:55	08/29/14 19:53	1

Client Sample ID: D.WELL

Lab Sample ID: 230-265-18
Matrix: Water

Date Collected: 08/18/14 13:35
Date Received: 08/25/14 08:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L		08/27/14 02:35		1
Ethylbenzene	ND		1.0		ug/L		08/27/14 02:35		1
Toluene	ND		1.0		ug/L		08/27/14 02:35		1
Xylenes, Total	ND		1.0		ug/L		08/27/14 02:35		1
o-Xylene	ND		1.0		ug/L		08/27/14 02:35		1
m,p-Xylene	ND		2.0		ug/L		08/27/14 02:35		1

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: D.WELL
Date Collected: 08/18/14 13:35
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-18
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		57.8 - 139		08/27/14 02:35	1
Dibromofluoromethane (Surr)	101		35.8 - 145		08/27/14 02:35	1
Toluene-d8 (Surr)	100		38.6 - 147		08/27/14 02:35	1
Trifluorotoluene (Surr)					08/27/14 02:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND	*	50		ug/L			08/27/14 02:35	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120					08/27/14 02:35	1
Dibromofluoromethane (Surr)	101		72.7 - 135					08/27/14 02:35	1
Toluene-d8 (Surr)	100		72.4 - 121					08/27/14 02:35	1
Trifluorotoluene (Surr)								08/27/14 02:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.39		mg/L			08/28/14 10:55	1
Residual Range Organics (RRO) (C25-C36)	ND		0.39		mg/L			08/28/14 10:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	105		50 - 150					08/28/14 10:55	1
n-Triacontane (Surr)	105		50 - 150					08/28/14 10:55	1

Client Sample ID: MW-1

Date Collected: 08/18/14 15:40
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND	*	50		ug/L			08/27/14 03:07	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120					08/27/14 03:07	1
Dibromofluoromethane (Surr)	103		72.7 - 135					08/27/14 03:07	1
Toluene-d8 (Surr)	99		72.4 - 121					08/27/14 03:07	1
Trifluorotoluene (Surr)								08/27/14 03:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.40		mg/L			08/28/14 10:55	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40		mg/L			08/28/14 10:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	99		50 - 150					08/28/14 10:55	1
n-Triacontane (Surr)	101		50 - 150					08/28/14 10:55	1

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: MW-2
Date Collected: 08/18/14 16:10
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND *		50		ug/L			08/27/14 03:40	1
Surrogate									
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
99			80 - 120					08/27/14 03:40	1
Dibromofluoromethane (Surr)			72.7 - 135					08/27/14 03:40	1
Toluene-d8 (Surr)			72.4 - 121					08/27/14 03:40	1
Trifluorotoluene (Surr)								08/27/14 03:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.57		0.39		mg/L		08/28/14 10:55	08/29/14 21:30	1
Residual Range Organics (RRO) (C25-C36)	2.7		0.39		mg/L		08/28/14 10:55	08/29/14 21:30	1
Surrogate									
1-Chlorooctadecane	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
103			50 - 150				08/28/14 10:55	08/29/14 21:30	1
n-Triacontane (Surr)			50 - 150				08/28/14 10:55	08/29/14 21:30	1

Client Sample ID: S-D

Date Collected: 08/18/14 09:16
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-21

Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0093		mg/Kg	☀	08/27/14 10:16	08/28/14 01:54	1
Ethylbenzene	ND		0.023		mg/Kg	☀	08/27/14 10:16	08/28/14 01:54	1
Toluene	ND		0.023		mg/Kg	☀	08/27/14 10:16	08/28/14 01:54	1
Xylenes, Total	ND		0.070		mg/Kg	☀	08/27/14 10:16	08/28/14 01:54	1
o-Xylene	ND		0.023		mg/Kg	☀	08/27/14 10:16	08/28/14 01:54	1
m,p-Xylene	ND		0.047		mg/Kg	☀	08/27/14 10:16	08/28/14 01:54	1
Surrogate									
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
100			80 - 120				08/27/14 10:16	08/28/14 01:54	1
Dibromofluoromethane (Surr)			80 - 120				08/27/14 10:16	08/28/14 01:54	1
Toluene-d8 (Surr)			80 - 120				08/27/14 10:16	08/28/14 01:54	1
Trifluorotoluene (Surr)			50 - 150				08/27/14 10:16	08/28/14 01:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND *		2.3		mg/Kg	☀	08/27/14 10:16	08/28/14 01:54	1
Surrogate									
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
100			80 - 120				08/27/14 10:16	08/28/14 01:54	1
Dibromofluoromethane (Surr)			71.5 - 139				08/27/14 10:16	08/28/14 01:54	1
Toluene-d8 (Surr)			77.2 - 120				08/27/14 10:16	08/28/14 01:54	1
Trifluorotoluene (Surr)			50 - 150				08/27/14 10:16	08/28/14 01:54	1

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: S-D

Date Collected: 08/18/14 09:16
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-21

Matrix: Solid

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C25	ND		24		mg/Kg	⊗	08/27/14 10:17	08/30/14 07:09	1
C25-C36	ND		60		mg/Kg	⊗	08/27/14 10:17	08/30/14 07:09	1
Surrogate									
1-Chlorooctadecane	106		50 - 150				08/27/14 10:17	08/30/14 07:09	1
n-Triacontane (Surr)	107		50 - 150				08/27/14 10:17	08/30/14 07:09	1

Client Sample ID: TRIP BLANK

Date Collected: 08/18/14 00:00
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-22

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			08/27/14 04:12	1
Ethylbenzene	ND		1.0		ug/L			08/27/14 04:12	1
Toluene	ND		1.0		ug/L			08/27/14 04:12	1
Xylenes, Total	ND		1.0		ug/L			08/27/14 04:12	1
o-Xylene	ND		1.0		ug/L			08/27/14 04:12	1
m,p-Xylene	ND		2.0		ug/L			08/27/14 04:12	1
Surrogate									
4-Bromofluorobenzene (Surr)	97		57.8 - 139					08/27/14 04:12	1
Dibromofluoromethane (Surr)	107		35.8 - 145					08/27/14 04:12	1
Toluene-d8 (Surr)	96		38.6 - 147					08/27/14 04:12	1
Trifluorotoluene (Surr)								08/27/14 04:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND	*	50		ug/L			08/27/14 04:12	1
-C6-C10									
Surrogate									
4-Bromofluorobenzene (Surr)	97		80 - 120					08/27/14 04:12	1
Dibromofluoromethane (Surr)	107		72.7 - 135					08/27/14 04:12	1
Toluene-d8 (Surr)	96		72.4 - 121					08/27/14 04:12	1
Trifluorotoluene (Surr)								08/27/14 04:12	1

Client Sample ID: TRIP BLANK

Date Collected: 08/18/14 00:00
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-23

Matrix: Solid

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.013		mg/Kg	⊗	08/27/14 10:16	08/28/14 02:26	1
Ethylbenzene	ND		0.033		mg/Kg	⊗	08/27/14 10:16	08/28/14 02:26	1
Toluene	ND		0.033		mg/Kg	⊗	08/27/14 10:16	08/28/14 02:26	1
Xylenes, Total	ND		0.10		mg/Kg	⊗	08/27/14 10:16	08/28/14 02:26	1
o-Xylene	ND		0.033		mg/Kg	⊗	08/27/14 10:16	08/28/14 02:26	1
m,p-Xylene	ND		0.067		mg/Kg	⊗	08/27/14 10:16	08/28/14 02:26	1

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 230-265-23

Date Collected: 08/18/14 00:00
Date Received: 08/25/14 08:55

Matrix: Solid

Percent Solids: 100.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120	08/27/14 10:16	08/28/14 02:26	1
Dibromofluoromethane (Surr)	102		80 - 120	08/27/14 10:16	08/28/14 02:26	1
Toluene-d8 (Surr)	100		80 - 120	08/27/14 10:16	08/28/14 02:26	1
Trifluorotoluene (Surr)	76		50 - 150	08/27/14 10:16	08/28/14 02:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	37	*	3.3		mg/Kg		08/27/14 10:16	08/28/14 02:26	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120				08/27/14 10:16	08/28/14 02:26	1
Dibromofluoromethane (Surr)	102		71.5 - 139				08/27/14 10:16	08/28/14 02:26	1
Toluene-d8 (Surr)	100		77.2 - 120				08/27/14 10:16	08/28/14 02:26	1
Trifluorotoluene (Surr)	76		50 - 150				08/27/14 10:16	08/28/14 02:26	1

TestAmerica Anchorage

Surrogate Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (80-120)	DBFM (80-120)	TOL (80-120)	TFT (50-150)
230-265-2	S-2	98	103	95	89
230-265-21	S-D	100	99	98	111
230-265-23	TRIP BLANK	101	102	100	76
LCS 230-1032/2-A	Lab Control Sample	102	99	96	103
LCS 230-1036/1011	Lab Control Sample	104	98	101	96
LCSD 230-1032/3-A	Lab Control Sample Dup	105	100	99	100
LCSD 230-1036/12	Lab Control Sample Dup	101	99	98	101
MB 230-1032/1-A	Method Blank	105	102	101	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

TFT = Trifluorotoluene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (80-120)	DBFM (80-120)	TOL (80-120)	TFT
MB 230-1036/29	Method Blank	97	103	97	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

TFT = Trifluorotoluene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (57.8-139)	DBFM (35.8-145)	TOL (38.6-147)	TFT
230-265-16	T.H.WELL	100	106	99	
230-265-18	D.WELL	100	101	100	
230-265-22	TRIP BLANK	97	107	96	
LCS 230-1018/1010	Lab Control Sample	101	99	97	101
LCSD 230-1018/11	Lab Control Sample Dup	102	97	99	107
MB 230-1018/24	Method Blank	99	101	100	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

TFT = Trifluorotoluene (Surr)

TestAmerica Anchorage

Surrogate Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (80-120)	DBFM (71.5-139)	TOL (77.2-120)	TFT (50-150)
230-265-1	S-1	99	99	96	74
230-265-1 DU	S-1	99	98	99	79
230-265-2	S-2	98	103	95	89
230-265-21	S-D	100	99	98	111
230-265-23	TRIP BLANK	101	102	100	76
LCS 230-1032/4-A	Lab Control Sample	100	98	98	107
LCSD 230-1032/5-A	Lab Control Sample Dup	101	101	99	100
MB 230-1032/1-A	Method Blank	105	102	101	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

TFT = Trifluorotoluene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (80-120)	DBFM (72.7-135)	TOL (72.4-121)	TFT
230-265-16	T.H.WELL	100	106	99	
230-265-17	SNYDER WELL	100	101	98	
230-265-18	D.WELL	100	101	100	
230-265-19	MW-1	99	103	99	
230-265-20	MW-2	99	102	101	
230-265-22	TRIP BLANK	97	107	96	
LCS 230-1017/1031	Lab Control Sample	99	98	99	
LCSD 230-1017/32	Lab Control Sample Dup	100	97	98	
MB 230-1017/24	Method Blank	99	101	100	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

TFT = Trifluorotoluene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1COD (50-150)	acontane (50-150)
230-265-1	S-1	107	109
230-265-1 DU	S-1	102	105
230-265-1 MS	S-1	111	106
230-265-1 MSD	S-1	111	106
230-265-2	S-2	104	107
230-265-3	S-3	105	107
230-265-4	S-4	111	103

TestAmerica Anchorage

Surrogate Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		1COD (50-150)	acontane (t) (50-150)	
230-265-5	S-5	100	101	
230-265-6	S-6	107	103	
230-265-7	S-7	112	101	
230-265-8	S-8	97	105	
230-265-9	S-9	105	108	
230-265-10	S-10	89	95	
230-265-11	S-11	104	110	
230-265-12	S-12	99	100	
230-265-13	S-13		119	
230-265-13 - DL	S-13	206 X		
230-265-14	S-14	76	85	
230-265-15	S-15	104		
230-265-15 - DL	S-15		97	
230-265-21	S-D	106	107	
LCS 230-1034/2-A	Lab Control Sample	109	105	
LCSD 230-1034/3-A	Lab Control Sample Dup	110	103	
MB 230-1034/1-A	Method Blank	104	105	

Surrogate Legend

1COD = 1-Chlorooctadecane

n-Triacontane (Surr) = n-Triacontane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		1COD (50-150)	acontane (t) (50-150)	
230-265-16	T.H.WELL	96	98	
230-265-16 DU	T.H.WELL	96	101	
230-265-17	SNYDER WELL	96	103	
230-265-18	D.WELL	105	105	
230-265-19	MW-1	99	101	
230-265-20	MW-2	103	105	
LCS 230-1045/2-A	Lab Control Sample	112	107	
LCSD 230-1045/3-A	Lab Control Sample Dup	102	99	
MB 230-1045/1-A	Method Blank	99	102	

Surrogate Legend

1COD = 1-Chlorooctadecane

n-Triacontane (Surr) = n-Triacontane (Surr)

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

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

Lab Sample ID: MB 230-1018/24

Matrix: Water

Analysis Batch: 1018

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.50		ug/L			08/26/14 16:55	1
Ethylbenzene	ND		1.0		ug/L			08/26/14 16:55	1
Toluene	ND		1.0		ug/L			08/26/14 16:55	1
Xylenes, Total	ND		1.0		ug/L			08/26/14 16:55	1
o-Xylene	ND		1.0		ug/L			08/26/14 16:55	1
m,p-Xylene	ND		2.0		ug/L			08/26/14 16:55	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Spike	LCS						
4-Bromofluorobenzene (Surr)	99		57.8 - 139				08/26/14 16:55	1
Dibromofluoromethane (Surr)	101		35.8 - 145				08/26/14 16:55	1
Toluene-d8 (Surr)	100		38.6 - 147				08/26/14 16:55	1
Trifluorotoluene (Surr)							08/26/14 16:55	1

Lab Sample ID: LCS 230-1018/1010

Matrix: Water

Analysis Batch: 1018

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spikes	LCS	LCS	Result	Qualifier	Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier							
Benzene	20.0	20.8				ug/L		104	73.8 - 128	
Ethylbenzene	20.0	21.0				ug/L		105	78 - 130	
Toluene	20.0	20.8				ug/L		104	75.6 - 124	
Xylenes, Total	60.0	62.4				ug/L		104	70 - 130	
o-Xylene	20.0	20.5				ug/L		102	75.1 - 137	
m,p-Xylene	40.0	41.9				ug/L		105	76 - 137	

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Spike	LCS						
4-Bromofluorobenzene (Surr)	101		57.8 - 139					
Dibromofluoromethane (Surr)	99		35.8 - 145					
Toluene-d8 (Surr)	97		38.6 - 147					
Trifluorotoluene (Surr)	101							

Lab Sample ID: LCSD 230-1018/11

Matrix: Water

Analysis Batch: 1018

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier								
Benzene	20.0	22.4				ug/L		112	73.8 - 128	7	20
Ethylbenzene	20.0	23.6				ug/L		118	78 - 130	12	20
Toluene	20.0	22.2				ug/L		111	75.6 - 124	6	20
Xylenes, Total	60.0	69.5				ug/L		116	70 - 130	11	20
o-Xylene	20.0	22.8				ug/L		114	75.1 - 137	11	20
m,p-Xylene	40.0	46.7				ug/L		117	76 - 137	11	20

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Spike	LCS						
4-Bromofluorobenzene (Surr)	102		57.8 - 139					
Dibromofluoromethane (Surr)	97		35.8 - 145					
Toluene-d8 (Surr)	99		38.6 - 147					

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

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

Lab Sample ID: LCSD 230-1018/11

Matrix: Water

Analysis Batch: 1018

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD	LCSD	
	%Recovery	Qualifier	Limits
Trifluorotoluene (Surr)	107		

Lab Sample ID: MB 230-1032/1-A

Matrix: Solid

Analysis Batch: 1036

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1032

Analyte	MB	MB		MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier	RL						
Benzene	ND		0.013		mg/Kg		08/27/14 10:16	08/27/14 20:33	1
Ethylbenzene	ND		0.033		mg/Kg		08/27/14 10:16	08/27/14 20:33	1
Toluene	ND		0.033		mg/Kg		08/27/14 10:16	08/27/14 20:33	1
Xylenes, Total	ND		0.10		mg/Kg		08/27/14 10:16	08/27/14 20:33	1
o-Xylene	ND		0.033		mg/Kg		08/27/14 10:16	08/27/14 20:33	1
m,p-Xylene	ND		0.067		mg/Kg		08/27/14 10:16	08/27/14 20:33	1
Surrogate	MB	MB					Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	105		80 - 120				08/27/14 10:16	08/27/14 20:33	1
Dibromofluoromethane (Surr)	102		80 - 120				08/27/14 10:16	08/27/14 20:33	1
Toluene-d8 (Surr)	101		80 - 120				08/27/14 10:16	08/27/14 20:33	1
Trifluorotoluene (Surr)	100		50 - 150				08/27/14 10:16	08/27/14 20:33	1

Lab Sample ID: LCS 230-1032/2-A

Matrix: Solid

Analysis Batch: 1036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1032

Analyte	Spike	LCS	LCS		%Rec.			
	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.800	0.806		mg/Kg		101	70 - 130	
Ethylbenzene	0.800	0.832		mg/Kg		104	70 - 130	
Toluene	0.800	0.793		mg/Kg		99	70 - 130	
Xylenes, Total	2.40	2.49		mg/Kg		104	70 - 130	
o-Xylene	0.800	0.824		mg/Kg		103	70 - 130	
m,p-Xylene	1.60	1.67		mg/Kg		104	70 - 130	
Surrogate	LCS	LCS						
	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	102		80 - 120					
Dibromofluoromethane (Surr)	99		80 - 120					
Toluene-d8 (Surr)	96		80 - 120					
Trifluorotoluene (Surr)	103		50 - 150					

Lab Sample ID: LCSD 230-1032/3-A

Matrix: Solid

Analysis Batch: 1036

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1032

Analyte	Spike	LCSD	LCSD		%Rec.		RPD		
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.800	0.816		mg/Kg		102	70 - 130	1	20
Ethylbenzene	0.800	0.868		mg/Kg		109	70 - 130	4	20
Toluene	0.800	0.823		mg/Kg		103	70 - 130	4	20
Xylenes, Total	2.40	2.56		mg/Kg		107	70 - 130	2	20

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

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

Lab Sample ID: LCSD 230-1032/3-A

Matrix: Solid

Analysis Batch: 1036

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1032

Analyte		Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
		Added	Result	Qualifier							
o-Xylene		0.800	0.827		mg/Kg		103	70 - 130	0	20	
m,p-Xylene		1.60	1.73		mg/Kg		108	70 - 130	4	20	

Surrogate	LCSD	LCSD	Limits
		%Recovery	Qualifier
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	99		80 - 120
Trifluorotoluene (Surr)	100		50 - 150

Lab Sample ID: MB 230-1036/29

Matrix: Solid

Analysis Batch: 1036

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.00040		mg/Kg			08/27/14 18:24	1
Ethylbenzene	ND		0.0010		mg/Kg			08/27/14 18:24	1
Toluene	ND		0.0010		mg/Kg			08/27/14 18:24	1
Xylenes, Total	ND		0.0030		mg/Kg			08/27/14 18:24	1
o-Xylene	ND		0.0010		mg/Kg			08/27/14 18:24	1
m,p-Xylene	ND		0.0020		mg/Kg			08/27/14 18:24	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	97		80 - 120			1
Dibromofluoromethane (Surr)	103		80 - 120			1
Toluene-d8 (Surr)	97		80 - 120			1
Trifluorotoluene (Surr)					08/27/14 18:24	1

Lab Sample ID: LCS 230-1036/1011

Matrix: Solid

Analysis Batch: 1036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike	LCS	LCS	Unit	D	%Rec	Limits	
		Added	Result	Qualifier					
Benzene		0.0200	0.0204		mg/Kg		102	70 - 130	
Ethylbenzene		0.0200	0.0218		mg/Kg		109	70 - 130	
Toluene		0.0200	0.0210		mg/Kg		105	70 - 130	
Xylenes, Total		0.0600	0.0637		mg/Kg		106	70 - 130	
o-Xylene		0.0200	0.0211		mg/Kg		106	70 - 130	
m,p-Xylene		0.0400	0.0426		mg/Kg		107	70 - 130	

Surrogate	LCS	LC	Limits
		%Recovery	Qualifier
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	101		80 - 120
Trifluorotoluene (Surr)	96		50 - 150

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

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

Lab Sample ID: LCSD 230-1036/12

Matrix: Solid

Analysis Batch: 1036

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Benzene	0.0200	0.0214		mg/Kg		107	70 - 130	5	20
Ethylbenzene	0.0200	0.0225		mg/Kg		113	70 - 130	3	20
Toluene	0.0200	0.0215		mg/Kg		108	70 - 130	3	20
Xylenes, Total	0.0600	0.0659		mg/Kg		110	70 - 130	3	20
o-Xylene	0.0200	0.0216		mg/Kg		108	70 - 130	2	20
m,p-Xylene	0.0400	0.0443		mg/Kg		111	70 - 130	4	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	98		80 - 120
Trifluorotoluene (Surr)	101		50 - 150

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

Lab Sample ID: MB 230-1017/24

Matrix: Water

Analysis Batch: 1017

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		50		ug/L			08/26/14 16:55	1
<hr/>									
<hr/>									
<hr/>									
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120					08/26/14 16:55	1
Dibromofluoromethane (Surr)	101		72.7 - 135					08/26/14 16:55	1
Toluene-d8 (Surr)	100		72.4 - 121					08/26/14 16:55	1
Trifluorotoluene (Surr)								08/26/14 16:55	1

Lab Sample ID: LCS 230-1017/1031

Matrix: Water

Analysis Batch: 1017

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Gasoline Range Organics (GRO) -C6-C10	500	793	*	ug/L		159	60 - 120	
<hr/>								
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<hr/>								
Surrogate	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	99		80 - 120					
Dibromofluoromethane (Surr)	98		72.7 - 135					
Toluene-d8 (Surr)	99		72.4 - 121					

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

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

Lab Sample ID: LCSD 230-1017/32

Matrix: Water

Analysis Batch: 1017

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	500	777	*	ug/L		155	60 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	97		72.7 - 135
Toluene-d8 (Surr)	98		72.4 - 121

Lab Sample ID: MB 230-1032/1-A

Matrix: Solid

Analysis Batch: 1035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1032

Analyte	MB Result	MB Qualifier	MB RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		3.3		mg/Kg		08/27/14 10:16	08/27/14 20:33	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120	08/27/14 10:16	08/27/14 20:33	1
Dibromofluoromethane (Surr)	102		71.5 - 139	08/27/14 10:16	08/27/14 20:33	1
Toluene-d8 (Surr)	101		77.2 - 120	08/27/14 10:16	08/27/14 20:33	1
Trifluorotoluene (Surr)	100		50 - 150	08/27/14 10:16	08/27/14 20:33	1

Lab Sample ID: LCS 230-1032/4-A

Matrix: Solid

Analysis Batch: 1035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Gasoline Range Organics (GRO) -C6-C10	20.0	23.1		mg/Kg		115	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	98		71.5 - 139
Toluene-d8 (Surr)	98		77.2 - 120
Trifluorotoluene (Surr)	107		50 - 150

Lab Sample ID: LCSD 230-1032/5-A

Matrix: Solid

Analysis Batch: 1035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.
Gasoline Range Organics (GRO) -C6-C10	20.0	24.2	*	mg/Kg		121	60 - 120

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	101		71.5 - 139
Toluene-d8 (Surr)	99		77.2 - 120

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

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

Lab Sample ID: LCSD 230-1032/5-A

Matrix: Solid

Analysis Batch: 1035

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1032

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

Lab Sample ID: 230-265-1 DU

Matrix: Solid

Analysis Batch: 1035

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 1032

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
	ND	*	ND	*	mg/Kg	⊗	83	
Gasoline Range Organics (GRO)								
-C6-C10								
Surrogate	DU %Recovery	DU Qualifier	Limits					
4-Bromofluorobenzene (Surr)	99		80 - 120					
Dibromofluoromethane (Surr)	98		71.5 - 139					
Toluene-d8 (Surr)	99		77.2 - 120					
Trifluorotoluene (Surr)	79		50 - 150					

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

Lab Sample ID: MB 230-1034/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 1042

Prep Batch: 1034

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND		20	mg/Kg		08/27/14 10:17	08/28/14 18:42		1
C10-C25	ND		50	mg/Kg		08/27/14 10:17	08/28/14 18:42		1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	104		50 - 150			08/27/14 10:17	08/28/14 18:42		1
n-Triacontane (Surr)	105		50 - 150			08/27/14 10:17	08/28/14 18:42		1

Lab Sample ID: LCS 230-1034/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 1042

Prep Batch: 1034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
	125	103		mg/Kg	82	75 - 125	
C10-C25	125	119		mg/Kg	95	60 - 120	
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctadecane	109		50 - 150				
n-Triacontane (Surr)	105		50 - 150				

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

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

Lab Sample ID: LCSD 230-1034/3-A

Matrix: Solid

Analysis Batch: 1042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1034

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	RPD	RPD Limit
C10-C25	125	103		mg/Kg		83	75 - 125	0 20
C25-C36	125	115		mg/Kg		92	60 - 120	3 20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1-Chlorooctadecane	110		50 - 150
n-Triacontane (Surr)	103		50 - 150

Lab Sample ID: 230-265-1 MS

Matrix: Solid

Analysis Batch: 1042

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 1034

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	RPD	RPD Limit
C10-C25	ND		152	126	F1	mg/Kg	⊗	72	75 - 125	
C25-C36	ND		152	151		mg/Kg	⊗	81	60 - 120	

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1-Chlorooctadecane	111		50 - 150
n-Triacontane (Surr)	106		50 - 150

Lab Sample ID: 230-265-1 MSD

Matrix: Solid

Analysis Batch: 1042

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 1034

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	RPD Limit
C10-C25	ND		151	131		mg/Kg	⊗	76	75 - 125	4 20
C25-C36	ND		151	176		mg/Kg	⊗	98	60 - 120	15 20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1-Chlorooctadecane	111		50 - 150
n-Triacontane (Surr)	106		50 - 150

Lab Sample ID: 230-265-1 DU

Matrix: Solid

Analysis Batch: 1042

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 1034

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
C10-C25	ND		ND		mg/Kg	⊗	41	20
C25-C36	ND		ND		mg/Kg	⊗	24	20

Surrogate	DU %Recovery	DU Qualifier	DU Limits
1-Chlorooctadecane	102		50 - 150
n-Triacontane (Surr)	105		50 - 150

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

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

Lab Sample ID: MB 230-1045/1-A

Matrix: Water

Analysis Batch: 1046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.50		mg/L		08/28/14 10:55	08/29/14 11:52	1
Residual Range Organics (RRO) (C25-C36)	ND		0.50		mg/L		08/28/14 10:55	08/29/14 11:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	99		50 - 150				08/28/14 10:55	08/29/14 11:52	1
n-Triacontane (Surr)	102		50 - 150				08/28/14 10:55	08/29/14 11:52	1

Lab Sample ID: LCS 230-1045/2-A

Matrix: Water

Analysis Batch: 1046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1045

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Diesel Range Organics (DRO) (C10-C25)		10.0	8.80		mg/L		88	75 - 125	
Residual Range Organics (RRO) (C25-C36)		10.0	9.06		mg/L		91	60 - 120	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctadecane	112		50 - 150						
n-Triacontane (Surr)	107		50 - 150						

Lab Sample ID: LCSD 230-1045/3-A

Matrix: Water

Analysis Batch: 1046

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1045

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD	Limit
Diesel Range Organics (DRO) (C10-C25)		10.0	7.67		mg/L		77	75 - 125	14	14	20
Residual Range Organics (RRO) (C25-C36)		10.0	8.35		mg/L		83	60 - 120	8	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctadecane	102		50 - 150								
n-Triacontane (Surr)	99		50 - 150								

Lab Sample ID: 230-265-16 DU

Matrix: Water

Analysis Batch: 1046

Client Sample ID: T.H.WELL
Prep Type: Total/NA
Prep Batch: 1045

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD	Limit
Diesel Range Organics (DRO) (C10-C25)	ND		ND		mg/L		NC	20	
Residual Range Organics (RRO) (C25-C36)	ND		ND		mg/L		4	20	

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

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

Lab Sample ID: 230-265-16 DU

Client Sample ID: T.H.WELL

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 1046

Prep Batch: 1045

Surrogate	DU	DU	%Recovery	Qualifier	Limits
1-Chlorooctadecane			96		50 - 150
n-Triacontane (Surr)			101		50 - 150

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TestAmerica Anchorage

QC Association Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

GC/MS VOA

Analysis Batch: 1017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-16	T.H.WELL	Total/NA	Water	AK101	5
230-265-17	SNYDER WELL	Total/NA	Water	AK101	6
230-265-18	D.WELL	Total/NA	Water	AK101	7
230-265-19	MW-1	Total/NA	Water	AK101	8
230-265-20	MW-2	Total/NA	Water	AK101	9
230-265-22	TRIP BLANK	Total/NA	Water	AK101	10
LCS 230-1017/1031	Lab Control Sample	Total/NA	Water	AK101	11
LCSD 230-1017/32	Lab Control Sample Dup	Total/NA	Water	AK101	12
MB 230-1017/24	Method Blank	Total/NA	Water	AK101	13

Analysis Batch: 1018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-16	T.H.WELL	Total/NA	Water	8260B	10
230-265-18	D.WELL	Total/NA	Water	8260B	11
230-265-22	TRIP BLANK	Total/NA	Water	8260B	12
LCS 230-1018/1010	Lab Control Sample	Total/NA	Water	8260B	13
LCSD 230-1018/11	Lab Control Sample Dup	Total/NA	Water	8260B	14
MB 230-1018/24	Method Blank	Total/NA	Water	8260B	15

Prep Batch: 1032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-1	S-1	Total/NA	Solid	5035	1032
230-265-1 DU	S-1	Total/NA	Solid	5035	1032
230-265-2	S-2	Total/NA	Solid	5035	1032
230-265-21	S-D	Total/NA	Solid	5035	1032
230-265-23	TRIP BLANK	Total/NA	Solid	5035	1032
LCS 230-1032/2-A	Lab Control Sample	Total/NA	Solid	5035	1032
LCS 230-1032/4-A	Lab Control Sample	Total/NA	Solid	5035	1032
LCSD 230-1032/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	1032
LCSD 230-1032/5-A	Lab Control Sample Dup	Total/NA	Solid	5035	1032
MB 230-1032/1-A	Method Blank	Total/NA	Solid	5035	1032

Analysis Batch: 1035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-1	S-1	Total/NA	Solid	AK101	1032
230-265-1 DU	S-1	Total/NA	Solid	AK101	1032
230-265-2	S-2	Total/NA	Solid	AK101	1032
230-265-21	S-D	Total/NA	Solid	AK101	1032
230-265-23	TRIP BLANK	Total/NA	Solid	AK101	1032
LCS 230-1032/4-A	Lab Control Sample	Total/NA	Solid	AK101	1032
LCSD 230-1032/5-A	Lab Control Sample Dup	Total/NA	Solid	AK101	1032
MB 230-1032/1-A	Method Blank	Total/NA	Solid	AK101	1032

Analysis Batch: 1036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-2	S-2	Total/NA	Solid	8260B	1032
230-265-21	S-D	Total/NA	Solid	8260B	1032
230-265-23	TRIP BLANK	Total/NA	Solid	8260B	1032
LCS 230-1032/2-A	Lab Control Sample	Total/NA	Solid	8260B	1032
LCS 230-1036/1011	Lab Control Sample	Total/NA	Solid	8260B	1032
LCSD 230-1032/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B	1032

TestAmerica Anchorage

QC Association Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

GC/MS VOA (Continued)

Analysis Batch: 1036 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 230-1036/12	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 230-1032/1-A	Method Blank	Total/NA	Solid	8260B	1032
MB 230-1036/29	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 1034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-1	S-1	Total/NA	Solid	3545	
230-265-1 DU	S-1	Total/NA	Solid	3545	
230-265-1 MS	S-1	Total/NA	Solid	3545	
230-265-1 MSD	S-1	Total/NA	Solid	3545	
230-265-2	S-2	Total/NA	Solid	3545	
230-265-3	S-3	Total/NA	Solid	3545	
230-265-4	S-4	Total/NA	Solid	3545	
230-265-5	S-5	Total/NA	Solid	3545	
230-265-6	S-6	Total/NA	Solid	3545	
230-265-7	S-7	Total/NA	Solid	3545	
230-265-8	S-8	Total/NA	Solid	3545	
230-265-9	S-9	Total/NA	Solid	3545	
230-265-10	S-10	Total/NA	Solid	3545	
230-265-11	S-11	Total/NA	Solid	3545	
230-265-12	S-12	Total/NA	Solid	3545	
230-265-13	S-13	Total/NA	Solid	3545	
230-265-13 - DL	S-13	Total/NA	Solid	3545	
230-265-14	S-14	Total/NA	Solid	3545	
230-265-15 - DL	S-15	Total/NA	Solid	3545	
230-265-15	S-15	Total/NA	Solid	3545	
230-265-21	S-D	Total/NA	Solid	3545	
LCS 230-1034/2-A	Lab Control Sample	Total/NA	Solid	3545	
LCSD 230-1034/3-A	Lab Control Sample Dup	Total/NA	Solid	3545	
MB 230-1034/1-A	Method Blank	Total/NA	Solid	3545	

Analysis Batch: 1042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-1	S-1	Total/NA	Solid	AK102 & 103	1034
230-265-1 DU	S-1	Total/NA	Solid	AK102 & 103	1034
230-265-1 MS	S-1	Total/NA	Solid	AK102 & 103	1034
230-265-1 MSD	S-1	Total/NA	Solid	AK102 & 103	1034
LCS 230-1034/2-A	Lab Control Sample	Total/NA	Solid	AK102 & 103	1034
LCSD 230-1034/3-A	Lab Control Sample Dup	Total/NA	Solid	AK102 & 103	1034
MB 230-1034/1-A	Method Blank	Total/NA	Solid	AK102 & 103	1034

Prep Batch: 1045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-16	T.H.WELL	Total/NA	Water	3510C	
230-265-16 DU	T.H.WELL	Total/NA	Water	3510C	
230-265-17	SNYDER WELL	Total/NA	Water	3510C	
230-265-18	D.WELL	Total/NA	Water	3510C	
230-265-19	MW-1	Total/NA	Water	3510C	

TestAmerica Anchorage

QC Association Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

GC Semi VOA (Continued)

Prep Batch: 1045 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-20	MW-2	Total/NA	Water	3510C	
LCS 230-1045/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 230-1045/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 230-1045/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 1046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-2	S-2	Total/NA	Solid	AK102 & 103	1034
230-265-3	S-3	Total/NA	Solid	AK102 & 103	1034
230-265-4	S-4	Total/NA	Solid	AK102 & 103	1034
230-265-5	S-5	Total/NA	Solid	AK102 & 103	1034
230-265-6	S-6	Total/NA	Solid	AK102 & 103	1034
230-265-7	S-7	Total/NA	Solid	AK102 & 103	1034
230-265-8	S-8	Total/NA	Solid	AK102 & 103	1034
230-265-9	S-9	Total/NA	Solid	AK102 & 103	1034
230-265-10	S-10	Total/NA	Solid	AK102 & 103	1034
230-265-11	S-11	Total/NA	Solid	AK102 & 103	1034
230-265-12	S-12	Total/NA	Solid	AK102 & 103	1034
230-265-13	S-13	Total/NA	Solid	AK102 & 103	1034
230-265-15	S-15	Total/NA	Solid	AK102 & 103	1034
230-265-16	T.H.WELL	Total/NA	Water	AK102 & 103	1045
230-265-16 DU	T.H.WELL	Total/NA	Water	AK102 & 103	1045
230-265-17	SNYDER WELL	Total/NA	Water	AK102 & 103	1045
230-265-18	D.WELL	Total/NA	Water	AK102 & 103	1045
230-265-19	MW-1	Total/NA	Water	AK102 & 103	1045
230-265-20	MW-2	Total/NA	Water	AK102 & 103	1045
230-265-21	S-D	Total/NA	Solid	AK102 & 103	1034
LCS 230-1045/2-A	Lab Control Sample	Total/NA	Water	AK102 & 103	1045
LCSD 230-1045/3-A	Lab Control Sample Dup	Total/NA	Water	AK102 & 103	1045
MB 230-1045/1-A	Method Blank	Total/NA	Water	AK102 & 103	1045

Analysis Batch: 1051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-13 - DL	S-13	Total/NA	Solid	AK102 & 103	1034
230-265-15 - DL	S-15	Total/NA	Solid	AK102 & 103	1034

Analysis Batch: 1063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-14	S-14	Total/NA	Solid	AK102 & 103	1034

General Chemistry

Analysis Batch: 1016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-1	S-1	Total/NA	Solid	Moisture	
230-265-2	S-2	Total/NA	Solid	Moisture	
230-265-2 DU	S-2	Total/NA	Solid	Moisture	
230-265-3	S-3	Total/NA	Solid	Moisture	
230-265-4	S-4	Total/NA	Solid	Moisture	
230-265-5	S-5	Total/NA	Solid	Moisture	

TestAmerica Anchorage

QC Association Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

General Chemistry (Continued)

Analysis Batch: 1016 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-265-6	S-6	Total/NA	Solid	Moisture	1
230-265-7	S-7	Total/NA	Solid	Moisture	2
230-265-8	S-8	Total/NA	Solid	Moisture	3
230-265-9	S-9	Total/NA	Solid	Moisture	4
230-265-10	S-10	Total/NA	Solid	Moisture	5
230-265-11	S-11	Total/NA	Solid	Moisture	6
230-265-12	S-12	Total/NA	Solid	Moisture	7
230-265-13	S-13	Total/NA	Solid	Moisture	8
230-265-14	S-14	Total/NA	Solid	Moisture	9
230-265-15	S-15	Total/NA	Solid	Moisture	10
230-265-21	S-D	Total/NA	Solid	Moisture	11
230-265-23	TRIP BLANK	Total/NA	Solid	Moisture	12

Lab Chronicle

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: S-1

Date Collected: 08/18/14 09:00
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-1
Matrix: Solid
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1032	08/27/14 10:16	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1035	08/27/14 23:14	ASD	TAL ANC
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1042	08/28/14 20:19	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

Client Sample ID: S-2

Date Collected: 08/18/14 09:11
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-2
Matrix: Solid
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1032	08/27/14 10:16	ASD	TAL ANC
Total/NA	Analysis	8260B		1	1036	08/28/14 01:22	ASD	TAL ANC
Total/NA	Prep	5035			1032	08/27/14 10:16	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1035	08/28/14 01:22	ASD	TAL ANC
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 23:07	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

Client Sample ID: S-3

Date Collected: 08/18/14 09:57
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-3
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	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 23:40	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

Client Sample ID: S-4

Date Collected: 08/18/14 10:05
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-4
Matrix: Solid
Percent Solids: 45.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/30/14 00:12	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

TestAmerica Anchorage

Lab Chronicle

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: S-5

Date Collected: 08/18/14 10:15
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-5
Matrix: Solid
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/30/14 00:44	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

Client Sample ID: S-6

Date Collected: 08/18/14 10:27
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-6
Matrix: Solid
Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/30/14 01:16	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

Client Sample ID: S-7

Date Collected: 08/18/14 10:45
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-7
Matrix: Solid
Percent Solids: 66.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/30/14 01:48	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

Client Sample ID: S-8

Date Collected: 08/18/14 11:07
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-8
Matrix: Solid
Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/30/14 02:20	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

Client Sample ID: S-9

Date Collected: 08/18/14 11:23
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-9
Matrix: Solid
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/30/14 02:53	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

TestAmerica Anchorage

Lab Chronicle

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: S-10

Date Collected: 08/18/14 11:45
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-10

Matrix: Solid
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/30/14 03:25	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

Client Sample ID: S-11

Date Collected: 08/18/14 12:05
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-11

Matrix: Solid
Percent Solids: 34.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/30/14 03:57	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

Client Sample ID: S-12

Date Collected: 08/18/14 12:17
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-12

Matrix: Solid
Percent Solids: 32.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/30/14 05:01	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

Client Sample ID: S-13

Date Collected: 08/18/14 12:30
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-13

Matrix: Solid
Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/30/14 05:33	ASD	TAL ANC
Total/NA	Prep	3545	DL		1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103	DL	10	1051	09/02/14 09:15	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

Client Sample ID: S-14

Date Collected: 08/18/14 12:49
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-14

Matrix: Solid
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		10	1063	09/03/14 12:15	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

TestAmerica Anchorage

Lab Chronicle

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: S-15

Date Collected: 08/18/14 12:58
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-15
Matrix: Solid
Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/30/14 06:37	ASD	TAL ANC
Total/NA	Prep	3545	DL		1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103	DL	10	1051	09/02/14 10:19	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

Client Sample ID: T.H.WELL

Date Collected: 08/18/14 13:30
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1018	08/26/14 23:55	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1017	08/26/14 23:55	ASD	TAL ANC
Total/NA	Prep	3510C			1045	08/28/14 10:55	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 18:48	ASD	TAL ANC

Client Sample ID: SNYDER WELL

Date Collected: 08/18/14 12:40
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	1017	08/27/14 02:03	ASD	TAL ANC
Total/NA	Prep	3510C			1045	08/28/14 10:55	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 19:53	ASD	TAL ANC

Client Sample ID: D.WELL

Date Collected: 08/18/14 13:35
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1018	08/27/14 02:35	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1017	08/27/14 02:35	ASD	TAL ANC
Total/NA	Prep	3510C			1045	08/28/14 10:55	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 20:25	ASD	TAL ANC

Client Sample ID: MW-1

Date Collected: 08/18/14 15:40
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	1017	08/27/14 03:07	ASD	TAL ANC
Total/NA	Prep	3510C			1045	08/28/14 10:55	ASD	TAL ANC

TestAmerica Anchorage

Lab Chronicle

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Client Sample ID: MW-1

Date Collected: 08/18/14 15:40
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 20:58	ASD	TAL ANC

Client Sample ID: MW-2

Date Collected: 08/18/14 16:10
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	1017	08/27/14 03:40	ASD	TAL ANC
Total/NA	Prep	3510C			1045	08/28/14 10:55	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 21:30	ASD	TAL ANC

Client Sample ID: S-D

Date Collected: 08/18/14 09:16
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-21

Matrix: Solid
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1032	08/27/14 10:16	ASD	TAL ANC
Total/NA	Analysis	8260B		1	1036	08/28/14 01:54	ASD	TAL ANC
Total/NA	Prep	5035			1032	08/27/14 10:16	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1035	08/28/14 01:54	ASD	TAL ANC
Total/NA	Prep	3545			1034	08/27/14 10:17	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/30/14 07:09	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:44	ASD	TAL ANC

Client Sample ID: TRIP BLANK

Date Collected: 08/18/14 00:00
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1018	08/27/14 04:12	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1017	08/27/14 04:12	ASD	TAL ANC

Client Sample ID: TRIP BLANK

Date Collected: 08/18/14 00:00
Date Received: 08/25/14 08:55

Lab Sample ID: 230-265-23

Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1032	08/27/14 10:16	ASD	TAL ANC
Total/NA	Analysis	8260B		1	1036	08/28/14 02:26	ASD	TAL ANC
Total/NA	Prep	5035			1032	08/27/14 10:16	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1035	08/28/14 02:26	ASD	TAL ANC
Total/NA	Analysis	Moisture		1	1016	08/25/14 15:49	ASD	TAL ANC

TestAmerica Anchorage

Lab Chronicle

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Laboratory References:

TAL ANC = TestAmerica Anchorage, 2000 West International Airport Road, Suite A10, Anchorage, AK 99502-1119, TEL (907)563-9200

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Certification Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Laboratory: TestAmerica Anchorage

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	AK00975	06-30-15
Alaska (UST)	State Program	10	UST-067	06-16-14 *

* Certification renewal pending - certification considered valid.

TestAmerica Anchorage

Method Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL ANC
AK101	Alaska - Gasoline Range Organics (GC/MS)	ADEC	TAL ANC
AK102 & 103	Alaska - Diesel Range Organics & Residual Range Organics (GC)	ADEC	TAL ANC
Moisture	Percent Moisture	EPA	TAL ANC

Protocol References:

ADEC = Alaska Department of Environmental Conservation

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL ANC = TestAmerica Anchorage, 2000 West International Airport Road, Suite A10, Anchorage, AK 99502-1119, TEL (907)563-9200

Sample Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 230-265-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
230-265-1	S-1	Solid	08/18/14 09:00	08/25/14 08:55
230-265-2	S-2	Solid	08/18/14 09:11	08/25/14 08:55
230-265-3	S-3	Solid	08/18/14 09:57	08/25/14 08:55
230-265-4	S-4	Solid	08/18/14 10:05	08/25/14 08:55
230-265-5	S-5	Solid	08/18/14 10:15	08/25/14 08:55
230-265-6	S-6	Solid	08/18/14 10:27	08/25/14 08:55
230-265-7	S-7	Solid	08/18/14 10:45	08/25/14 08:55
230-265-8	S-8	Solid	08/18/14 11:07	08/25/14 08:55
230-265-9	S-9	Solid	08/18/14 11:23	08/25/14 08:55
230-265-10	S-10	Solid	08/18/14 11:45	08/25/14 08:55
230-265-11	S-11	Solid	08/18/14 12:05	08/25/14 08:55
230-265-12	S-12	Solid	08/18/14 12:17	08/25/14 08:55
230-265-13	S-13	Solid	08/18/14 12:30	08/25/14 08:55
230-265-14	S-14	Solid	08/18/14 12:49	08/25/14 08:55
230-265-15	S-15	Solid	08/18/14 12:58	08/25/14 08:55
230-265-16	T.H.WELL	Water	08/18/14 13:30	08/25/14 08:55
230-265-17	SNYDER WELL	Water	08/18/14 12:40	08/25/14 08:55
230-265-18	D.WELL	Water	08/18/14 13:35	08/25/14 08:55
230-265-19	MW-1	Water	08/18/14 15:40	08/25/14 08:55
230-265-20	MW-2	Water	08/18/14 16:10	08/25/14 08:55
230-265-21	S-D	Solid	08/18/14 09:16	08/25/14 08:55
230-265-22	TRIP BLANK	Water	08/18/14 00:00	08/25/14 08:55
230-265-23	TRIP BLANK	Solid	08/18/14 00:00	08/25/14 08:55

TestAmerica Anchorage

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North

2000 W International
230-265 Chain of Custody.



420-9200 FAX 420-9210
9-924-9200 FAX 924-9290
3-906-9200 FAX 906-9210
7-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: 220-265

INVOICE TO:

John Cox @ Chandon Corp. com

P.O. NUMBER:

PROJECT NAME: TEST IT.

SAMPLED BY: J. COX

CLIENT SAMPLE IDENTIFICATION

SAMPLING DATE/TIME

REQUESTED ANALYSES

10:00 10:01 10:02 10:03

X X X X

9:11 9:12 9:13 9:14

X X X X

9:54 9:55 9:56 9:57

X X X X

10:05 10:06 10:07 10:08

X X X X

10:15 10:16 10:17 10:18

X X X X

10:24 10:25 10:26 10:27

X X X X

11:04 11:05 11:06 11:07

X X X X

11:23 11:24 11:25 11:26

X X X X

11:45 11:46 11:47 11:48

X X X X

12:14 12:15 12:16 12:17

X X X X

12:44 12:45 12:46 12:47

X X X X

1:14 1:15 1:16 1:17

X X X X

1:44 1:45 1:46 1:47

X X X X

2:14 2:15 2:16 2:17

X X X X

2:44 2:45 2:46 2:47

X X X X

TURNAROUND REQUEST

In Business Days *

Organic & Inorganic Analyses			
<input checked="" type="checkbox"/> STD	7	5	3
Petroleum Hydrocarbon Analyses			
<input checked="" type="checkbox"/> STD	4	3	1

OTHER

Specify:

* Turnaround Requests less than standard may incur Rush Charges.

MATRIX (N, S, O) # OF CONT.

LOCATION/ COMMENTS

TA WO ID

2 2 - 802 01

2 2 - 802 02

1 1 - 802 03

1 1 - 802 04

1 1 - 802 05

1 1 - 802 06

1 1 - 802 07

1 1 - 802 08

1 1 - 802 09

1 1 - 802 10

RECEIVED BY: *J. COX* DATE: *8/25/14*
FIRM: *CPT* TIME: *11:24*
PRINT NAME: *John Cox* PRINT NAME: *John Cox*

RECEIVED BY: *John Cox* DATE: *8/25/14*
FIRM: *CPT* TIME: *11:24*
PRINT NAME: *John Cox* PRINT NAME: *John Cox*

RECEIVED BY: *John Cox* DATE: *8/25/14*
FIRM: *CPT* TIME: *11:24*
PRINT NAME: *John Cox* PRINT NAME: *John Cox*

TEMP: *22* PAGE OF *2*
TAL-1000 (0408)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 425-420-9200 FAX 420-9210
 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

230-265

CHAIN OF CUSTODY REPORT

CLIENT:		INVOICE TO:		TURNAROUND REQUEST		Work Order #:	
REPORT TO: ADDRESS: PHONE: PROJECT NAME: PROJECT NUMBER:		PO. NUMBER: PRESERVATIVE		in Business Days*		230-265	
CDT 506.444.1111		JCOX DOCUMENTATION.COM		<input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <input checked="" type="checkbox"/> STD Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> STD			
SAMPLER BY:		SAMPLING DATE/TIME		REQUESTED ANALYSES		OTHER Specify:	
1	G-11	6.10.14	12:05	X			* Turnaround Requests less than standard may incur Rush Charges.
2	G-12		12:14	X			
3	G-13		12:30	X			
4	G-14		12:49	X			
5	G-15		12:58	X			
6	T.H. Well		13:30	X	X		
7	Super Well		12:40	X	X		
8	D.Well		13:35	X	X		
9	W.W.		15:40	X	X		
10	WW-1		16:10	X	X		
RELEASED BY: <u>JCOX DOCUMENTATION.COM</u>		FIRM: CDT		DATE: 08/25/14		RECEIVED BY: <u>Hoppe</u>	
PRINT NAME: <u>JCOX DOCUMENTATION.COM</u>		TIME: 11:34		TIME: 11:34		PRINT NAME: <u>Amy Hupp</u>	
RELEASED BY: <u>JCOX DOCUMENTATION.COM</u>		FIRM: CDT		DATE: 08/25/14		RECEIVED BY: <u>Hoppe</u>	
PRINT NAME: <u>JCOX DOCUMENTATION.COM</u>		TIME: 11:34		TIME: 11:34		PRINT NAME: <u>Amy Hupp</u>	
ADDITIONAL REMARKS:							
						TEMP: 22 PAGE OF 22	
						C TAL 10000408	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119
 253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

CLIENT:		INVOICE TO:		Work Order #:	
REPORT TO: J COX OCEANSIDEAN.COM				230-265	
ADDRESS: 1560 14th FAX:		P.O. NUMBER:		TURNAROUND REQUEST	
PHONE: 561-4447				in Business Days *	
PROJECT NAME: TKE T.F.		PROJECT NUMBER:		<input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small>	
SAMPLED BY: J. COX		REQUESTED ANALYSES		Organic & Inorganic Analyses	
				Petroleum Hydrocarbon Analyses	
				<input type="checkbox"/> OTHER Specify: <small>* Turnaround Requests less than standard may incur Rush Charges.</small>	
1	S-7	SAMPLING DATE/TIME 8.18.14 9:16	10101 82603 A441 10117 A442	W	2
2	TRIP BLANK	RE	X X	G	1
3	TRIP BLANK		X X	W	2
4	TRIP BLANK		X X	S	1
5					
6					
7					
8					
9					
10	J COX	FIRM: COX	DATE: 8-24-14 TIME: 11:34	RECEIVED BY: AMY PRINT NAME: AMY HIFI FIRM: COX	DATE: 8-25-14 TIME: 0855
RELEASED BY: J COX	PRINT NAME: J COX	FIRM: COX	DATE: TIME:	RECEIVED BY: PRINT NAME: FIRM: DATE: TIME:	DATE: TIME:
ADDITIONAL REMARKS:					
				TEMP: 22	PAGE OF 22

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Login Sample Receipt Checklist

Client: Carson Dorn, Inc

Job Number: 230-265-1

Login Number: 265

List Source: TestAmerica Anchorage

List Number: 1

Creator: Hirji, Ally

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
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.	True	

Laboratory Data Review Checklist

Completed by: Jolene Cox

Title: Environmental Professional Date: October 20, 2014

CS Report Name: Tenakee Springs Tank Farm Report Date: September 9, 2014

Consultant Firm: Carson Dorn, Inc.

Laboratory Name: Test America, Inc. Laboratory Report Number: 580-45109-1

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:

YES

- 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:

YES

- b. Correct analyses requested?

Yes No NA (Please explain.) Comments:

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): S-3 (580-45109-3). The container labels list S-D, while the COC lists S-3.

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt ($4^\circ \pm 2^\circ \text{ C}$)?
- Yes No NA (Please explain.) Comments:

YES

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No NA (Please explain.) Comments:

YES

- c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
Yes No NA (Please explain.) Comments:

YES

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
Yes No NA (Please explain.) Comments:

NO

- e. Data quality or usability affected? (Please explain.)
Comments:

4. Case Narrative

- a. Present and understandable?
Yes No NA (Please explain.)

Comments:

YES

- b. Discrepancies, errors or QC failures identified by the lab?
Yes No NA (Please explain.) Comments:

NO

- 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:

YES

- b. All applicable holding times met?
Yes No NA (Please explain.) Comments:

YES

- c. All soils reported on a dry weight basis?

YES

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:

YES

- e. Data quality or usability affected?

Comments:

[Redacted]

6. QC Samples

a. Method Blank

- i. One method blank reported per matrix, analysis and 20 samples?

Yes No NA (Please explain.)

Comments:

YES

- ii. All method blank results less than PQL?

Yes No NA (Please explain.)

Comments:

YES

- iii. If above PQL, what samples are affected?

Comments:

[Redacted]

- iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

Yes No NA (Please explain.)

Comments:

[Redacted]

- v. Data quality or usability affected? (Please explain.)

Comments:

[Redacted]

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:

YES

- ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No NA (Please explain.)

Comments:

- 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:

YES

- 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/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain.)

Comments:

YES

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain.)

Comments:

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

c. Surrogates – Organics Only

- i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No NA (Please explain.)

Comments:

YES

- 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:

YES

- 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:

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

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:

NA

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:

v. Data quality or usability affected? (Please explain.)

Comments:

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No NA (Please explain.)

Comments:

YES

ii. Submitted blind to lab?

YES

Yes No NA (Please explain.)

Comments:

- iii. Precision – All relative percent differences (RPD) less than specified DQOs?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \frac{\text{Absolute value of: } (R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No NA (Please explain.)

Comments:

YES

- iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

- f. Decontamination or Equipment Blank (If not used explain why).

Yes No NA (Please explain.)

Comments:

- i. All results less than PQL?

Yes No NA (Please explain.)

Comments:

- ii. If above PQL, what samples are affected?

Comments:

- 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:

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: 580-45109-1

Client Project/Site: TKE T.F.

For:

Carson Dorn, Inc
712 West 12th Street
Juneau, Alaska 99801

Attn: Jolene Cox

David Burk

Authorized for release by:

9/9/2014 4:15:08 PM

David Burk, Project Manager I
(253)248-4972
david.burk@testamericainc.com

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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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Case Narrative

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 580-45109-1

Job ID: 580-45109-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 8/25/2014 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

Except:

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): S-3 (580-45109-3). The container labels list S-D, while the COC lists S-3.

GC/MS Semi VOA

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

General Chemistry

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

Subcontract non-Sister

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: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 580-45109-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
D	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: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 580-45109-1

Client Sample ID: S-1

Date Collected: 08/18/14 09:00
Date Received: 08/25/14 10:15

Lab Sample ID: 580-45109-1

Matrix: Solid
Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		24		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
2-Methylnaphthalene	ND		24		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
1-Methylnaphthalene	ND		36		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Acenaphthylene	ND		24		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Acenaphthene	ND		24		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Fluorene	ND		24		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Phenanthrene	ND		24		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Anthracene	ND		24		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Fluoranthene	63		24		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Pyrene	76		24		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Benzo[a]anthracene	39		24		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Chrysene	47		30		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Benzo[b]fluoranthene	69		24		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Benzo[k]fluoranthene	ND		30		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Benzo[a]pyrene	48		36		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Indeno[1,2,3-cd]pyrene	ND		48		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Dibenz(a,h)anthracene	ND		48		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1
Benzo[g,h,i]perylene	ND		30		ug/Kg	⊗	08/26/14 10:37	08/28/14 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	73		38 - 141	08/26/14 10:37	08/28/14 00:38	1
2-Fluorobiphenyl	76		42 - 140	08/26/14 10:37	08/28/14 00:38	1
Terphenyl-d14	109		42 - 151	08/26/14 10:37	08/28/14 00:38	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82		0.10	%		08/26/14 10:21		1
Percent Moisture	18		0.10	%		08/26/14 10:21		1

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 580-45109-1

Client Sample ID: S-2

Date Collected: 08/18/14 09:11
Date Received: 08/25/14 10:15

Lab Sample ID: 580-45109-2

Matrix: Solid
Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	31		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
2-Methylnaphthalene	ND		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
1-Methylnaphthalene	ND		36		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Acenaphthylene	ND		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Acenaphthene	ND		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Fluorene	ND		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Phenanthrene	98		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Anthracene	54		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Fluoranthene	170		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Pyrene	180		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Benzo[a]anthracene	120		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Chrysene	220		30		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Benzo[b]fluoranthene	160		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Benzo[k]fluoranthene	79		30		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Benzo[a]pyrene	97		36		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Indeno[1,2,3-cd]pyrene	67		48		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Dibenz(a,h)anthracene	ND		48		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1
Benzo[g,h,i]perylene	47		30		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	82		38 - 141	08/26/14 10:41	08/28/14 01:05	1
2-Fluorobiphenyl	84		42 - 140	08/26/14 10:41	08/28/14 01:05	1
Terphenyl-d14	108		42 - 151	08/26/14 10:41	08/28/14 01:05	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80		0.10	%		08/26/14 10:21		1
Percent Moisture	20		0.10	%		08/26/14 10:21		1

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 580-45109-1

Client Sample ID: S-3

Date Collected: 08/18/14 09:16
Date Received: 08/25/14 10:15

Lab Sample ID: 580-45109-3
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
2-Methylnaphthalene	ND		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
1-Methylnaphthalene	ND		36		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Acenaphthylene	ND		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Acenaphthene	ND		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Fluorene	ND		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Phenanthrene	98		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Anthracene	34		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Fluoranthene	270		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Pyrene	250		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Benzo[a]anthracene	130		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Chrysene	160		30		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Benzo[b]fluoranthene	150		24		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Benzo[k]fluoranthene	60		30		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Benzo[a]pyrene	93		36		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Indeno[1,2,3-cd]pyrene	63		48		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Dibenz(a,h)anthracene	ND		48		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1
Benzo[g,h,i]perylene	41		30		ug/Kg	⊗	08/26/14 10:41	08/28/14 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	83		38 - 141	08/26/14 10:41	08/28/14 01:30	1
2-Fluorobiphenyl	89		42 - 140	08/26/14 10:41	08/28/14 01:30	1
Terphenyl-d14	113		42 - 151	08/26/14 10:41	08/28/14 01:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82		0.10		%		08/26/14 10:21		1
Percent Moisture	18		0.10		%		08/26/14 10:21		1

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 580-45109-1

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

Lab Sample ID: MB 580-168090/1-A

Matrix: Solid

Analysis Batch: 168253

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 168090

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							Prepared	Analyzed	Dil Fac
Naphthalene	ND				20		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
2-Methylnaphthalene	ND				20		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
1-Methylnaphthalene	ND				30		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Acenaphthylene	ND				20		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Acenaphthene	ND				20		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Fluorene	ND				20		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Phenanthrene	ND				20		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Anthracene	ND				20		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Fluoranthene	ND				20		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Pyrene	ND				20		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Benzo[a]anthracene	ND				20		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Chrysene	ND				25		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Benzo[b]fluoranthene	ND				20		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Benzo[k]fluoranthene	ND				25		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Benzo[a]pyrene	ND				30		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Indeno[1,2,3-cd]pyrene	ND				40		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Dibenz(a,h)anthracene	ND				40		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Benzo[g,h,i]perylene	ND				25		ug/Kg		08/26/14 10:37	08/27/14 19:53	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	71				38 - 141				08/26/14 10:37	08/27/14 19:53	1
2-Fluorobiphenyl	70				42 - 140				08/26/14 10:37	08/27/14 19:53	1
Terphenyl-d14	90				42 - 151				08/26/14 10:37	08/27/14 19:53	1

Lab Sample ID: LCS 580-168090/2-A

Matrix: Solid

Analysis Batch: 168253

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 168090

Analyte	Spike	LCS	LCS	%Rec.			
	Added	Result	Qualifier	Unit	D	%Rec	Limits
Naphthalene	1000	757		ug/Kg		76	62 - 112
2-Methylnaphthalene	1000	861		ug/Kg		86	64 - 119
1-Methylnaphthalene	1000	835		ug/Kg		83	62 - 118
Acenaphthylene	1000	881		ug/Kg		88	68 - 120
Acenaphthene	1000	817		ug/Kg		82	68 - 116
Fluorene	1000	874		ug/Kg		87	70 - 121
Phenanthrene	1000	875		ug/Kg		88	73 - 106
Anthracene	1000	848		ug/Kg		85	73 - 116
Fluoranthene	1000	874		ug/Kg		87	73 - 125
Pyrene	1000	842		ug/Kg		84	70 - 120
Benzo[a]anthracene	1000	988		ug/Kg		99	76 - 119
Chrysene	1000	861		ug/Kg		86	75 - 114
Benzo[b]fluoranthene	1000	846		ug/Kg		85	63 - 132
Benzo[k]fluoranthene	1000	825		ug/Kg		83	63 - 119
Benzo[a]pyrene	1000	897		ug/Kg		90	72 - 117
Indeno[1,2,3-cd]pyrene	1000	840		ug/Kg		84	56 - 127
Dibenz(a,h)anthracene	1000	799		ug/Kg		80	56 - 134
Benzo[g,h,i]perylene	1000	868		ug/Kg		87	55 - 139

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 580-45109-1

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

Lab Sample ID: LCS 580-168090/2-A

Matrix: Solid

Analysis Batch: 168253

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 168090

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
Nitrobenzene-d5	74		38 - 141
2-Fluorobiphenyl	84		42 - 140
Terphenyl-d14	97		42 - 151

Lab Sample ID: LCSD 580-168090/3-A

Matrix: Solid

Analysis Batch: 168253

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 168090

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
Naphthalene	1000	724		ug/Kg	72	62 - 112	5	26	
2-Methylnaphthalene	1000	801		ug/Kg	80	64 - 119	7	27	
1-Methylnaphthalene	1000	789		ug/Kg	79	62 - 118	6	30	
Acenaphthylene	1000	835		ug/Kg	84	68 - 120	5	28	
Acenaphthene	1000	772		ug/Kg	77	68 - 116	6	27	
Fluorene	1000	884		ug/Kg	88	70 - 121	1	30	
Phenanthrene	1000	876		ug/Kg	88	73 - 106	0	28	
Anthracene	1000	881		ug/Kg	88	73 - 116	4	27	
Fluoranthene	1000	874		ug/Kg	87	73 - 125	0	30	
Pyrene	1000	865		ug/Kg	86	70 - 120	3	30	
Benzo[a]anthracene	1000	974		ug/Kg	97	76 - 119	1	27	
Chrysene	1000	930		ug/Kg	93	75 - 114	8	26	
Benzo[b]fluoranthene	1000	867		ug/Kg	87	63 - 132	2	30	
Benzo[k]fluoranthene	1000	898		ug/Kg	90	63 - 119	8	30	
Benzo[a]pyrene	1000	866		ug/Kg	87	72 - 117	3	30	
Indeno[1,2,3-cd]pyrene	1000	827		ug/Kg	83	56 - 127	2	29	
Dibenz(a,h)anthracene	1000	789		ug/Kg	79	56 - 134	1	30	
Benzo[g,h,i]perylene	1000	850		ug/Kg	85	55 - 139	2	28	

Surrogate	LCSD	LCSD	
	%Recovery	Qualifier	Limits
Nitrobenzene-d5	72		38 - 141
2-Fluorobiphenyl	81		42 - 140
Terphenyl-d14	103		42 - 151

TestAmerica Seattle

Lab Chronicle

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 580-45109-1

Client Sample ID: S-1

Date Collected: 08/18/14 09:00
Date Received: 08/25/14 10:15

Lab Sample ID: 580-45109-1

Matrix: Solid

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			168090	08/26/14 10:37	CTC	TAL SEA
Total/NA	Analysis	8270C		1	168253	08/28/14 00:38	AHP	TAL SEA
Total/NA	Analysis	D 2216		1	168087	08/26/14 10:21	LHJ	TAL SEA

Client Sample ID: S-2

Date Collected: 08/18/14 09:11
Date Received: 08/25/14 10:15

Lab Sample ID: 580-45109-2

Matrix: Solid

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			168090	08/26/14 10:41	CTC	TAL SEA
Total/NA	Analysis	8270C		1	168253	08/28/14 01:05	AHP	TAL SEA
Total/NA	Analysis	D 2216		1	168087	08/26/14 10:21	LHJ	TAL SEA

Client Sample ID: S-3

Date Collected: 08/18/14 09:16
Date Received: 08/25/14 10:15

Lab Sample ID: 580-45109-3

Matrix: Solid

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			168090	08/26/14 10:41	CTC	TAL SEA
Total/NA	Analysis	8270C		1	168253	08/28/14 01:30	AHP	TAL SEA
Total/NA	Analysis	D 2216		1	168087	08/26/14 10:21	LHJ	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TestAmerica Seattle

Certification Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 580-45109-1

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-113	07-25-15
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
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	11-06-14
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15

* Certification renewal pending - certification considered valid.

TestAmerica Seattle

Sample Summary

Client: Carson Dorn, Inc
Project/Site: TKE T.F.

TestAmerica Job ID: 580-45109-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-45109-1	S-1	Solid	08/18/14 09:00	08/25/14 10:15
580-45109-2	S-2	Solid	08/18/14 09:11	08/25/14 10:15
580-45109-3	S-3	Solid	08/18/14 09:16	08/25/14 10:15
580-45109-4	T.H.WELL	Water	08/18/14 13:30	08/25/14 10:15
580-45109-5	D.WELL	Water	08/18/14 13:35	08/25/14 10:15

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TestAmerica Seattle

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXH0169

Client Project/Site: 580-45109-1
Client Project Description: Burk, David

For:

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424

Attn: David Burk

A handwritten signature in black ink that reads "Randee Arrington". It is written in a cursive, flowing style.

Authorized for release by:

9/5/2014 9:10:57 AM

Randee Arrington, Project Manager

(509)924-9200

Randee.Arrington@testamericainc.com

LINKS

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

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

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Sample Summary

Client: TestAmerica Seattle
Project/Site: 580-45109-1

TestAmerica Job ID: SXH0169

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXH0169-01	T.H. Well	Water	08/18/14 13:30	08/26/14 10:00
SXH0169-02	D. Well	Water	08/18/14 13:35	08/26/14 10:00

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TestAmerica Spokane

Definitions/Glossary

Client: TestAmerica Seattle
Project/Site: 580-45109-1

TestAmerica Job ID: SXH0169

Qualifiers

Semivolatiles

Qualifier	Qualifier Description
H1	Sample analysis performed past the method-specified holding time per client's approval.

Glossary

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

<input checked="" type="checkbox"/>	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)

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TestAmerica Spokane

Client Sample Results

Client: TestAmerica Seattle
Project/Site: 580-45109-1

TestAmerica Job ID: SXH0169

Client Sample ID: T.H. Well
Date Collected: 08/18/14 13:30
Date Received: 08/26/14 10:00

Lab Sample ID: SXH0169-01
Matrix: Water

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
2-Methylnaphthalene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
1-Methylnaphthalene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Acenaphthylene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Acenaphthene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Fluorene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Phenanthrene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Anthracene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Fluoranthene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Pyrene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Benzo (a) anthracene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Chrysene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Benzo (b) fluoranthene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Benzo (k) fluoranthene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Benzo (a) pyrene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Indeno (1,2,3-cd) pyrene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Dibenzo (a,h) anthracene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Benzo (ghi) perylene	ND	H1	0.106		ug/L		08/27/14 09:20	08/28/14 02:47	1.00
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Nitrobenzene-d5		78.1	H1	32.7 - 135			08/27/14 09:20	08/28/14 02:47	1.00
2-FBP		74.1	H1	44.3 - 120			08/27/14 09:20	08/28/14 02:47	1.00
p-Terphenyl-d14		90.4	H1	59.5 - 154			08/27/14 09:20	08/28/14 02:47	1.00

Client Sample ID: D. Well

Date Collected: 08/18/14 13:35
Date Received: 08/26/14 10:00

Lab Sample ID: SXH0169-02
Matrix: Water

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
2-Methylnaphthalene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
1-Methylnaphthalene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Acenaphthylene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Acenaphthene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Fluorene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Phenanthrene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Anthracene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Fluoranthene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Pyrene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Benzo (a) anthracene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Chrysene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Benzo (b) fluoranthene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Benzo (k) fluoranthene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Benzo (a) pyrene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Indeno (1,2,3-cd) pyrene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Dibenzo (a,h) anthracene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00
Benzo (ghi) perylene	ND	H1	0.109		ug/L		08/27/14 09:20	08/28/14 03:09	1.00

TestAmerica Spokane

Client Sample Results

Client: TestAmerica Seattle
Project/Site: 580-45109-1

TestAmerica Job ID: SXH0169

Client Sample ID: D. Well

Date Collected: 08/18/14 13:35

Date Received: 08/26/14 10:00

Lab Sample ID: SXH0169-02

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75.9	H1	32.7 - 135	08/27/14 09:20	08/28/14 03:09	1.00
2-FBP	67.2	H1	44.3 - 120	08/27/14 09:20	08/28/14 03:09	1.00
p-Terphenyl-d14	84.9	H1	59.5 - 154	08/27/14 09:20	08/28/14 03:09	1.00

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TestAmerica Spokane

QC Sample Results

Client: TestAmerica Seattle
Project/Site: 580-45109-1

TestAmerica Job ID: SXH0169

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Lab Sample ID: 14H0153-BLK1

Matrix: Water

Analysis Batch: 14H0153

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 14H0153_P

Analyte	Blank	Blank	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Naphthalene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
2-Methylnaphthalene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
1-Methylnaphthalene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Acenaphthylene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Acenaphthene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Fluorene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Phenanthrene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Anthracene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Fluoranthene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Pyrene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Benzo (a) anthracene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Chrysene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Benzo (b) fluoranthene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Benzo (k) fluoranthene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Benzo (a) pyrene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Indeno (1,2,3-cd) pyrene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Dibenzo (a,h) anthracene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00
Benzo (ghi) perylene	ND		0.100		ug/L				08/27/14 09:20	08/28/14 01:40	1.00

Surrogate	Blank	Blank	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrobenzene-d5	73.4		32.7 - 135			08/27/14 09:20	08/28/14 01:40	1.00
2-FBP	74.6		44.3 - 120			08/27/14 09:20	08/28/14 01:40	1.00
p-Terphenyl-d14	90.4		59.5 - 154			08/27/14 09:20	08/28/14 01:40	1.00

Lab Sample ID: 14H0153-BS1

Matrix: Water

Analysis Batch: 14H0153

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 14H0153_P

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	Limits	Prepared	Analyzed	Dil Fac
	Added	Result	Qualifier									
Naphthalene	4.00	2.09		ug/L				52.2	27.8 - 143			
Fluorene	4.00	3.45		ug/L				86.2	59.2 - 120			
Chrysene	4.00	3.46		ug/L				86.5	69.1 - 122			
Indeno (1,2,3-cd) pyrene	4.00	3.92		ug/L				98.0	56.1 - 135			

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrobenzene-d5	86.7		32.7 - 135					
2-FBP	85.5		44.3 - 120					
p-Terphenyl-d14	89.5		59.5 - 154					

Lab Sample ID: 14H0153-BSD1

Matrix: Water

Analysis Batch: 14H0153

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 14H0153_P

Analyte	Spike	LCS Dup	LCS Dup	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Prepared	Analyzed	Dil Fac
	Added	Result	Qualifier										
Naphthalene	4.00	2.18		ug/L				54.5	27.8 - 143	4.22			30
Fluorene	4.00	2.83		ug/L				70.8	59.2 - 120	19.7			30
Chrysene	4.00	3.06		ug/L				76.5	69.1 - 122	12.3			30

TestAmerica Spokane

QC Sample Results

Client: TestAmerica Seattle
Project/Site: 580-45109-1

TestAmerica Job ID: SXH0169

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring (Continued)

Lab Sample ID: 14H0153-BSD1

Matrix: Water

Analysis Batch: 14H0153

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 14H0153_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
Indeno (1,2,3-cd) pyrene	4.00	3.42		ug/L		85.5	56.1 - 135	13.6		30
Surrogate	LCS Dup %Recovery	LCS Dup Qualifier	Limits							
Nitrobenzene-d5	76.4		32.7 - 135							
2-FBP	73.3		44.3 - 120							
p-Terphenyl-d14	86.1		59.5 - 154							

Lab Chronicle

Client: TestAmerica Seattle
Project/Site: 580-45109-1

TestAmerica Job ID: SXH0169

Client Sample ID: T.H. Well

Lab Sample ID: SXH0169-01

Date Collected: 08/18/14 13:30

Matrix: Water

Date Received: 08/26/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510/600 Series		1.06	14H0153_P	08/27/14 09:20	IAB	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0153	08/28/14 02:47	NMI	TAL SPK

Client Sample ID: D. Well

Lab Sample ID: SXH0169-02

Date Collected: 08/18/14 13:35

Matrix: Water

Date Received: 08/26/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510/600 Series		1.09	14H0153_P	08/27/14 09:20	IAB	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0153	08/28/14 03:09	NMI	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

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TestAmerica Spokane

Certification Summary

Client: TestAmerica Seattle
Project/Site: 580-45109-1

TestAmerica Job ID: SXH0169

Laboratory: TestAmerica Spokane

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-071	10-31-14
Washington	State Program	10	C569	01-06-15

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TestAmerica Spokane

Method Summary

Client: TestAmerica Seattle
Project/Site: 580-45109-1

TestAmerica Job ID: SXH0169

Method	Method Description	Protocol	Laboratory
EPA 8270D	Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring		TAL SPK

Protocol References:

Laboratory References:
TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

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TestAmerica Spokane

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

SX Holle
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



Chain of Custody Record

Client Information (Sub Contract Lab)

Client Contact:	Shipping/Receiving	Sampler:	Lab Pk: Burk, David G	Carrier Tracking No(s):	COC No: 580-18989-1
Company:	TestAmerica Laboratories, Inc	Phone:	E-Mail: david.burk@testamericainc.com	Job #:	Page 1 of 1
Analysis Requested					
<input checked="" type="checkbox"/> Q1A Number of Contaminants <input checked="" type="checkbox"/> Q1B 6270C PAH / Copy 6270C PAH Analytes <input checked="" type="checkbox"/> Q1C 6270C Sediment Sample (Sediment, Sediment) <input checked="" type="checkbox"/> Q1D Field Filtered Sample (Field Filtered Sample) <input checked="" type="checkbox"/> Q1E T.F. SSOW#: <input checked="" type="checkbox"/> Q1F Sample Date <input checked="" type="checkbox"/> Q1G Sample Time <input checked="" type="checkbox"/> Q1H Sample Type (C=comp, G=grab) <input checked="" type="checkbox"/> Q1I Matrix (Water, Solid, Oil/Oil, Brine/Brine, Ash) <input checked="" type="checkbox"/> Q1J Preservation Code: <input checked="" type="checkbox"/> Q1K T.H. WELL <input checked="" type="checkbox"/> Q1L D.WELL <input checked="" type="checkbox"/> Q1M <input checked="" type="checkbox"/> Q1N <input checked="" type="checkbox"/> Q1O <input checked="" type="checkbox"/> Q1P <input checked="" type="checkbox"/> Q1Q <input checked="" type="checkbox"/> Q1R <input checked="" type="checkbox"/> Q1S <input checked="" type="checkbox"/> Q1T <input checked="" type="checkbox"/> Q1U <input checked="" type="checkbox"/> Q1V <input checked="" type="checkbox"/> Q1W <input checked="" type="checkbox"/> Q1X <input checked="" type="checkbox"/> Q1Y <input checked="" type="checkbox"/> Q1Z <input checked="" type="checkbox"/> Q1AA <input checked="" type="checkbox"/> Q1AB <input checked="" type="checkbox"/> Q1AC <input checked="" type="checkbox"/> Q1AD <input checked="" type="checkbox"/> Q1AE <input checked="" type="checkbox"/> Q1AF <input checked="" type="checkbox"/> Q1AG <input checked="" type="checkbox"/> Q1AH <input checked="" type="checkbox"/> Q1AI <input checked="" 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TestAmerica Spokane Sample Receipt Form

Work Order #:	SXHD109	Client: TA Seattle			Project: 580-45109-1	
Date/Time Received:	8/26/14	10:00	By: CS			
Samples Delivered By: <input checked="" type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input type="checkbox"/> Client <input type="checkbox"/> Other:						
List Air Bill Number(s) or Attach a photocopy of the Air Bill:						
Receipt Phase	Yes	No	NA	Comments		
Were samples received in a cooler:	X					
Custody Seals are present and intact:	X					
Are CoC documents present:	X					
Necessary signatures:	X					
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> Gel Ice <input type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:						
Temperature:	43	°C	Thermometer (Circle one Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6			
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:						
Log-In Phase	Yes	No	NA	Comments		
Date/Time: 8/26/14 10:00 By: CS						
Are sample labels affixed and completed for each container	X					
Samples containers were received intact:	X					
Do sample IDs match the CoC	X					
Appropriate sample containers were received for tests requested	X					
Are sample volumes adequate for tests requested	X					
Appropriate preservatives were used for the tests requested	X					
pH of inorganic samples checked and is within method specification	X					
Are VOC samples free of bubbles >6mm (1/4" diameter)			X			
Are dissolved parameters field filtered			X			
Do any samples need to be filtered or preserved by the lab		X				
Does this project require quick turnaround analysis		X				
Are there any short hold time tests (see chart below)	X			Samples expired 8-26-14.		
Are any samples within 2 days of or past expiration	X			11 4 4		
Was the CoC scanned	X					
Were there Non-conformance issues at login		X				
If yes, was a CAR generated #			X			

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
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

253-922-2310 FAX 922-5047
509-924-9200 FAX 924-9290
503-906-9200 FAX 906-9210
907-563-9200 FAX 563-9210

9/9/2014

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: CDT

REPORT TO: JOXO&CARSONDORN.COM

ADDRESS: 907.528.4444 FAX:

PHONE: 907.528.4444

PROJECT NAME: THE T.F.

PROJ. NUMBER:

SAMPLED BY: JOXO

INVOICE TO: franklin@oxandorn.com

PO. NUMBER:

REQUESTED ANALYSES:

PREPARED BY:

STANDARD REQUESTS

10 STD. 7 5 4 3 2 1 <1

5 STD. 4 3 2 1 <1

OTHER SPECIFY:

* Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O) # OF CONT. LOCATION/ COMMENTS TA WOD

S 1

1

W 2

2

RECEIVED BY: JOXO

DATE: 8/14/14

TIME: 11:34

PRINT NAME: JOXO

RELEASED BY: CDT

DATE:

TIME:

FIRM: CDT

RECEIVED BY: FRANCISCO LUNA, JR.

DATE: 8/15/14

TIME: 10:15

PRINT NAME: FRANCISCO LUNA, JR.

RELEASED BY: TASEA

DATE:

TIME:

FIRM: TASEA

RECEIVED BY: ADDITIONAL REMARKS:

DATE:

TIME:

FIRM:

PRINT NAME:

TEMP:

PAGE OF

ITEM	DESCRIPTION	QUANTITY	TEST	TEST RESULTS	
				TEST 1	TEST 2
1	S-1	1			
2	S-2	1			
3	S-3	1			
4	T.H. WELL	1			
5	T.D. WELL	1			
6					
7					
8					
9					
10					

RECEIVED BY: JOXO

DATE: 8/14/14

TIME: 11:34

PRINT NAME: JOXO

RELEASED BY: CDT

DATE:

TIME:

FIRM: CDT

RECEIVED BY: FRANCISCO LUNA, JR.

DATE: 8/15/14

TIME: 10:15

PRINT NAME: FRANCISCO LUNA, JR.

RELEASED BY: TASEA

DATE:

TIME:

FIRM: TASEA

RECEIVED BY: ADDITIONAL REMARKS:

DATE:

TIME:

FIRM:

PRINT NAME:

TEMP:

PAGE OF

Login Sample Receipt Checklist

Client: Carson Dorn, Inc

Job Number: 580-45109-1

Login Number: 45109

List Source: TestAmerica Seattle

List Number: 1

Creator: Ames, Melissa R

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	

Attachment C



View of west side of the City Hall and Library Building



View of the site from the southwest along Tenakee Avenue.



Looking along old tanks from the west.



Close-up of soil in front of westernmost tank within tank containment.



View of old drain line from tank containment.



Sample location S-9 below old drain line from old tank containment.



Discarded old tanks below old tank containment.



View of north side of old tank containment from the east.



Sample location S-10 west of the old tank containment.



View of the old tanks and containment area from the northwest.



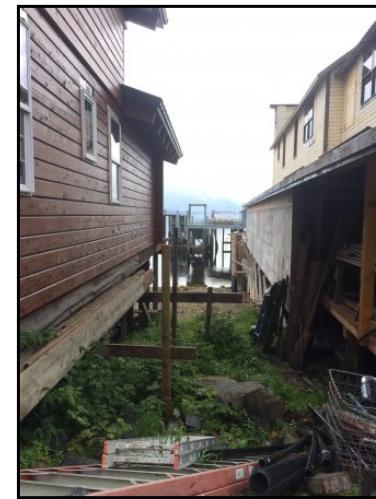
Looking along old tanks from the west.



Sample location S-11 in drainage below east side of old tank containment.



View of the site from Tenakee Avenue. Truck fill station visible in left portion of photograph.



Downgradient of the site looking along the east side of Snyder Mercantile.



Location of sample S-14 along the east side of Snyder Mercantile.



View of monitoring well 1.



View of new city power plant
from the south



Looking to the east between the
old tank farm containment and
the new city power plant.



View of new tanks #3 and #4 from the west.



Close-up view of tank #3 and piping.



Close-up view of tank #4 and piping.



View of new tanks #1 and #2 from the west.



View of new tanks #3 and #4 from the east.



View of new 3" distribution lines and steps leading down from new tank farm.