



September 1, 2015

Jim Mason
10481 Ann Coleman Road
Juneau, Alaska 998081

Dear Mr. Mason,

On July 2, 2015, Carson Dorn performed additional characterization sampling at 10481 Ann Coleman Road in Juneau, Alaska. The additional sampling aimed to track the progress of in-situ remediation efforts.

The original excavation work occurred at the site of a 2007 release of heating fuel from a leaking underground storage tank (UST). The tank was removed in 2007, but residual contamination remained at the site and in a wetland area on a neighbor's adjoining parcel (to the west).

The most recent 2015 and historical 2012 sampling locations and lab results are illustrated on Figure 1 "Mason Sampling Map" and tabulated below. The 2015 lab report is attached herewith as Enclosure 1.

TABLE 1
DRO Lab Results

Excavation I.D.	Sample Location (depth)	2012 DRO (mg/Kg)	2015 DRO (mg/Kg)
Hole #1	North wall (8')	630	
	South wall (8')	5,900	54
	East wall (8')	1,400	48
	Floor (8')	98	
Hole #2	North wall (8')	230	
	South wall (8')	46	
	West wall (8')	82	
	Floor (8')	30	
Area 3 (north)	Floor (3')	66,000	7,300
Area 3 (south)	Floor (3')	3,200	36,000

Based on the above findings, our recommendations for the site are as follows:

RECOMMENDATIONS

- 1) Hole #1: The south wall decreased from 5,900 mg/kg to 54 mg/kg DRO and the east wall decreased from 1,400 mg/kg to 48 mg/kg DRO. No further action is recommended.
- 2) Hole #2: No further action is recommended.
- 3) Area 3N and 3S: Area 3N decreased from 66,000 mg/kg to 7,300 mg/kg DRO while Area 3S increased from 3,200 mg/kg to 36,000 mg/kg DRO. We recommend continuing to regularly maintain the collected water with sorbent pads in the collection basin. Another round of sampling should occur during September or October 2016 to evaluate the progress of the treatment.

I have copied Danielle Duncan of ADEC with this letter so she is aware of our findings and recommendations.

Regards,



Jolene M Cox
Environmental Professional, Carson Dorn, Inc.

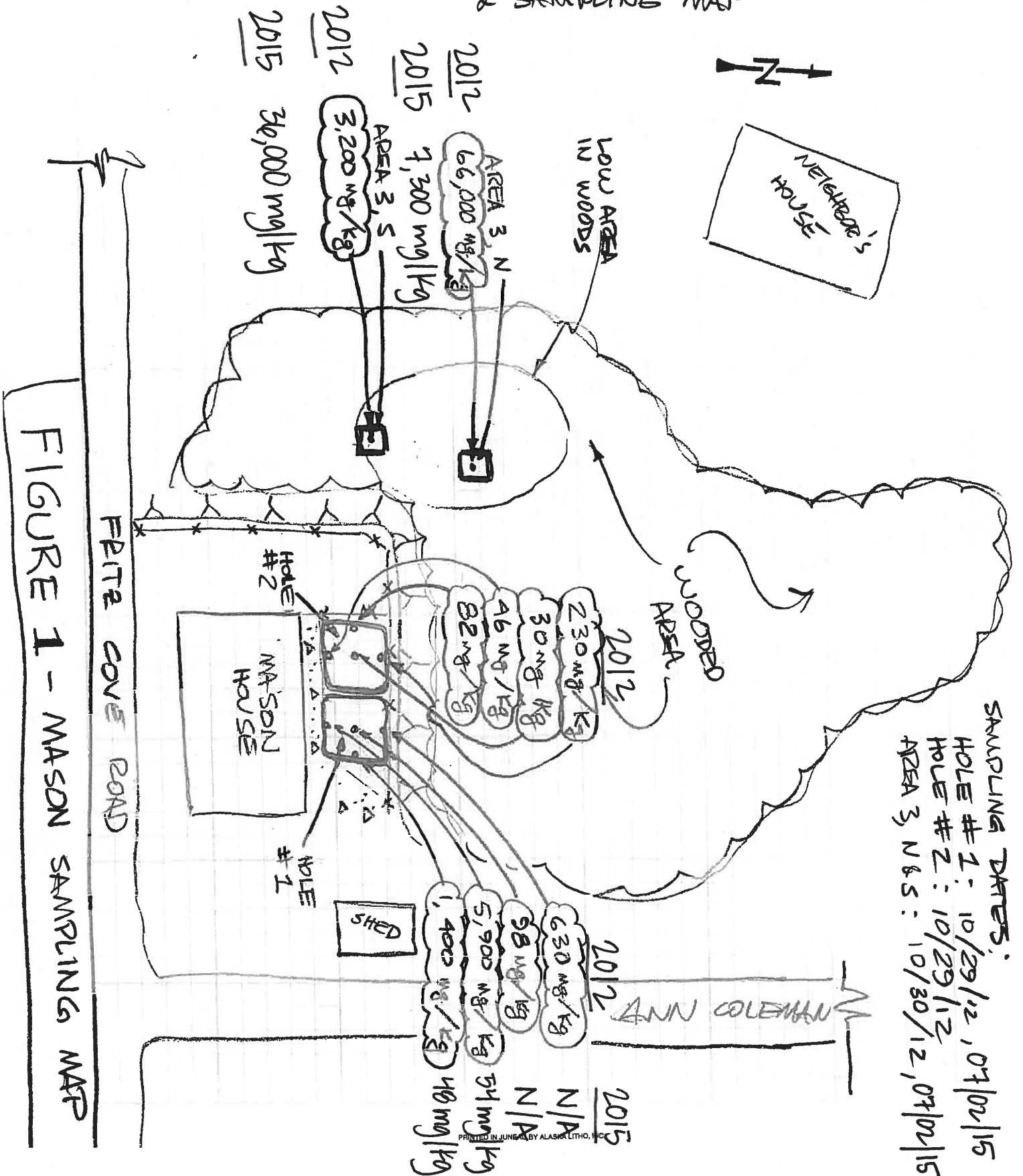
cc: Danielle Duncan (ADEC Contaminated Sites)

Enclosures



Carson Dorn Inc.

BY TCC DATE 11/29/12 CLIENT JIM MASON SHEET OF
CHKD. BY _____ DESCRIPTION SITE LAYOUT & SAMPLING MAP JOB NO. 12116.3.010



ENCLOSURE 1
LAB REPORT

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: 230-549-1

Client Project/Site: 10481 Ann Coleman


For:

Carson Dorn, Inc

712 West 12th Street

Juneau, Alaska 99801

Attn: Tom Carson



Authorized for release by:

8/3/2015 4:02:10 PM

Kelly Garretts, Project Manager II

(253)248-4961

kelly.garretts@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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Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	11
QC Association Summary	17
Lab Chronicle	19
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Checklists	26

Definitions/Glossary

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Case Narrative

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Job ID: 230-549-1

Laboratory: TestAmerica Anchorage

Narrative

Job Narrative 230-549-1

Comments

No additional comments.

Receipt

The samples were received on 7/9/2015 10:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

For the TB, the client submitted a VOA with MeOH.

Lab having issues with GC/MS switched AK101_MS to AK101 with approval of Tom Carson.

GC/MS VOA

Method AK101: The method blank for preparation batch 580-195667 and analytical batch 580-195856 contained gasoline range organics above the method detection limit. This target analyte concentration was less than 1/2 the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260: The following sample was run outside method specified holding time due to laboratory oversight: Trip Blank (230-549-6)

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

GC/MS Semi VOA

Methods 8270C SIM, 8270D SIM: The following samples were diluted due to the nature of the sample matrix: 1 South (230-549-1), (230-549-A-1-B MS) and (230-549-A-1-C MSD). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Methods AK102 & 103: In analytical batch 580-194744, the following samples from preparation batch 580-194652 contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: 1 South (230-549-1), 1 East (230-549-2) and 3 North-D (230-549-5).

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: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Client Sample ID: 1 South

Lab Sample ID: 230-549-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	54	Y	21		mg/Kg	1	☒	AK102 & 103	Total/NA

Client Sample ID: 1 East

Lab Sample ID: 230-549-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	48	Y	22		mg/Kg	1	☒	AK102 & 103	Total/NA

Client Sample ID: 3 North

Lab Sample ID: 230-549-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	7300	Y	56		mg/Kg	1	☒	AK102 & 103	Total/NA

Client Sample ID: 3 South

Lab Sample ID: 230-549-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	36000	Y	180		mg/Kg	1	☒	AK102 & 103	Total/NA

Client Sample ID: 3 North-D

Lab Sample ID: 230-549-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	1600	Y	110		mg/Kg	1	☒	AK102 & 103	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 230-549-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Client Sample ID: 1 South
Date Collected: 07/02/15 10:40
Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-1
Matrix: Solid
Percent Solids: 89.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		14		ug/Kg	☼	07/14/15 16:38	07/14/15 20:15	1
Toluene	ND		34		ug/Kg	☼	07/14/15 16:38	07/14/15 20:15	1
Ethylbenzene	ND		34		ug/Kg	☼	07/14/15 16:38	07/14/15 20:15	1
m-Xylene & p-Xylene	ND		34		ug/Kg	☼	07/14/15 16:38	07/14/15 20:15	1
o-Xylene	ND		34		ug/Kg	☼	07/14/15 16:38	07/14/15 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120	07/14/15 16:38	07/14/15 20:15	1
Trifluorotoluene (Surr)	78		65 - 140	07/14/15 16:38	07/14/15 20:15	1
4-Bromofluorobenzene (Surr)	100		70 - 120	07/14/15 16:38	07/14/15 20:15	1
Dibromofluoromethane (Surr)	93		75 - 132	07/14/15 16:38	07/14/15 20:15	1
1,2-Dichloroethane-d4 (Surr)	100		71 - 136	07/14/15 16:38	07/14/15 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	F2 F1	55		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
2-Methylnaphthalene	ND		110		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
1-Methylnaphthalene	ND		110		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Acenaphthylene	ND		55		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Acenaphthene	ND		55		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Fluorene	ND		55		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Phenanthrene	ND		110		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Anthracene	ND		55		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Fluoranthene	ND		220		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Pyrene	ND		220		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Benzo[a]anthracene	ND		110		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Chrysene	ND		110		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Benzo[b]fluoranthene	ND		110		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Benzo[k]fluoranthene	ND		55		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Benzo[a]pyrene	ND		55		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Indeno[1,2,3-cd]pyrene	ND		55		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Dibenz(a,h)anthracene	ND		55		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10
Benzo[g,h,i]perylene	ND		55		ug/Kg	☼	07/13/15 08:53	07/16/15 15:25	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	101		42 - 151	07/13/15 08:53	07/16/15 15:25	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		3.4		mg/Kg	☼	07/22/15 13:44	07/23/15 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	96		50 - 150	07/22/15 13:44	07/23/15 23:14	1
4-Bromofluorobenzene (Surr)	94		50 - 150	07/22/15 13:44	07/23/15 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
DRO (nC10-<nC25)	54	Y	21		mg/Kg	☼	07/13/15 09:32	07/14/15 10:03	1

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Client Sample ID: 1 South
Date Collected: 07/02/15 10:40
Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-1
Matrix: Solid
Percent Solids: 89.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	88		50 - 150	07/13/15 09:32	07/14/15 10:03	1

Client Sample ID: 1 East
Date Collected: 07/02/15 10:45
Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-2
Matrix: Solid
Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	48	Y	22		mg/Kg	☼	07/13/15 09:32	07/14/15 10:20	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
<i>o</i> -Terphenyl	89		50 - 150	07/13/15 09:32	07/14/15 10:20	1			

Client Sample ID: 3 North
Date Collected: 07/02/15 09:43
Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-3
Matrix: Solid
Percent Solids: 33.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	7300	Y	56		mg/Kg	☼	07/13/15 09:32	07/14/15 10:38	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
<i>o</i> -Terphenyl	110		50 - 150	07/13/15 09:32	07/14/15 10:38	1			

Client Sample ID: 3 South
Date Collected: 07/02/15 10:00
Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-4
Matrix: Solid
Percent Solids: 10.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	36000	Y	180		mg/Kg	☼	07/13/15 09:32	07/14/15 11:32	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
<i>o</i> -Terphenyl	113		50 - 150	07/13/15 09:32	07/14/15 11:32	1			

Client Sample ID: 3 North-D
Date Collected: 07/02/15 09:45
Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-5
Matrix: Solid
Percent Solids: 17.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	1600	Y	110		mg/Kg	☼	07/13/15 09:32	07/14/15 11:50	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
<i>o</i> -Terphenyl	84		50 - 150	07/13/15 09:32	07/14/15 11:50	1			

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Client Sample ID: Trip Blank

Lab Sample ID: 230-549-6

Date Collected: 07/02/15 00:00

Matrix: Solid

Date Received: 07/09/15 10:35

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	16		ug/Kg		07/28/15 13:19	07/29/15 16:59	1
Toluene	ND	H	40		ug/Kg		07/28/15 13:19	07/29/15 16:59	1
Ethylbenzene	ND	H	40		ug/Kg		07/28/15 13:19	07/29/15 16:59	1
m-Xylene & p-Xylene	ND	H	40		ug/Kg		07/28/15 13:19	07/29/15 16:59	1
o-Xylene	ND	H	40		ug/Kg		07/28/15 13:19	07/29/15 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120	07/28/15 13:19	07/29/15 16:59	1
Trifluorotoluene (Surr)	95		65 - 140	07/28/15 13:19	07/29/15 16:59	1
4-Bromofluorobenzene (Surr)	102		70 - 120	07/28/15 13:19	07/29/15 16:59	1
Dibromofluoromethane (Surr)	105		75 - 132	07/28/15 13:19	07/29/15 16:59	1
1,2-Dichloroethane-d4 (Surr)	113		71 - 136	07/28/15 13:19	07/29/15 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.0		mg/Kg		07/22/15 14:00	07/23/15 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	110		50 - 150	07/22/15 14:00	07/23/15 22:43	1
4-Bromofluorobenzene (Surr)	90		50 - 150	07/22/15 14:00	07/23/15 22:43	1

Surrogate Summary

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)				
		TOL (80-120)	TFT (65-140)	BFB (70-120)	DBFM (75-132)	12DCE (71-136)
230-549-1	1 South	98	78	100	93	100
230-549-6	Trip Blank	102	95	102	105	113
LCS 580-194758/2-A	Lab Control Sample	102	105	102	104	101
LCSD 580-194758/3-A	Lab Control Sample Dup	99	101	100	105	102
MB 580-194758/1-A	Method Blank	102	105	101	104	107

Surrogate Legend

TOL = Toluene-d8 (Surr)
TFT = Trifluorotoluene (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	TPH
		(42-151)
230-549-1	1 South	101
230-549-1 MS	1 South	97
230-549-1 MSD	1 South	95
LCS 580-194647/2-A	Lab Control Sample	100
LCSD 580-194647/3-A	Lab Control Sample Dup	91
MB 580-194647/1-A	Method Blank	96

Surrogate Legend

TPH = Terphenyl-d14

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT1 (50-150)	BFB1 (50-150)
230-549-1	1 South	96	94
230-549-6	Trip Blank	110	90
LCS 580-195667/2-A	Lab Control Sample	112	94
LCSD 580-195667/3-A	Lab Control Sample Dup	112	93
MB 580-195667/1-A	Method Blank	111	94

Surrogate Legend

TFT = Trifluorotoluene (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (50-150)
230-549-1	1 South	88
230-549-2	1 East	89
230-549-3	3 North	110
230-549-3 MS	3 North	113
230-549-3 MSD	3 North	91
230-549-4	3 South	113
230-549-5	3 North-D	84
LCS 580-194652/2-A	Lab Control Sample	101
LCSD 580-194652/3-A	Lab Control Sample Dup	88
MB 580-194652/1-A	Method Blank	94

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-194758/1-A
Matrix: Solid
Analysis Batch: 194842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 194758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		16		ug/Kg		07/14/15 09:53	07/14/15 12:54	1
Toluene	ND		40		ug/Kg		07/14/15 09:53	07/14/15 12:54	1
Ethylbenzene	ND		40		ug/Kg		07/14/15 09:53	07/14/15 12:54	1
m-Xylene & p-Xylene	ND		40		ug/Kg		07/14/15 09:53	07/14/15 12:54	1
o-Xylene	ND		40		ug/Kg		07/14/15 09:53	07/14/15 12:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120	07/14/15 09:53	07/14/15 12:54	1
Trifluorotoluene (Surr)	105		65 - 140	07/14/15 09:53	07/14/15 12:54	1
4-Bromofluorobenzene (Surr)	101		70 - 120	07/14/15 09:53	07/14/15 12:54	1
Dibromofluoromethane (Surr)	104		75 - 132	07/14/15 09:53	07/14/15 12:54	1
1,2-Dichloroethane-d4 (Surr)	107		71 - 136	07/14/15 09:53	07/14/15 12:54	1

Lab Sample ID: LCS 580-194758/2-A
Matrix: Solid
Analysis Batch: 194842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	800	731		ug/Kg		91	70 - 128
Toluene	800	707		ug/Kg		88	75 - 126
Ethylbenzene	800	708		ug/Kg		88	78 - 126
m-Xylene & p-Xylene	800	719		ug/Kg		90	78 - 126
o-Xylene	800	714		ug/Kg		89	77 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
Trifluorotoluene (Surr)	105		65 - 140
4-Bromofluorobenzene (Surr)	102		70 - 120
Dibromofluoromethane (Surr)	104		75 - 132
1,2-Dichloroethane-d4 (Surr)	101		71 - 136

Lab Sample ID: LCSD 580-194758/3-A
Matrix: Solid
Analysis Batch: 194842

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 194758

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Benzene	800	757		ug/Kg		95	70 - 128	3	19
Toluene	800	711		ug/Kg		89	75 - 126	1	19
Ethylbenzene	800	723		ug/Kg		90	78 - 126	2	23
m-Xylene & p-Xylene	800	721		ug/Kg		90	78 - 126	0	23
o-Xylene	800	728		ug/Kg		91	77 - 127	2	22

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 120
Trifluorotoluene (Surr)	101		65 - 140
4-Bromofluorobenzene (Surr)	100		70 - 120
Dibromofluoromethane (Surr)	105		75 - 132

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

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

Lab Sample ID: LCSD 580-194758/3-A
Matrix: Solid
Analysis Batch: 194842

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 194758

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	102		71 - 136

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

Lab Sample ID: MB 580-194647/1-A
Matrix: Solid
Analysis Batch: 195017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 194647

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		5.0		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
2-Methylnaphthalene	ND		10		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
1-Methylnaphthalene	ND		10		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Acenaphthylene	ND		5.0		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Acenaphthene	ND		5.0		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Fluorene	ND		5.0		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Phenanthrene	ND		10		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Anthracene	ND		5.0		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Fluoranthene	ND		20		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Pyrene	ND		20		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Benzo[a]anthracene	ND		10		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Chrysene	ND		10		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Benzo[b]fluoranthene	ND		10		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		07/13/15 08:53	07/16/15 12:10	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/13/15 08:53	07/16/15 12:10	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Terphenyl-d14	96		42 - 151	07/13/15 08:53	07/16/15 12:10	1

Lab Sample ID: LCS 580-194647/2-A
Matrix: Solid
Analysis Batch: 195017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194647

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Naphthalene	1000	857		ug/Kg		86	62 - 112
2-Methylnaphthalene	1000	811		ug/Kg		81	64 - 119
1-Methylnaphthalene	1000	933		ug/Kg		93	62 - 118
Acenaphthylene	1000	884		ug/Kg		88	68 - 120
Acenaphthene	1000	874		ug/Kg		87	68 - 116
Fluorene	1000	1040		ug/Kg		104	70 - 121
Phenanthrene	1000	821		ug/Kg		82	73 - 106
Anthracene	1000	996		ug/Kg		100	73 - 116
Fluoranthene	1000	936		ug/Kg		94	73 - 125
Pyrene	1000	884		ug/Kg		88	70 - 120
Benzo[a]anthracene	1000	958		ug/Kg		96	76 - 119

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

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

Lab Sample ID: LCS 580-194647/2-A
Matrix: Solid
Analysis Batch: 195017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	1000	979		ug/Kg		98	75 - 114
Benzo[b]fluoranthene	1000	849		ug/Kg		85	63 - 132
Benzo[k]fluoranthene	1000	1020		ug/Kg		102	63 - 119
Benzo[a]pyrene	1000	982		ug/Kg		98	72 - 117
Indeno[1,2,3-cd]pyrene	1000	971		ug/Kg		97	56 - 127
Dibenz(a,h)anthracene	1000	986		ug/Kg		99	56 - 134
Benzo[g,h,i]perylene	1000	939		ug/Kg		94	55 - 139
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
Terphenyl-d14	100		42 - 151				

Lab Sample ID: LCSD 580-194647/3-A
Matrix: Solid
Analysis Batch: 195017

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 194647

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	1000	800		ug/Kg		80	62 - 112	7	26
2-Methylnaphthalene	1000	761		ug/Kg		76	64 - 119	6	27
1-Methylnaphthalene	1000	870		ug/Kg		87	62 - 118	7	30
Acenaphthylene	1000	814		ug/Kg		81	68 - 120	8	28
Acenaphthene	1000	808		ug/Kg		81	68 - 116	8	27
Fluorene	1000	980		ug/Kg		98	70 - 121	6	30
Phenanthrene	1000	769		ug/Kg		77	73 - 106	6	28
Anthracene	1000	905		ug/Kg		91	73 - 116	9	27
Fluoranthene	1000	876		ug/Kg		88	73 - 125	7	30
Pyrene	1000	821		ug/Kg		82	70 - 120	7	30
Benzo[a]anthracene	1000	884		ug/Kg		88	76 - 119	8	27
Chrysene	1000	911		ug/Kg		91	75 - 114	7	26
Benzo[b]fluoranthene	1000	790		ug/Kg		79	63 - 132	7	30
Benzo[k]fluoranthene	1000	957		ug/Kg		96	63 - 119	6	30
Benzo[a]pyrene	1000	913		ug/Kg		91	72 - 117	7	30
Indeno[1,2,3-cd]pyrene	1000	901		ug/Kg		90	56 - 127	7	29
Dibenz(a,h)anthracene	1000	912		ug/Kg		91	56 - 134	8	30
Benzo[g,h,i]perylene	1000	867		ug/Kg		87	55 - 139	8	28
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
Terphenyl-d14	91		42 - 151						

Lab Sample ID: 230-549-1 MS
Matrix: Solid
Analysis Batch: 195017

Client Sample ID: 1 South
Prep Type: Total/NA
Prep Batch: 194647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND	F2 F1	1050	944		ug/Kg	☼	90	62 - 112
2-Methylnaphthalene	ND		1050	884		ug/Kg	☼	84	64 - 119
1-Methylnaphthalene	ND		1050	1170		ug/Kg	☼	112	62 - 118
Acenaphthylene	ND		1050	985		ug/Kg	☼	94	68 - 120
Acenaphthene	ND		1050	986		ug/Kg	☼	94	68 - 116

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

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

Lab Sample ID: 230-549-1 MS
Matrix: Solid
Analysis Batch: 195017

Client Sample ID: 1 South
Prep Type: Total/NA
Prep Batch: 194647
%Rec.

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Fluorene	ND		1050	955		ug/Kg	*	91	70 - 121
Phenanthrene	ND		1050	878		ug/Kg	*	84	73 - 106
Anthracene	ND		1050	1010		ug/Kg	*	96	73 - 116
Fluoranthene	ND		1050	1070		ug/Kg	*	102	73 - 125
Pyrene	ND		1050	989		ug/Kg	*	94	70 - 120
Benzo[a]anthracene	ND		1050	946		ug/Kg	*	90	76 - 119
Chrysene	ND		1050	1150		ug/Kg	*	110	75 - 114
Benzo[b]fluoranthene	ND		1050	851		ug/Kg	*	81	63 - 132
Benzo[k]fluoranthene	ND		1050	1000		ug/Kg	*	96	63 - 119
Benzo[a]pyrene	ND		1050	948		ug/Kg	*	90	72 - 117
Indeno[1,2,3-cd]pyrene	ND		1050	901		ug/Kg	*	86	56 - 127
Dibenz(a,h)anthracene	ND		1050	981		ug/Kg	*	94	56 - 134
Benzo[g,h,i]perylene	ND		1050	982		ug/Kg	*	92	55 - 139
		MS MS							
Surrogate	%Recovery	Qualifier	Limits						
Terphenyl-d14	97		42 - 151						

Lab Sample ID: 230-549-1 MSD
Matrix: Solid
Analysis Batch: 195017

Client Sample ID: 1 South
Prep Type: Total/NA
Prep Batch: 194647
%Rec.
RPD

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Naphthalene	ND	F2 F1	1090	1380	F1 F2	ug/Kg	*	127	62 - 112	38	26
2-Methylnaphthalene	ND		1090	922		ug/Kg	*	85	64 - 119	4	27
1-Methylnaphthalene	ND		1090	1140		ug/Kg	*	105	62 - 118	3	30
Acenaphthylene	ND		1090	985		ug/Kg	*	90	68 - 120	0	28
Acenaphthene	ND		1090	1010		ug/Kg	*	92	68 - 116	2	27
Fluorene	ND		1090	977		ug/Kg	*	90	70 - 121	2	31
Phenanthrene	ND		1090	933		ug/Kg	*	86	73 - 106	6	28
Anthracene	ND		1090	1040		ug/Kg	*	96	73 - 116	3	27
Fluoranthene	ND		1090	1090		ug/Kg	*	100	73 - 125	2	36
Pyrene	ND		1090	1020		ug/Kg	*	94	70 - 120	3	31
Benzo[a]anthracene	ND		1090	980		ug/Kg	*	90	76 - 119	4	27
Chrysene	ND		1090	1170		ug/Kg	*	107	75 - 114	1	26
Benzo[b]fluoranthene	ND		1090	859		ug/Kg	*	79	63 - 132	1	31
Benzo[k]fluoranthene	ND		1090	1040		ug/Kg	*	96	63 - 119	4	31
Benzo[a]pyrene	ND		1090	962		ug/Kg	*	88	72 - 117	1	30
Indeno[1,2,3-cd]pyrene	ND		1090	938		ug/Kg	*	86	56 - 127	4	29
Dibenz(a,h)anthracene	ND		1090	973		ug/Kg	*	89	56 - 134	1	30
Benzo[g,h,i]perylene	ND		1090	957		ug/Kg	*	86	55 - 139	3	28
		MSD MSD									
Surrogate	%Recovery	Qualifier	Limits								
Terphenyl-d14	95		42 - 151								

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

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

Lab Sample ID: MB 580-195667/1-A
Matrix: Solid
Analysis Batch: 195856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		4.0		mg/Kg		07/22/15 13:44	07/23/15 13:58	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	111		50 - 150				07/22/15 13:44	07/23/15 13:58	1
4-Bromofluorobenzene (Surr)	94		50 - 150				07/22/15 13:44	07/23/15 13:58	1

Lab Sample ID: LCS 580-195667/2-A
Matrix: Solid
Analysis Batch: 195856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	40.0	37.5		mg/Kg		94	60 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
Trifluorotoluene (Surr)	112		50 - 150				
4-Bromofluorobenzene (Surr)	94		50 - 150				

Lab Sample ID: LCSD 580-195667/3-A
Matrix: Solid
Analysis Batch: 195856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195667

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	40.0	38.0		mg/Kg		95	60 - 120	1	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
Trifluorotoluene (Surr)	112		50 - 150						
4-Bromofluorobenzene (Surr)	93		50 - 150						

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

Lab Sample ID: MB 580-194652/1-A
Matrix: Solid
Analysis Batch: 194744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 194652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		20		mg/Kg		07/13/15 09:32	07/14/15 09:09	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	94		50 - 150				07/13/15 09:32	07/14/15 09:09	1

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

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

Lab Sample ID: LCS 580-194652/2-A
Matrix: Solid
Analysis Batch: 194744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194652

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (nC10-<nC25)	500	500		mg/Kg		100	75 - 125
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
<i>o-Terphenyl</i>	101		50 - 150				

Lab Sample ID: LCSD 580-194652/3-A
Matrix: Solid
Analysis Batch: 194744

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 194652

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (nC10-<nC25)	500	466		mg/Kg		93	75 - 125	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
<i>o-Terphenyl</i>	88		50 - 150						

Lab Sample ID: 230-549-3 MS
Matrix: Solid
Analysis Batch: 194744

Client Sample ID: 3 North
Prep Type: Total/NA
Prep Batch: 194652

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (nC10-<nC25)	7300	Y	1390	6480	4	mg/Kg	☼	-60	75 - 125
Surrogate	MS %Recovery	MS Qualifier	Limits						
<i>o-Terphenyl</i>	113		50 - 150						

Lab Sample ID: 230-549-3 MSD
Matrix: Solid
Analysis Batch: 194744

Client Sample ID: 3 North
Prep Type: Total/NA
Prep Batch: 194652

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (nC10-<nC25)	7300	Y	1420	5300	4	mg/Kg	☼	-142	75 - 125	20	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
<i>o-Terphenyl</i>	91		50 - 150								

QC Association Summary

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

GC/MS VOA

Prep Batch: 194758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-549-1	1 South	Total/NA	Solid	5035	
LCS 580-194758/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-194758/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 580-194758/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 194842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-549-1	1 South	Total/NA	Solid	8260C	194758
LCS 580-194758/2-A	Lab Control Sample	Total/NA	Solid	8260C	194758
LCSD 580-194758/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	194758
MB 580-194758/1-A	Method Blank	Total/NA	Solid	8260C	194758

Prep Batch: 196218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-549-6	Trip Blank	Total/NA	Solid	5035	

Analysis Batch: 196399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-549-6	Trip Blank	Total/NA	Solid	8260C	196218

GC/MS Semi VOA

Prep Batch: 194647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-549-1	1 South	Total/NA	Solid	3546	
230-549-1 MS	1 South	Total/NA	Solid	3546	
230-549-1 MSD	1 South	Total/NA	Solid	3546	
LCS 580-194647/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 580-194647/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 580-194647/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 195017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-549-1	1 South	Total/NA	Solid	8270D SIM	194647
230-549-1 MS	1 South	Total/NA	Solid	8270D SIM	194647
230-549-1 MSD	1 South	Total/NA	Solid	8270D SIM	194647
LCS 580-194647/2-A	Lab Control Sample	Total/NA	Solid	8270D SIM	194647
LCSD 580-194647/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D SIM	194647
MB 580-194647/1-A	Method Blank	Total/NA	Solid	8270D SIM	194647

GC VOA

Prep Batch: 195667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-549-1	1 South	Total/NA	Solid	5035	
230-549-6	Trip Blank	Total/NA	Solid	5035	
LCS 580-195667/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-195667/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 580-195667/1-A	Method Blank	Total/NA	Solid	5035	

TestAmerica Anchorage

QC Association Summary

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

GC VOA (Continued)

Analysis Batch: 195856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-549-1	1 South	Total/NA	Solid	AK101	195667
230-549-6	Trip Blank	Total/NA	Solid	AK101	195667
LCS 580-195667/2-A	Lab Control Sample	Total/NA	Solid	AK101	195667
LCSD 580-195667/3-A	Lab Control Sample Dup	Total/NA	Solid	AK101	195667
MB 580-195667/1-A	Method Blank	Total/NA	Solid	AK101	195667

GC Semi VOA

Prep Batch: 194652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-549-1	1 South	Total/NA	Solid	3546	
230-549-2	1 East	Total/NA	Solid	3546	
230-549-3	3 North	Total/NA	Solid	3546	
230-549-3 MS	3 North	Total/NA	Solid	3546	
230-549-3 MSD	3 North	Total/NA	Solid	3546	
230-549-4	3 South	Total/NA	Solid	3546	
230-549-5	3 North-D	Total/NA	Solid	3546	
LCS 580-194652/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 580-194652/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 580-194652/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 194744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-549-1	1 South	Total/NA	Solid	AK102 & 103	194652
230-549-2	1 East	Total/NA	Solid	AK102 & 103	194652
230-549-3	3 North	Total/NA	Solid	AK102 & 103	194652
230-549-3 MS	3 North	Total/NA	Solid	AK102 & 103	194652
230-549-3 MSD	3 North	Total/NA	Solid	AK102 & 103	194652
230-549-4	3 South	Total/NA	Solid	AK102 & 103	194652
230-549-5	3 North-D	Total/NA	Solid	AK102 & 103	194652
LCS 580-194652/2-A	Lab Control Sample	Total/NA	Solid	AK102 & 103	194652
LCSD 580-194652/3-A	Lab Control Sample Dup	Total/NA	Solid	AK102 & 103	194652
MB 580-194652/1-A	Method Blank	Total/NA	Solid	AK102 & 103	194652

General Chemistry

Analysis Batch: 194638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-549-1	1 South	Total/NA	Solid	D 2216	
230-549-1 DU	1 South	Total/NA	Solid	D 2216	
230-549-2	1 East	Total/NA	Solid	D 2216	
230-549-3	3 North	Total/NA	Solid	D 2216	
230-549-4	3 South	Total/NA	Solid	D 2216	
230-549-5	3 North-D	Total/NA	Solid	D 2216	

TestAmerica Anchorage

Lab Chronicle

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Client Sample ID: 1 South

Date Collected: 07/02/15 10:40

Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	194638	07/13/15 07:41	CTT	TAL SEA

Client Sample ID: 1 South

Date Collected: 07/02/15 10:40

Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-1

Matrix: Solid

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			194758	07/14/15 16:38	STA	TAL SEA
Total/NA	Analysis	8260C		1	194842	07/14/15 20:15	D1R	TAL SEA
Total/NA	Prep	3546			194647	07/13/15 08:53	CTT	TAL SEA
Total/NA	Analysis	8270D SIM		10	195017	07/16/15 15:25	AHP	TAL SEA
Total/NA	Prep	5035			195667	07/22/15 13:44	HDK	TAL SEA
Total/NA	Analysis	AK101		1	195856	07/23/15 23:14	CJ	TAL SEA
Total/NA	Prep	3546			194652	07/13/15 09:32	CTT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	194744	07/14/15 10:03	EKK	TAL SEA

Client Sample ID: 1 East

Date Collected: 07/02/15 10:45

Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	194638	07/13/15 07:41	CTT	TAL SEA

Client Sample ID: 1 East

Date Collected: 07/02/15 10:45

Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-2

Matrix: Solid

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			194652	07/13/15 09:32	CTT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	194744	07/14/15 10:20	EKK	TAL SEA

Client Sample ID: 3 North

Date Collected: 07/02/15 09:43

Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	194638	07/13/15 07:41	CTT	TAL SEA

TestAmerica Anchorage

Lab Chronicle

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Client Sample ID: 3 North

Date Collected: 07/02/15 09:43

Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-3

Matrix: Solid

Percent Solids: 33.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			194652	07/13/15 09:32	CTT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	194744	07/14/15 10:38	EKK	TAL SEA

Client Sample ID: 3 South

Date Collected: 07/02/15 10:00

Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	194638	07/13/15 07:41	CTT	TAL SEA

Client Sample ID: 3 South

Date Collected: 07/02/15 10:00

Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-4

Matrix: Solid

Percent Solids: 10.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			194652	07/13/15 09:32	CTT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	194744	07/14/15 11:32	EKK	TAL SEA

Client Sample ID: 3 North-D

Date Collected: 07/02/15 09:45

Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	194638	07/13/15 07:41	CTT	TAL SEA

Client Sample ID: 3 North-D

Date Collected: 07/02/15 09:45

Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-5

Matrix: Solid

Percent Solids: 17.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			194652	07/13/15 09:32	CTT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	194744	07/14/15 11:50	EKK	TAL SEA

Client Sample ID: Trip Blank

Date Collected: 07/02/15 00:00

Date Received: 07/09/15 10:35

Lab Sample ID: 230-549-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			196218	07/28/15 13:19	DGY	TAL SEA
Total/NA	Analysis	8260C		1	196399	07/29/15 16:59	RM	TAL SEA
Total/NA	Prep	5035			195667	07/22/15 14:00	HDK	TAL SEA
Total/NA	Analysis	AK101		1	195856	07/23/15 22:43	CJ	TAL SEA

TestAmerica Anchorage

Lab Chronicle

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Laboratory References:

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

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Certification Summary

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Laboratory: TestAmerica Anchorage

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-067	06-16-16

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-15
US Fish & Wildlife	Federal		LE192332-0	02-28-16
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-16

Method Summary

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SEA
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SEA
AK101	Alaska - Gasoline Range Organics (GC)	ADEC	TAL SEA
AK102 & 103	Alaska - Diesel Range Organics & Residual Range Organics (GC)	ADEC	TAL SEA
D 2216	Percent Moisture	ASTM	TAL SEA

Protocol References:

ADEC = Alaska Department of Environmental Conservation

ASTM = ASTM International

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

Laboratory References:

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



Sample Summary

Client: Carson Dorn, Inc
Project/Site: 10481 Ann Coleman

TestAmerica Job ID: 230-549-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
230-549-1	1 South	Solid	07/02/15 10:40	07/09/15 10:35
230-549-2	1 East	Solid	07/02/15 10:45	07/09/15 10:35
230-549-3	3 North	Solid	07/02/15 09:43	07/09/15 10:35
230-549-4	3 South	Solid	07/02/15 10:00	07/09/15 10:35
230-549-5	3 North-D	Solid	07/02/15 09:45	07/09/15 10:35
230-549-6	Trip Blank	Solid	07/02/15 00:00	07/09/15 10:35

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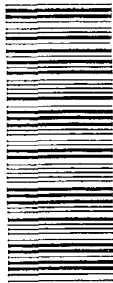
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

940
2000 W International A



230-549 Chain of Custody

09-924-9200 FAX 924-9290
03-906-9200 FAX 906-9210
07-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: CARLSON DOERN INC		INVOICE TO:		TURNAROUND REQUEST	
REPORT TO: TOM CARLSON		FRONT DESK @ CARLSON DOERN.COM		in Business Days *	
ADDRESS: T CARLSON @ CARLSON DOERN.COM		PRESERVATIVE		<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 Organic & Inorganic Analyses	
PHONE: 907-586-4447 FAX:		P.O. NUMBER:		<input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses	
PROJECT NAME: 10481 ANNI COLEMAN		REQUESTED ANALYSES		OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.	
PROJECT NUMBER:		MATRIX (W, S, O)		# OF CONT.	
SAMPLED BY: B. GEIGER		SAMPLING DATE/TIME		LOCATION/ COMMENTS	
1 SOUTH		7/2/15 10:40AM		S 3 01	
2 EAST		10:45AM		S 1 02	
3 NORTH		9:43AM		S 1 03	
3 SOUTH		9:00AM		S 1 04	
3 NORTH-D		9:45AM		S 1 05	
6					
7					
8					
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10					
RECEIVED BY: MEG		DATE: 7/2/15		DATE: 7/2/15	
PRINT NAME: Beta Geiger		TIME: 12:40 PM		TIME: 10:35	
FIRM: CDI		FIRM: Andrew Pich		FIRM: TAAK	
RECEIVED BY:		DATE:		DATE:	
PRINT NAME:		TIME:		TIME:	
FIRM:		FIRM:		FIRM:	
ADDITIONAL REMARKS:		TEMP: 1.1		PAGE OF	



Login Sample Receipt Checklist

Client: Carson Dorn, Inc

Job Number: 230-549-1

Login Number: 549

List Number: 1

Creator: Pilch, Andrew C

List Source: TestAmerica Anchorage

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Carson Dorn, Inc

Job Number: 230-549-1

Login Number: 549

List Number: 2

Creator: Vance, Diane R

List Source: TestAmerica Seattle

List Creation: 07/10/15 02:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	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?	N/A	Received project as a subcontract.
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	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Carson Dorn, Inc

Job Number: 230-549-1

Login Number: 549

List Number: 3

Creator: Vance, Diane R

List Source: TestAmerica Seattle

List Creation: 07/10/15 02:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Carson Dorn, Inc

Job Number: 230-549-1

Login Number: 549

List Number: 4

Creator: Vance, Diane R

List Source: TestAmerica Seattle

List Creation: 07/10/15 02:56 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	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?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

