

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

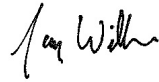
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Portland  
9405 SW Nimbus Ave.  
Beaverton, OR 97008  
Tel: (503)906-9200

TestAmerica Job ID: 250-12088-2  
Client Project/Site: TPH Reduction Test

For:  
Earth Science Products Corp.  
PO BOX 327  
Wilsonville, Oregon 97070

Attn: Dennis Turner



Authorized for release by:  
6/11/2013 2:44:39 PM

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

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

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

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# Sample Summary

Client: Earth Science Products Corp.  
Project/Site: TPH Reduction Test

TestAmerica Job ID: 250-12088-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-12088-1	Control	Solid	05/28/13 10:00	05/28/13 11:25
250-12088-2	Bacteria Only	Solid	05/28/13 10:00	05/28/13 11:25
250-12088-3	LR plus Bacteria	Solid	05/28/13 10:00	05/28/13 11:25

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# Case Narrative

Client: Earth Science Products Corp.  
Project/Site: TPH Reduction Test

TestAmerica Job ID: 250-12088-2

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## Job ID: 250-12088-2

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### Laboratory: TestAmerica Portland

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#### Narrative

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##### Receipt

The samples were received on 5/28/2013 11:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 19.3° C.

##### Except:

The following samples were received at the laboratory outside the required temperature criteria: Bacteria Only (250-12088-2), Control (250-12088-1), LR plus Bacteria (250-12088-3). The samples are considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

Method 8260B: Client complaint received. Details are as follows:

Client: Earth Science Products  
Client Contact Name: Dennis Turner  
Complaint Received By: Erica Fot  
Date of Receipt:6/5/13

##### Complaint Summary:

Client believes that there was a sample switch during analysis for 250-12088 for Method 8260. Sample labels were checked against client ID and re-analysis will take place.

Assigned To: Tony Badalian

##### Investigation / Explanation:

Sample ID's and labels were rechecked. Samples 250-12088-1, 250-12088-2, and 250-12088-3 were re-extracted in batch and re-analyzed by 8260 in batch 17468.

##### Corrective Action / Resolution:

N/A. Sample container ID's and labels are correct. Second extraction and Reanalysis on 06/07/2013, batch 17468, confirms initial results.

##### GC/MS VOA

No analytical or quality issues were noted.

##### GC VOA - Method NWTPH-Gx:

Due to the level of dilution required for the following sample(s), surrogate recoveries are not reportable: (250-12088-3 DU), Bacteria Only (250-12088-2), Control (250-12088-1), LR plus Bacteria (250-12088-3).

No other analytical or quality issues were noted.

##### GC Semi VOA - Method NWTPH-Dx:

Detected hydrocarbons in the diesel range appear to be due to gasoline range overlap. Bacteria Only (250-12088-2), Control (250-12088-1), LR plus Bacteria (250-12088-3)

No other analytical or quality issues were noted.

##### Organic Prep

No analytical or quality issues were noted.

##### VOA Prep

No analytical or quality issues were noted.

# Definitions/Glossary

Client: Earth Science Products Corp.  
Project/Site: TPH Reduction Test

TestAmerica Job ID: 250-12088-2

## Qualifiers

### General Chemistry

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

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
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)
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: Earth Science Products Corp.  
Project/Site: TPH Reduction Test

TestAmerica Job ID: 250-12088-2

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

**Client Sample ID: Control**

**Date Collected: 05/28/13 10:00**

**Date Received: 05/28/13 11:25**

**Lab Sample ID: 250-12088-1**

**Matrix: Solid**

**Percent Solids: 64.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	15000		7400		ug/Kg	☼	06/06/13 07:10	06/07/13 16:22	50
Toluene	220000		7400		ug/Kg	☼	06/06/13 07:10	06/07/13 16:22	50
Xylenes, Total	290000		22000		ug/Kg	☼	06/06/13 07:10	06/07/13 16:22	50
Ethylbenzene	54000		7400		ug/Kg	☼	06/06/13 07:10	06/07/13 16:22	50
Naphthalene	ND		15000		ug/Kg	☼	06/06/13 07:10	06/07/13 16:22	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125				06/06/13 07:10	06/07/13 16:22	50
4-Bromofluorobenzene (Surr)	99		75 - 125				06/06/13 07:10	06/07/13 16:22	50
Dibromofluoromethane (Surr)	94		75 - 125				06/06/13 07:10	06/07/13 16:22	50
Toluene-d8 (Surr)	99		75 - 125				06/06/13 07:10	06/07/13 16:22	50

**Client Sample ID: Bacteria Only**

**Date Collected: 05/28/13 10:00**

**Date Received: 05/28/13 11:25**

**Lab Sample ID: 250-12088-2**

**Matrix: Solid**

**Percent Solids: 65.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	11000		7400		ug/Kg	☼	06/06/13 07:10	06/07/13 16:44	50
Toluene	190000		7400		ug/Kg	☼	06/06/13 07:10	06/07/13 16:44	50
Xylenes, Total	270000		22000		ug/Kg	☼	06/06/13 07:10	06/07/13 16:44	50
Ethylbenzene	52000		7400		ug/Kg	☼	06/06/13 07:10	06/07/13 16:44	50
Naphthalene	ND		15000		ug/Kg	☼	06/06/13 07:10	06/07/13 16:44	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125				06/06/13 07:10	06/07/13 16:44	50
4-Bromofluorobenzene (Surr)	100		75 - 125				06/06/13 07:10	06/07/13 16:44	50
Dibromofluoromethane (Surr)	93		75 - 125				06/06/13 07:10	06/07/13 16:44	50
Toluene-d8 (Surr)	98		75 - 125				06/06/13 07:10	06/07/13 16:44	50

**Client Sample ID: LR plus Bacteria**

**Date Collected: 05/28/13 10:00**

**Date Received: 05/28/13 11:25**

**Lab Sample ID: 250-12088-3**

**Matrix: Solid**

**Percent Solids: 62.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	10000		7800		ug/Kg	☼	06/06/13 09:58	06/07/13 17:06	50
Toluene	180000		7800		ug/Kg	☼	06/06/13 09:58	06/07/13 17:06	50
Xylenes, Total	310000		23000		ug/Kg	☼	06/06/13 09:58	06/07/13 17:06	50
Ethylbenzene	58000		7800		ug/Kg	☼	06/06/13 09:58	06/07/13 17:06	50
Naphthalene	ND		16000		ug/Kg	☼	06/06/13 09:58	06/07/13 17:06	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125				06/06/13 09:58	06/07/13 17:06	50
4-Bromofluorobenzene (Surr)	99		75 - 125				06/06/13 09:58	06/07/13 17:06	50
Dibromofluoromethane (Surr)	92		75 - 125				06/06/13 09:58	06/07/13 17:06	50
Toluene-d8 (Surr)	97		75 - 125				06/06/13 09:58	06/07/13 17:06	50

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# Client Sample Results

Client: Earth Science Products Corp.  
Project/Site: TPH Reduction Test

TestAmerica Job ID: 250-12088-2

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: Control**  
**Date Collected: 05/28/13 10:00**  
**Date Received: 05/28/13 11:25**

**Lab Sample ID: 250-12088-1**  
**Matrix: Solid**  
**Percent Solids: 64.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	4900		590		mg/Kg	☼	06/06/13 07:10	06/06/13 17:48	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	97		50 - 150				06/06/13 07:10	06/06/13 17:48	100

**Client Sample ID: Bacteria Only**  
**Date Collected: 05/28/13 10:00**  
**Date Received: 05/28/13 11:25**

**Lab Sample ID: 250-12088-2**  
**Matrix: Solid**  
**Percent Solids: 65.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	3700		590		mg/Kg	☼	06/06/13 07:10	06/06/13 18:19	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	98		50 - 150				06/06/13 07:10	06/06/13 18:19	100

**Client Sample ID: LR plus Bacteria**  
**Date Collected: 05/28/13 10:00**  
**Date Received: 05/28/13 11:25**

**Lab Sample ID: 250-12088-3**  
**Matrix: Solid**  
**Percent Solids: 62.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	4400		630		mg/Kg	☼	06/06/13 07:10	06/06/13 18:49	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	84		50 - 150				06/06/13 07:10	06/06/13 18:49	100

# Client Sample Results

Client: Earth Science Products Corp.  
Project/Site: TPH Reduction Test

TestAmerica Job ID: 250-12088-2

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: Control**  
**Date Collected: 05/28/13 10:00**  
**Date Received: 05/28/13 11:25**

**Lab Sample ID: 250-12088-1**  
**Matrix: Solid**  
**Percent Solids: 64.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	140		19		mg/Kg	☼	06/07/13 12:39	06/10/13 12:54	1
RRO (nC25-nC36)	89		38		mg/Kg	☼	06/07/13 12:39	06/10/13 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	64		50 - 150				06/07/13 12:39	06/10/13 12:54	1

**Client Sample ID: Bacteria Only**  
**Date Collected: 05/28/13 10:00**  
**Date Received: 05/28/13 11:25**

**Lab Sample ID: 250-12088-2**  
**Matrix: Solid**  
**Percent Solids: 65.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	140		19		mg/Kg	☼	06/07/13 12:39	06/10/13 13:12	1
RRO (nC25-nC36)	88		38		mg/Kg	☼	06/07/13 12:39	06/10/13 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	72		50 - 150				06/07/13 12:39	06/10/13 13:12	1

**Client Sample ID: LR plus Bacteria**  
**Date Collected: 05/28/13 10:00**  
**Date Received: 05/28/13 11:25**

**Lab Sample ID: 250-12088-3**  
**Matrix: Solid**  
**Percent Solids: 62.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	80		20		mg/Kg	☼	06/07/13 12:39	06/10/13 13:30	1
RRO (nC25-nC36)	79		40		mg/Kg	☼	06/07/13 12:39	06/10/13 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	51		50 - 150				06/07/13 12:39	06/10/13 13:30	1



# Client Sample Results

Client: Earth Science Products Corp.  
Project/Site: TPH Reduction Test

TestAmerica Job ID: 250-12088-2

## General Chemistry

**Client Sample ID: Control**  
**Date Collected: 05/28/13 10:00**  
**Date Received: 05/28/13 11:25**

**Lab Sample ID: 250-12088-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	35	H	0.010		%			06/06/13 10:25	1
Percent Solids	65	H	0.010		%			06/06/13 10:25	1

**Client Sample ID: Bacteria Only**  
**Date Collected: 05/28/13 10:00**  
**Date Received: 05/28/13 11:25**

**Lab Sample ID: 250-12088-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	36	H	0.010		%			06/06/13 10:25	1
Percent Solids	64	H	0.010		%			06/06/13 10:25	1

**Client Sample ID: LR plus Bacteria**  
**Date Collected: 05/28/13 10:00**  
**Date Received: 05/28/13 11:25**

**Lab Sample ID: 250-12088-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	36	H	0.010		%			06/06/13 10:27	1
Percent Solids	64	H	0.010		%			06/06/13 10:27	1

# QC Sample Results

Client: Earth Science Products Corp.  
Project/Site: TPH Reduction Test

TestAmerica Job ID: 250-12088-2

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

**Lab Sample ID: MB 250-17375/7-A**

**Matrix: Solid**

**Analysis Batch: 17468**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 17375**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		97		ug/Kg		06/06/13 09:58	06/07/13 13:48	1
Toluene	ND		97		ug/Kg		06/06/13 09:58	06/07/13 13:48	1
Xylenes, Total	ND		290		ug/Kg		06/06/13 09:58	06/07/13 13:48	1
Ethylbenzene	ND		97		ug/Kg		06/06/13 09:58	06/07/13 13:48	1
Naphthalene	ND		190		ug/Kg		06/06/13 09:58	06/07/13 13:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125	06/06/13 09:58	06/07/13 13:48	1
4-Bromofluorobenzene (Surr)	99		75 - 125	06/06/13 09:58	06/07/13 13:48	1
Dibromofluoromethane (Surr)	95		75 - 125	06/06/13 09:58	06/07/13 13:48	1
Toluene-d8 (Surr)	99		75 - 125	06/06/13 09:58	06/07/13 13:48	1

**Lab Sample ID: LCS 250-17375/8-A**

**Matrix: Solid**

**Analysis Batch: 17468**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 17375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	1930	1860		ug/Kg		96	80 - 120
Toluene	1930	1840		ug/Kg		96	80 - 120
Xylenes, Total	5790	6190		ug/Kg		107	70 - 130
Ethylbenzene	1930	2070		ug/Kg		107	80 - 125
Naphthalene	1930	2280		ug/Kg		118	80 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		75 - 125
4-Bromofluorobenzene (Surr)	104		75 - 125
Dibromofluoromethane (Surr)	100		75 - 125
Toluene-d8 (Surr)	100		75 - 125

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-17363/1-A**

**Matrix: Solid**

**Analysis Batch: 17397**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 17363**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.0		mg/Kg		06/06/13 07:10	06/06/13 09:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	106		50 - 150	06/06/13 07:10	06/06/13 09:09	1

**Lab Sample ID: LCS 250-17363/2-A**

**Matrix: Solid**

**Analysis Batch: 17397**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 17363**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	24.9	29.9		mg/Kg		120	70 - 130

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# QC Sample Results

Client: Earth Science Products Corp.  
Project/Site: TPH Reduction Test

TestAmerica Job ID: 250-12088-2

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 250-17363/2-A**  
**Matrix: Solid**  
**Analysis Batch: 17397**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 17363**

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	109		50 - 150

**Lab Sample ID: 250-12088-3 DU**  
**Matrix: Solid**  
**Analysis Batch: 17397**

**Client Sample ID: LR plus Bacteria**  
**Prep Type: Total/NA**  
**Prep Batch: 17363**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Gasoline Range Hydrocarbons	4400		4240		mg/Kg	*	4	40

	DU	DU	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	93		50 - 150

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-17433/1-A**  
**Matrix: Solid**  
**Analysis Batch: 17486**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 17433**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
DRO (C10-C25)	ND		12		mg/Kg		06/07/13 12:39	06/10/13 11:41	1
RRO (nC25-nC36)	ND		25		mg/Kg		06/07/13 12:39	06/10/13 11:41	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier				
1-Chlorooctadecane	98		50 - 150	06/07/13 12:39	06/10/13 11:41	1

**Lab Sample ID: LCS 250-17433/2-A**  
**Matrix: Solid**  
**Analysis Batch: 17486**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 17433**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
DRO (C10-C25)	124	117		mg/Kg		94	50 - 150
RRO (nC25-nC36)	74.6	70.0		mg/Kg		94	50 - 150

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctadecane	95		50 - 150

## Method: D2216-80 - Percent Dry Weight (Solids) per ASTM D2216-80

**Lab Sample ID: 250-12088-3 DU**  
**Matrix: Solid**  
**Analysis Batch: 17379**

**Client Sample ID: LR plus Bacteria**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Percent Moisture	36	H	38		%		4	20
Percent Solids	64	H	62		%		2	20

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# Certification Summary

Client: Earth Science Products Corp.  
Project/Site: TPH Reduction Test

TestAmerica Job ID: 250-12088-2

## Laboratory: TestAmerica Portland

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	State Program	10	OR00040	06-30-13
Alaska (UST)	State Program	10	UST-012	12-26-13
California	State Program	9	2597	09-30-13
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-13

# Method Summary

Client: Earth Science Products Corp.  
Project/Site: TPH Reduction Test

TestAmerica Job ID: 250-12088-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL PRT
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL PRT
D2216-80	Percent Dry Weight (Solids) per ASTM D2216-80	ASTM	TAL PRT

**Protocol References:**

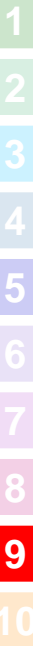
ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

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

**Laboratory References:**

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200



## Login Sample Receipt Checklist

Client: Earth Science Products Corp.

Job Number: 250-12088-2

**Login Number: 12088**

**List Source: TestAmerica Portland**

**List Number: 1**

**Creator: Krause, Thomas**

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No ice.
Cooler Temperature is acceptable.	False	Received same day of collection; chilling process has begun.
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.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

