

THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

## TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

## TestAmerica Job ID: 240-43166-1 Client Project/Site: Lamagna Cheese Co, Site 359

For:

Letterle and Associates, Inc. 2859 Oxford Drive Suite 110 Allison Park, Pennsylvania 15101

Attn: Mr. Mark Valenty

any McCormick

Authorized for release by: 10/29/2014 11:04:24 AM Amy McCormick, Project Manager II (330)966-9787 amy.mccormick@testamericainc.com

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#### Client: Letterle and Associates, Inc. Project/Site: Lamagna Cheese Co, Site 359

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Qualifiers	
GC VOA	
Qualifier	Qualifier Description
х	Surrogate is outside control limits
GC Semi VOA	
Qualifier	Qualifier Description
Х	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)	

#### Job ID: 240-43166-1

#### Laboratory: TestAmerica Canton

Narrative

## **CASE NARRATIVE**

#### Client: Letterle and Associates, Inc.

## Project: Lamagna Cheese Co, Site 359

#### Report Number: 240-43166-1

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

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

#### RECEIPT

The sample was received on 10/16/2014 9:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

#### GASOLINE RANGE ORGANICS (GRO)

Sample LNAPL: MW-3 (240-43166-1) was analyzed for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 10/22/2014.

Sample LNAPL: MW-3 (240-43166-1)[2000X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Trifluorotoluene (Surr) failed the surrogate recovery criteria low for LNAPL: MW-3 (240-43166-1).

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

#### **DIESEL RANGE ORGANICS (DRO)**

Sample LNAPL: MW-3 (240-43166-1) was analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 10/24/2014 and analyzed on 10/28/2014.

Sample LNAPL: MW-3 (240-43166-1)[1000X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

o-Terphenyl (Surr) failed the surrogate recovery criteria high for LNAPL: MW-3 (240-43166-1).

## Job ID: 240-43166-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

The analyst who prepared this batch added 1.0 mL of 2/.2 Surrogate (Pesticide/PCB surrogate) to the sample by mistake. Since we only had enough sample to perform this extraction once, he added the correct surrogate (OTP Surrogate) and proceeded as normal. The analytical team has been notified of this mistake and will expect such results on the chromatogram.

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

#### Client: Letterle and Associates, Inc. Project/Site: Lamagna Cheese Co, Site 359

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Method	Method Description	Protocol	Laboratory
8015B	Gasoline Range Organics - (GC)	SW846	TAL CAN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL CAN

#### Protocol References:

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

#### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: Letterle and Associates, Inc. Project/Site: Lamagna Cheese Co, Site 359

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-43166-1	LNAPL: MW-3	Waste	10/13/14 10:50	10/16/14 09:30

## **Detection Summary**

Client: Letterle and Associates, Inc. Project/Site: Lamagna Cheese Co, Site 359

42000000

610000

Gasoline Range Organics [C6 - C10]

Diesel Range Organics [C10 - C28]

Total/NA

Total/NA

# Client Sample ID: LNAPL: MW-3 Lab Sample ID: 240-43166-1 Analyte Result Qualifier RL MDL Unit Dil Fac D Method Prep Type

3400000 ug/Kg

8600 mg/Kg

2000

1000

8015B

8015B

10000000

190000

## **Client Sample Results**

Client: Letterle and Associates, Inc. Project/Site: Lamagna Cheese Co, Site 359 TestAmerica Job ID: 240-43166-1

## Client Sample ID: LNAPL: MW-3

Date Collected: 10/13/14 10:50 Date Received: 10/16/14 09:30

## Lab Sample ID: 240-43166-1

Matrix: Waste

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	420000000		10000000	3400000	ug/Kg		10/20/14 14:24	10/22/14 18:55	2000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	0	x	40 - 139				10/20/14 14:24	10/22/14 18:55	2000
- Method: 8015B - Diesel Range Or	ganics (DRO)	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	610000		190000	8600	mg/Kg		10/24/14 15:07	10/28/14 13:19	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	1865	V	40 - 160				10/24/14 15:07	10/28/14 13:19	1000

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

Matrix:	Waste

Prep T	vpe: T	otal/N	Α

Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)	
		TFT2		5
Lab Sample ID	Client Sample ID	(40-139)		
240-43166-1	LNAPL: MW-3	0 X		
LCS 240-152396/2-A	Lab Control Sample	119		0
MB 240-152396/1-A	Method Blank	103		
Surrogate Legend				
TET - Trifluorotoluono	(Surr)			

TFT = Trifluorotoluene (Surr)

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

_			Percent Surrogate Recovery (Acceptance Limits)
		OTPH1	
Lab Sample ID	Client Sample ID	(40-160)	
240-43166-1	LNAPL: MW-3	1865 X	
LCS 240-153226/3-A	Lab Control Sample	95	
MB 240-153226/2-A	Method Blank	83	
Surrogate Legend			

OTPH = o-Terphenyl (Surr)

10

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

Lab Sample ID: MB 240-152396	/1-A									Client Sa	mple ID: Metho	od Blank
Matrix: Waste											Prep Type: 7	Fotal/NA
Analysis Batch: 152724											Prep Batch	: 152396
	ME	з мв										
Analyte	Resu	t Qualifier	RL	I	MDL	Unit		D	Р	repared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	N	5	5000		170	ug/Kg		_	10/2	0/14 13:59	10/22/14 12:15	1
	М	B MB										
Surrogate	%Recover	y Qualifier	Limits						Р	repared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	10	3	40 - 139						10/2	0/14 13:59	10/22/14 12:15	1
-												
Lab Sample ID: LCS 240-15239	6/2-A							С	lient	Sample I	D: Lab Control	
Matrix: Waste	6/2-A							С	lient	Sample I	Prep Type:	Fotal/NA
	6/2-A							С	lient	Sample I	Prep Type: <sup>-</sup> Prep Batch	Fotal/NA
Matrix: Waste Analysis Batch: 152724	6/2-A		Spike	LCS				С		·	Prep Type: <sup>-</sup> Prep Batch %Rec.	Fotal/NA
Matrix: Waste	6/2-A		Added	Result		ifier	Unit	C	lient	%Rec	Prep Type: <sup>-</sup> Prep Batch %Rec. Limits	Fotal/NA
Matrix: Waste Analysis Batch: 152724	6/2-A		•			ifier	Unit ug/Kg	С		·	Prep Type: <sup>-</sup> Prep Batch %Rec.	Fotal/NA
Matrix: Waste Analysis Batch: 152724 Analyte	6/2-A		Added	Result		ifier		C		%Rec	Prep Type: <sup>-</sup> Prep Batch %Rec. Limits	Fotal/NA
Matrix: Waste Analysis Batch: 152724 Analyte Gasoline Range Organics [C6 -	6/2-A		Added	Result		ifier		C		%Rec	Prep Type: <sup>-</sup> Prep Batch %Rec. Limits	Fotal/NA
Matrix: Waste Analysis Batch: 152724 Analyte Gasoline Range Organics [C6 -			Added	Result		ifier		C		%Rec	Prep Type: <sup>-</sup> Prep Batch %Rec. Limits	Fotal/NA

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

_ Lab Sample ID: MB 240-153226 Matrix: Waste	6/2-A									Client Sa	mple ID: Me	thod Blank e: Total/NA
Analysis Batch: 153539												ch: 153226
Analysis Batch. 155555	м	з мв									Fiep Bat	UII. 133220
Analyte		t Qualifier	RL		MDL	Unit		D	Р	repared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	N	5	200		9.3	mg/Kg		_	10/2	4/14 15:07	10/28/14 14:2	.0 1
	М	3 <i>MB</i>										
Surrogate	%Recover	y Qualifier	Limits						P	repared	Analyzed	Dil Fac
o-Terphenyl (Surr)	8	3	40 - 160						10/2	4/14 15:07	10/28/14 14:2	20 1
Lab Sample ID: LCS 240-15322 Matrix: Waste Analysis Batch: 153539	6/3-A		Spike	LCS	LCS			С	lient	Sample		rol Sample e: Total/NA ch: 153226
Analyte			Added	Result	Qua	lifier	Unit		D	%Rec	Limits	
Diesel Range Organics [C10 - C28]			2500	2440			mg/Kg			97	52 - 120	
	LCS LC	s										
Surrogate o-Terphenyl (Surr)	%Recovery Qu	alifier	Limits 40 - 160									

## **GC VOA**

## Prep Batch: 152396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-43166-1	LNAPL: MW-3	Total/NA	Waste	5030B	
LCS 240-152396/2-A	Lab Control Sample	Total/NA	Waste	5030B	
MB 240-152396/1-A	Method Blank	Total/NA	Waste	5030B	
nalysis Batch: 15272		<b>D</b>	Madaia	<b>N</b> -44 - 4	David Diek
	4 Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
Lab Sample ID		Prep Type Total/NA	Matrix Waste	<u>Method</u> 8015B	Prep Batc 15239
<b>Lab Sample ID</b> 240-43166-1 LCS 240-152396/2-A	Client Sample ID				

## GC Semi VOA

#### Prep Batch: 153226

GC Semi VOA							
Prep Batch: 153226							
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch		
240-43166-1	LNAPL: MW-3	Total/NA	Waste	3580A			
LCS 240-153226/3-A	Lab Control Sample	Total/NA	Waste	3580A			
MB 240-153226/2-A	Method Blank	Total/NA	Waste	3580A			
Analysis Batch: 15353	9						
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch		
240-43166-1	LNAPL: MW-3	Total/NA	Waste	8015B	153226		
LCS 240-153226/3-A	Lab Control Sample	Total/NA	Waste	8015B	153226		
MB 240-153226/2-A	Method Blank	Total/NA	Waste	8015B	153226		

Batch

Number

152396

152724

153226

153539

Prepared

or Analyzed

10/20/14 14:24

10/22/14 18:55

10/24/14 15:07

10/28/14 13:19

Analyst

KMG

KMG

JDR

DEB

Lab

TAL CAN

TAL CAN

TAL CAN

TAL CAN

Dilution

Factor

2000

1000

Run

#### Client Sample ID: LNAPL: MW-3 Date Collected: 10/13/14 10:50 Date Received: 10/16/14 09:30

Batch

Туре

Prep

Prep

Analysis

Analysis

Lab Sample ID: 240-4	3166-1
Matriz	x: Waste

> **12** 13

#### Laboratory References:

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Batch

Method

5030B

8015B

3580A

8015B

#### Client: Letterle and Associates, Inc. Project/Site: Lamagna Cheese Co, Site 359

## Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Certification ID	Expiration Date	
California	NELAP	9	01144CA	06-30-14 *	
California	State Program	9	2927	04-30-15	
Connecticut	State Program	1	PH-0590	12-31-14	
Florida	NELAP	4	E87225	06-30-15	
Georgia	State Program	4	N/A	06-30-15	
Illinois	NELAP	5	200004	07-31-15	
Kansas	NELAP	7	E-10336	01-31-15	
Kentucky (UST)	State Program	4	58	06-30-15	
L-A-B	DoD ELAP		L2315	07-18-16	
Minnesota	NELAP	5	039-999-348	12-31-14	
Nevada	State Program	9	OH-000482008A	07-31-15	
New Jersey	NELAP	2	OH001	06-30-15	
New York	NELAP	2	10975	03-31-15	
Ohio VAP	State Program	5	CL0024	10-31-15	
Pennsylvania	NELAP	3	68-00340	08-31-15	
Texas	NELAP	6		08-31-15	
USDA	Federal		P330-13-00319	11-26-16	
Virginia	NELAP	3	460175	09-14-15	
Washington	State Program	10	C971	01-12-15	· · · · ·
West Virginia DEP	State Program	3	210	12-31-14	
Wisconsin	State Program	5	999518190	08-31-15	



TestAmerica Laboratories, Inc.

# CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-43166 Chain of Custody

	ample Receipt Form/Narrative	Login	1#: <u>43100</u>	
Canton Facility	and Array ates		Cooler Runpaged M:	H
Client	m K / DL Site Name	-10 K	Haller alu an	2
Cooler Received on			Other	
FedEx: 1 <sup>st</sup> Grd Exp TestAmerica Cooler #	And the second designed and the second designed and the second designed and the second designed and the second			
Packing material use	The second se			
		None		
1. Cooler temperature u	- Internet and the second se			
IR GUN# A (CF		Corrected Cooler Te		
IR GUN#4 (CF		Corrected Cooler Te		
IR GUN# 5 (CF	<u>0</u> °C) Observed Cooler Temp. °C	Corrected Cooler Te		
IR GUN# 8 (CF	0 °C) Observed Cooler Temp. $42^{\circ}$ C on the outside of the cooler(s)? If Yes Qua			
	on the outside of the cooler(s)? If i cs Qua		No NA	
-Were custody seals			(He)	
-	p attached to the cooler(s)?	Ales	$\mathcal{D}_{\mathrm{No}}$	
• • •	accompany the sample(s)?	Sugar	No	
5. Were the custody page	pers relinquished & signed in the appropriate pl	lace? Yes	DN0	
6 Did all 1- ++1	in coord condition (I Interation)?	(F)	DNo	
	in good condition (Unbroken)? ls be reconciled with the COC?	and the second se	No	
	s) used for the test(s) indicated?		2No	
	eceived to perform indicated analyses?		DNo	
10. Were sample(s) at th	e correct pH upon receipt?		No NA pH Strip Lot# <u>HC412469</u>	
11. Were VOAs on the O				
12. Were air bubbles >6	-		No NA	
13. Was a trip blank pres	sent in the cooler(s)?	Yes		
Contacted PM	Date by	via Verbal V	Voice Mail Other	
Concerning		and the second		
		a na manana ana ana ana ana ana ana ana	Samples processed by:	
14. CHAIN OF CUSTO $\sim$	DDY & SAMPLE DISCREPANCIES	Lel.		
Extreme	214 I imital alla	11/11/105		
2				
· · · · · · · · · · · · · · · · · · ·				
,,, ,, ,, ,, ,, _,				
		· · · · · · · · · · · · · · · · · · ·		
15. SAMPLE CONDIT	TION			
	were received after th	ne recommended hold	ling time had expired.	
Sample(s)		were receive	d in a broken container.	
Sample(s)	were received			
16. SAMPLE PRESER				
		wara fi	orther preserved in the laboratory.	
Sample(S)	Preservative(s) added/Lot number(s):	were It	a distribution de la contraction de la contracticit.	
1 mio hioon ion.	1 10301 vall vo(8) action 1.00 filminor(8)			