

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
HIGHWAY 160 2-2S
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	pH (su)	Specific Conductance (mmhos/cm)
B01@2'	2'	02/17/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.43	0.111
B02@2'	2'	02/17/2017	<0.050	<0.050	<0.050	<0.050	27.5	<5.00	<100	7.26	0.439
COGCC Allowable Levels			0.17	85	100	175	500*	500*	500*	6-9	4

Notes: bgs - below ground surface
COGCC - Colorado Oil and Gas Conservation Commission
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram
mmhos/cm - millimhos per centimeter

NA - not analyzed/not available
ORO - oil range organics
su - standard units
TPH - total petroleum hydrocarbons
* - TPH standard applies to combined DRO-GRO-ORO
< - less than laboratory reporting limit
Bold indicates result exceeds allowable level.





February 20, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Highway 160 2-2S

Project Number - 014217023/WO#892366

Attached are your analytical results for KMG - Highway 160 2-2S received by Origins Laboratory, Inc. February 17, 2017. This project is associated with Origins project number X702314-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014217023/WO#89236693
Project: KMG - Highway 160 2-2S

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@2'	X702314-01	Soil	February 17, 2017 13:15	02/17/2017 14:40
B02@2'	X702314-02	Soil	February 17, 2017 13:20	02/17/2017 14:40

Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217023/WO#89236693
 Project: KMG - Highway 160 2-2S

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 27023M

Client: LTE

Client Project ID: KMG - Highway 160 2-2S

Checklist Completed by: Don W

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-17-12 1450

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 16.1 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		sampled same day
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		yes pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: [Signature] (Project Manager)

Date/Time Reviewed: 2-17-12 1451

Origins Laboratory, Inc.

Jefe Pellegrini

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217023/WO#89236693
 Project: KMG - Highway 160 2-2S

B01@2'
2/17/2017 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X702314-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7B1702	02/17/2017	02/17/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 97.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7B1701	02/17/2017	02/17/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
Surrogate: Toluene-d8 113 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.43		pH Units	1	B7B1703	02/17/2017	02/17/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.111		mmhos/cm	"	B7B1704	02/17/2017	02/17/2017	
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LT Environmental, Inc.
 4600 West 60th Avenue
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Brian Sulzberger
 Project Number: 014217023/WO#89236693
 Project: KMG - Highway 160 2-2S

B02@2'
2/17/2017 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X702314-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	27.5	25.0	mg/kg	1	B7B1702	02/17/2017	02/17/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 90.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7B1701	02/17/2017	02/17/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
 Surrogate: Toluene-d8 111 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.26		pH Units	1	B7B1703	02/17/2017	02/17/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.439		mmhos/cm	"	B7B1704	02/17/2017	02/17/2017	
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LT Environmental, Inc.
 4600 West 60th Avenue
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Brian Sulzberger
 Project Number: 014217023/WO#89236693
 Project: KMG - Highway 160 2-2S

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B1701 - EPA 5030 (soil)										
Blank (B7B1701-BLK1)										
					Prepared: 02/17/2017 Analyzed: 02/17/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	74		ug/kg	62.5		119	70-130			
Surrogate: Toluene-d8	54		"	62.5		86.7	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7B1701 - EPA 5030 (soil)

LCS (B7B1701-BS1)

Prepared: 02/17/2017 Analyzed: 02/17/2017

Benzene	0.091	0.002	mg/kg	0.100		90.9	77.1-124			
Toluene	0.100	0.002	"	0.100		100	74.5-128			
Ethylbenzene	0.097	0.002	"	0.100		96.6	66.4-127			
m,p-Xylene	0.195	0.004	"	0.200		97.4	76.6-124			
o-Xylene	0.106	0.002	"	0.100		106	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.4	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7B1701 - EPA 5030 (soil)

Matrix Spike (B7B1701-MS1)	Source: X702263-01			Prepared: 02/17/2017 Analyzed: 02/17/2017						
Benzene	0.083	0.002	mg/kg	0.100	0.0007	82.6	71.8-126			
Toluene	0.097	0.002	"	0.100	0.003	93.4	65.1-130			
Ethylbenzene	0.092	0.002	"	0.100	0.0008	91.5	62.2-130			
m,p-Xylene	0.178	0.004	"	0.200	0.001	88.3	46.5-137			
o-Xylene	0.088	0.002	"	0.100	0.002	86.0	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.2	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.4	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7B1701 - EPA 5030 (soil)

Matrix Spike (B7B1701-MS2)	Source: X702231-01			Prepared: 02/17/2017 Analyzed: 02/17/2017						
Benzene	0.098	0.002	mg/kg	0.100	ND	98.3	71.8-126			
Toluene	0.097	0.002	"	0.100	ND	97.0	65.1-130			
Ethylbenzene	0.095	0.002	"	0.100	ND	94.8	62.2-130			
m,p-Xylene	0.185	0.004	"	0.200	ND	92.5	46.5-137			
o-Xylene	0.102	0.002	"	0.100	ND	102	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.8	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Brian Sulzberger
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 Project: KMG - Highway 160 2-2S

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7B1701 - EPA 5030 (soil)

Matrix Spike Dup (B7B1701-MSD1)	Source: X702263-01			Prepared: 02/17/2017 Analyzed: 02/17/2017						
Benzene	0.100	0.002	mg/kg	0.100	0.0007	99.7	71.8-126	18.7	11.3	QR-02
Toluene	0.098	0.002	"	0.100	0.003	94.8	65.1-130	1.37	15.4	
Ethylbenzene	0.112	0.002	"	0.100	0.0008	112	62.2-130	19.8	19.6	QR-02
m,p-Xylene	0.219	0.004	"	0.200	0.001	109	46.5-137	20.6	19.2	QR-02
o-Xylene	0.114	0.002	"	0.100	0.002	111	54.2-134	25.3	17.9	QR-02
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	74		"	62.5		119	70-130			

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 Project: KMG - Highway 160 2-2S

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7B1701 - EPA 5030 (soil)

Matrix Spike Dup (B7B1701-MSD2)	Source: X702231-01			Prepared: 02/17/2017 Analyzed: 02/18/2017						
Benzene	0.110	0.002	mg/kg	0.100	ND	110	71.8-126	11.6	11.3	QR-02
Toluene	0.110	0.002	"	0.100	ND	110	65.1-130	12.3	15.4	
Ethylbenzene	0.113	0.002	"	0.100	ND	113	62.2-130	17.9	19.6	
m,p-Xylene	0.224	0.004	"	0.200	ND	112	46.5-137	19.2	19.2	
o-Xylene	0.108	0.002	"	0.100	ND	108	54.2-134	5.89	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Brian Sulzberger
 Project Number: 014217023/WO#89236693
 Project: KMG - Highway 160 2-2S

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7B1702 - EPA 3580

Blank (B7B1702-BLK1)

Prepared: 02/17/2017 Analyzed: 02/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	50		"	50.0		99.3	59-131			

Blank (B7B1702-BLK2)

Prepared: 02/17/2017 Analyzed: 02/17/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	48		"	50.0		95.7	59-131			

LCS (B7B1702-BS1)

Prepared: 02/17/2017 Analyzed: 02/17/2017

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	64-121			
Residual Range Organics (C28-C40)	990	200	"	1000		99.0	58-124			
Surrogate: o-Terphenyl	55		"	50.0		110	59-131			

LCS (B7B1702-BS2)

Prepared: 02/17/2017 Analyzed: 02/17/2017

Diesel (C10-C28)	903	50.0	mg/kg	1000		90.3	64-121			
Residual Range Organics (C28-C40)	754	200	"	1000		75.4	58-124			
Surrogate: o-Terphenyl	49		"	50.0		98.2	59-131			

Matrix Spike (B7B1702-MS1)

Source: X702263-01

Prepared: 02/17/2017 Analyzed: 02/17/2017

Diesel (C10-C28)	943	50.0	mg/kg	1000	ND	94.3	53-125			
Residual Range Organics (C28-C40)	780	200	"	1000	ND	78.0	47-133			

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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B1702 - EPA 3580										
Matrix Spike (B7B1702-MS1)			Source: X702263-01		Prepared: 02/17/2017 Analyzed: 02/17/2017					
Surrogate: o-Terphenyl	51		mg/kg	50.0		102	59-131			
Matrix Spike (B7B1702-MS2)			Source: X702302-01		Prepared: 02/17/2017 Analyzed: 02/17/2017					
Diesel (C10-C28)	897	50.0	mg/kg	1000	34.6	86.2	53-125			
Residual Range Organics (C28-C40)	773	200	"	1000	ND	77.3	47-133			
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
Matrix Spike Dup (B7B1702-MSD1)			Source: X702263-01		Prepared: 02/17/2017 Analyzed: 02/17/2017					
Diesel (C10-C28)	944	50.0	mg/kg	1000	ND	94.4	53-125	0.0845	20	
Residual Range Organics (C28-C40)	793	200	"	1000	ND	79.3	47-133	1.65	20	
Surrogate: o-Terphenyl	49		"	50.0		98.3	59-131			
Matrix Spike Dup (B7B1702-MSD2)			Source: X702302-01		Prepared: 02/17/2017 Analyzed: 02/17/2017					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	34.6	99.5	53-125	14.3	20	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	47-133	29.5	20	QR-02
Surrogate: o-Terphenyl	58		"	50.0		116	59-131			

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Sulzberger
 Project Number: 014217023/WO#89236693
 Project: KMG - Highway 160 2-2S

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B1703 - NO PREP										
Duplicate (B7B1703-DUP1)		Source: X702291-01			Prepared: 02/17/2017 Analyzed: 02/17/2017					
pH	8.37		pH Units		8.40			0.358	25	
Batch B7B1704 - NO PREP										
Blank (B7B1704-BLK1)		Prepared: 02/17/2017 Analyzed: 02/17/2017								
Specific Conductance (EC)	0.00340		mmhos/cm							
Duplicate (B7B1704-DUP1)		Source: X702291-01			Prepared: 02/17/2017 Analyzed: 02/17/2017					
Specific Conductance (EC)	0.111		mmhos/cm		0.104			6.15	25	

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Brian Sulzberger
Project Number: 014217023/WO#89236693
Project: KMG - Highway 160 2-2S

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President