

December 16, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Gwardar 1N-22Hz

Project Number - 014211290

Attached are your analytical results for KMG - Gwardar 1N-22Hz received by Origins Laboratory, Inc. December 08, 2015. This project is associated with Origins project number X512141-01.

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



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Project Number: 014211290
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CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pad Comp (2)	X512141-01	Soil	December 8, 2015 12:40	12/08/2015 17:10

Origins Laboratory, Inc.



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Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X512141

Client: LT Environmental
 Client Project ID: Gwardar 1N-22Hz

Checklist Completed by: J. Pellegrini

Shipped Via: H/D
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 12/14/15 1320

Airbill #: NA

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

Cooler Number/Temperature: 1 / 49 °C 1 °C 1 °C 1 °C

Thermometer ID: T003

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"/>			
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"/>		
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.

J. Pellegrini
 Reviewed by (Project Manager)

12/14/15
 Date/Time Reviewed

Origins Laboratory, Inc.



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Pad Comp (2)

12/8/2015 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X512141-01 (Soil)

TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	50	mg/kg	1	B5L1003	12/10/2015	12/11/2015	
Diesel (C10-C28)	ND	50	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	86.0 %	65-146			"	"	"	

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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 B5L1003 - EPA 3580										
Blank (B5L1003-BLK1)					Prepared: 12/10/2015 Analyzed: 12/10/2015					
Gasoline (C6-C10)	ND	50	mg/kg							
Diesel (C10-C28)	ND	50	"							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	48.9		"	50.0		97.9	65-146			
LCS (B5L1003-BS1)					Prepared: 12/10/2015 Analyzed: 12/10/2015					
Gasoline (C6-C10)	1000	50	mg/kg				66.7-119			
Diesel (C10-C28)	840	50	"	1000		83.9	70.1-127			
Residual Range Organics (C28-C36)	1100	200	"	1000		106	54.5-139			
Surrogate: o-Terphenyl	54.5		"	50.0		109	65-146			
Matrix Spike (B5L1003-MS1)					Source: X512135-01		Prepared: 12/10/2015 Analyzed: 12/10/2015			
Gasoline (C6-C10)	880	50	mg/kg		22		56.4-132			
Diesel (C10-C28)	770	50	"	1000	ND	76.6	57.4-138			
Residual Range Organics (C28-C36)	850	200	"	1000	16	83.9	47.7-129			
Surrogate: o-Terphenyl	44.2		"	50.0		88.4	65-146			
Matrix Spike Dup (B5L1003-MSD1)					Source: X512135-01		Prepared: 12/10/2015 Analyzed: 12/10/2015			
Gasoline (C6-C10)	860	50	mg/kg		22		56.4-132	1.81	22	
Diesel (C10-C28)	750	50	"	1000	ND	75.3	57.4-138	1.70	18.3	
Residual Range Organics (C28-C36)	840	200	"	1000	16	82.9	47.7-129	1.15	30.1	
Surrogate: o-Terphenyl	42.5		"	50.0		85.1	65-146			

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President