



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702126-01.

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

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB08 @ 10'	X702126-01	Soil	February 3, 2017 12:46	02/03/2017 18:30

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

www.originslaboratory.com

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ORIGINS
LABORATORY, INC

702120

Client: LT Environmental, Inc.
Address: 4600 W 60th Ave., Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: Jeremy Pike

Project Manager: Allison White
Project Name: Toedtli 1-10 Inorganic Assessment
Project Number: 041716045
Samples Collected By: Jeremy Pike

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sampling Container #		
G004610	02/07/17	12:46	3	X					X		EC, pH, and SAR	1
												2
												3
												4
												5
												6
												7
												8
												9
												10
Relinquished By: [Signature]	Date: 02/07/17	Time: 1830	Time: 1830	Received By: [Signature]	Date: 2/5/17	Time: 1830	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>					
Relinquished By: [Signature]	Date:	Time:	Time:	Received By:	Date:	Time:						

Date Results Needed

3.2

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X762126

Client: LTE

Client Project ID: Toedtli 1-10 Inorganic

Checklist Completed by: Da Lu

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

Date/time completed: 2-6-17 1251

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.2 °C 1 °C 1 °C 1 °C

Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)		/		
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.

Da Lu
Reviewed by (Project Manager)

2-6-17 1251
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB08 @ 10'
2/3/2017 12:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702126-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	0.67		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.39		"	"	"	"	"	
Sodium	2.92		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.95		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	4.01			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0327		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - 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 B7B0604 - NO PREP

Duplicate (B7B0604-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	6.99		pH Units		7.02			0.428	25	

Batch B7B0605 - NO PREP

Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

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4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - 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 B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

Origins Laboratory, Inc.



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LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

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.

Origins Laboratory, Inc.



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February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702127-01.

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.

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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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB08 @ 1'	X702127-01	Soil	February 3, 2017 12:40	02/03/2017 18:30
SB08 @ 3'	X702127-02	Soil	February 3, 2017 12:42	02/03/2017 18:30
SB08 @ 5'	X702127-03	Soil	February 3, 2017 12:44	02/03/2017 18:30

Origins Laboratory, Inc.



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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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X702127

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LABORATORY, INC

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Client: LT Environmental, Inc.
Address: 4600 W 60th Ave., Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: Jeremy Pike

Project Manager: Allison White
Project Name: Toedtli 1-10 Inorganic Assessment
Project Number: 041716045
Samples Collected By: Jeremy Pike

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			Other
5808 @ 1'	02/05/17	12:40	3	X					X			EC, pH, and SAR	1
5808 @ 3'	↓	12:42	3	X					X			EC, pH, and SAR	2
5808 @ 5'	↓	12:44	3	X					X			EC, pH, and SAR	3
													4
													5
													6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	02/01/17	1830	<i>[Signature]</i>	2/3/17	1830	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

3.2

Origins Laboratory, Inc.

Jefe Pellegrini

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X702127

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: Dan Lee

Shipped Via: 4D
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-6-17 1254

Airbill #: NA

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

Cooler Number/Temperature: 1 / 32 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: TC03

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>plk</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 (Project Manager) Dan Lee

2-6-17 1255
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB08 @ 1'
2/3/2017 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702127-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	2.58		me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	0.66		"	"	"	"	"
Sodium	0.63		"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.46		pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	0.49			1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0630		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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Origins Laboratory, Inc.



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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB08 @ 3'
2/3/2017 12:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702127-02 (Soil)

Metals (Saturated Paste Prep)

Calcium	2.77		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	1.38		"	"	"	"	"	
Sodium	6.92		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.55		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	4.80			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.105		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB08 @ 5'
2/3/2017 12:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702127-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	11.73		me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	5.66		"	"	"	"	"
Sodium	14.04		"	"	"	"	"

pH in Soil by EPA 9045D

pH	7.16		pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	4.76			1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.140		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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 B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)	Source: X702126-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)	Source: X702127-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)	Source: X702142-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)	Source: X702142-02				Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)	Prepared: 02/06/2017 Analyzed: 02/06/2017									
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)	Prepared: 02/06/2017 Analyzed: 02/06/2017									
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)	Prepared: 02/06/2017 Analyzed: 02/06/2017									
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)	Prepared: 02/06/2017 Analyzed: 02/06/2017									
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)	Source: X702126-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

Origins Laboratory, Inc.



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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP										
Duplicate (B7B0605-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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.

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

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.

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.



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702128-01.

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

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB07 @ 1'	X702128-01	Soil	February 3, 2017 11:55	02/03/2017 18:30
SB07 @ 3'	X702128-02	Soil	February 3, 2017 11:57	02/03/2017 18:30
SB07 @ 5'	X702128-03	Soil	February 3, 2017 11:59	02/03/2017 18:30

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

www.originslaboratory.com

X702128

ORIGINS
LABORATORY, INC

Client: LT Environmental, Inc.
Address: 4600 W 60th Ave., Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: Jeremy Pike

Project Manager: Allison White
Project Name: Toedtli 1-10 Inorganic Assessment
Project Number: 041716045
Samples Collected By: Jeremy Pike

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
5107 (21)	02/01/17	1155	3	X					X		EC, pH, and SAR	1
5107 (23)	02/01/17	1157	3	X					X		EC, pH, and SAR	2
5107 (25)	02/01/17	1159	3	X					X		EC, pH, and SAR	3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Jeremy Pike	02/01/17	1830	[Signature]	2/3/17	1830	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

3.2

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X702128

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: JA

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

Date/time completed: 2-6-12 1257

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.2 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: TOUB

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			FD
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)		/		
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 (Project Manager)

2-6-12 1257
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB07 @ 1'
2/3/2017 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702128-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.73		me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	0.39		"	"	"	"	"
Sodium	0.57		"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.27		pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	0.55			1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0476		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB07 @ 3'
2/3/2017 11:57:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702128-02 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.32		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.49		"	"	"	"	"	
Sodium	2.96		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.48		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	3.11			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0442		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB07 @ 5'
2/3/2017 11:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702128-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	7.66		me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	3.77		"	"	"	"	"
Sodium	11.81		"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.35		pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	4.94			1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.184		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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 B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)	Source: X702126-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)	Source: X702127-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)	Source: X702142-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)	Source: X702142-02				Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)	Prepared: 02/06/2017 Analyzed: 02/06/2017									
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)	Prepared: 02/06/2017 Analyzed: 02/06/2017									
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)	Prepared: 02/06/2017 Analyzed: 02/06/2017									
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)	Prepared: 02/06/2017 Analyzed: 02/06/2017									
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)	Source: X702126-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP										
Duplicate (B7B0605-DUP2)	Source: X702127-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)	Source: X702142-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)	Source: X702142-02				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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.

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

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.

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.



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702129-01.

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

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB09 @ 1'	X702129-01	Soil	February 3, 2017 13:35	02/03/2017 18:30
SB09 @ 3'	X702129-02	Soil	February 3, 2017 13:37	02/03/2017 18:30
SB09 @ 5'	X702129-03	Soil	February 3, 2017 13:39	02/03/2017 18:30

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

www.originslaboratory.com

X162129

ORIGINS
LABORATORY, INC

Client: LT Environmental, Inc.
Address: 4600 W 60th Ave., Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: Jeremy Pike

Project Manager: Allison White
Project Name: Toedtli 1-10 Inorganic Assessment
Project Number: 041716045
Samples Collected By: Jeremy Pike

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sampling Container #			Other
SB09@1'	02/07/17	1335	3	X					X			EC, pH, and SAR	1
SB09@3'	↓	1337	3	X					X				2
SB09@5'	↓	1339	3	X					X				3
													4
													5
													6
													7
													8
													9
													10
Relinquished By: <i>[Signature]</i>	Date: 02/07/17	Time: 1830	Time: 1830	Received By: <i>[Signature]</i>	Date: 2/3/17	Time: 1830	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>						
Relinquished By: <i>[Signature]</i>	Date:			Received By:									

Date Results Needed

3-2

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y702129

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: Don W

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-6-17 1304

Airbill #: NA

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

Cooler Number/Temperature: 1 3.2 °C / °C / °C / °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 (Project Manager) Don W

Date/Time Reviewed 2-6-17

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB09 @ 1'
2/3/2017 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702129-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	107.33		me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	33.80		"	"	"	"	"
Sodium	126.80		"	"	"	"	"

pH in Soil by EPA 9045D

pH	7.60		pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	15.09			1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	2.31		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB09 @ 3'
2/3/2017 1:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

AAL, Inc.
X702129-02 (Soil)

Metals (Saturated Paste Prep)

Calcium	46.90	me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	21.13	"	"	"	"	"
Sodium	29.21	"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.04	pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	5.01		1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.609	mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB09 @ 5'
2/3/2017 1:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

AAL, Inc.
X702129-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	8.28		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	4.02		"	"	"	"	"	
Sodium	11.91		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.45		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	4.80			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.259		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - 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 B7B0604 - NO PREP

Duplicate (B7B0604-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	6.99		pH Units		7.02			0.428	25	

Batch B7B0605 - NO PREP

Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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.

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

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.

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.



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702130-01.

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

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB09 @ 10'	X702130-01	Soil	February 3, 2017 13:41	02/03/2017 18:30

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

www.originslaboratory.com

page ☐ of ☐

ORIGINS

LABORATORY, INC

X762130

Client: LT Environmental, Inc.
Address: 4600 W 60th Ave., Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: Jeremy Pike

Project Manager: Allison White
Project Name: Toedtli 1-10 Inorganic Assessment
Project Number: 041716045
Samples Collected By: Jeremy Pike

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sampling Container #		
5109010	04/17	1341	3	X					X		EC, pH, and SAR	1
												2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	04/03/17	1839	<i>[Signature]</i>	2/3/17	1830	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

3-2

Origins Laboratory, Inc.

Jen Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X762130

Client: LIE

Client Project ID: Toedtli 1-10

Checklist Completed by: D. Lu

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

Date/time completed: 2-6-17 1310

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.2 °C 1 °C 1 °C 1 °C

Thermometer ID: TOB3

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pr
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 (Project Manager)

2/6/17 1310
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB09 @ 10'
2/3/2017 1:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702130-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	0.28		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.14		"	"	"	"	"	
Sodium	2.98		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	9.04		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	6.50			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0721		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - 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 B7B0604 - NO PREP

Duplicate (B7B0604-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	6.99		pH Units		7.02			0.428	25	

Batch B7B0605 - NO PREP

Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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.

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

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.

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.



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702131-01.

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

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB07 @ 10'	X702131-01	Soil	February 3, 2017 12:02	02/03/2017 18:30

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

www.originslaboratory.com

X702131

ORIGINS
LABORATORY, INC

Client: LT Environmental, Inc.
Address: 4600 W 60th Ave., Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: Jeremy Pike

Project Manager: Allison White
Project Name: Toedtli 1-10 Inorganic Assessment
Project Number: 041716045
Samples Collected By: Jeremy Pike

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Sampled		
5807-01	02/01/17	12:02	3	X					X		EC, pH, and SAR	1
												2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
J. Pike	2/3/17	1830	J. Pike	2/3/17	1830	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

3.2

Origins Laboratory, Inc.

Jen Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X702131

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: DL

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

Date/time completed: 2-6-12 13:12

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.2 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: TOCB

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/	/	
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)		/		
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 (Project Manager) DL

2-6-12 13:13
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB07 @ 10'
2/3/2017 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702131-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	0.74		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.33		"	"	"	"	"	
Sodium	3.74		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.80		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	5.11			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0839		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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 B7B0604 - NO PREP

Duplicate (B7B0604-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	6.99		pH Units		7.02			0.428	25	

Batch B7B0605 - NO PREP

Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - 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 B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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.

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

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.

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.



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702132-01.

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

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB10 @ 10'	X702132-01	Soil	February 3, 2017 14:26	02/03/2017 18:30

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

www.originslaboratory.com

X762132

ORIGINS
LABORATORY, INC

Client: LT Environmental, Inc.
Address: 4600 W 60th Ave., Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: Jeremy Pike

Project Manager: Allison White
Project Name: Toedtli 1-10 Inorganic Assessment
Project Number: 041716045
Samples Collected By: Jeremy Pike

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Surface		
5 B10(0)101	02/03/17	1426	3	X					X		EC, pH, and SAR	1
												2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By: [Signature] Date: 02/03/17 Time: 1830
Relinquished By: [Signature] Date: 02/03/17 Time: 1830

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☒ 72 Hr ☐ Standard ☐

Date Results Needed

3.2

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X702132

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: D. Lee

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

Date/time completed: 2-6-17 1314

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.2 °C 1 / _____ °C 1 / _____ °C 1 / _____ °C

Thermometer ID: 703

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>pH</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 (Project Manager) D. Lee

Date/Time Reviewed 2-6-17 1315

Origins Laboratory, Inc.

Jen Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB10 @ 10'
2/3/2017 2:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702132-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	0.80	me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	0.37	"	"	"	"	"
Sodium	5.27	"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.95	pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	6.89		1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.110	mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - 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 B7B0604 - NO PREP

Duplicate (B7B0604-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	6.99		pH Units		7.02			0.428	25	

Batch B7B0605 - NO PREP

Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP										
Duplicate (B7B0605-DUP2)	Source: X702127-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)	Source: X702142-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)	Source: X702142-02				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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.

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

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.

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.



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702133-01.

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

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB10 @ 1'	X702133-01	Soil	February 3, 2017 14:20	02/03/2017 18:30
SB10 @ 3'	X702133-02	Soil	February 3, 2017 14:22	02/03/2017 18:30
SB10 @ 5'	X702133-03	Soil	February 3, 2017 14:24	02/03/2017 18:30

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

www.originslaboratory.com

X702133

ORIGINS
LABORATORY, INC

page ☐ of ☐

Client: LT Environmental, Inc.
Address: 4600 W 60th Ave., Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: Jeremy Pike

Project Manager: Allison White
Project Name: Toedtli 1-10 Inorganic Assessment
Project Number: 041716045
Samples Collected By: Jeremy Pike

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
SB10 @ 1'	02/03/17	1420	3	X					X		EC, pH, and SAR	1
SB10 @ 3'	↓	1422	3	X					X			2
SB10 @ 5'	↓	1424	3	X					X			3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	02/03/17	1430	<i>[Signature]</i>	2/3/17	1830	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

3.2

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X702133

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: Don Lee

Shipped Via: 4D
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-6-12 13:7

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.2 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: TOCB

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>pH</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 (Project Manager) Don Lee

2-6-12 13:8
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB10 @ 1'
2/3/2017 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702133-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.27	me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	0.38	"	"	"	"	"
Sodium	1.17	"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.70	pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	1.29		1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0687	mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB10 @ 3'
2/3/2017 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702133-02 (Soil)

Metals (Saturated Paste Prep)

Calcium	2.04		me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	0.87		"	"	"	"	"
Sodium	11.10		"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.79		pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	9.20			1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.202		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB10 @ 5'
2/3/2017 2:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

AAL, Inc.
X702133-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.71		me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	0.83		"	"	"	"	"
Sodium	8.99		"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.72		pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	7.98			1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.160		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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 B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)					Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)					Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)					Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)					Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP										
Duplicate (B7B0605-DUP2)	Source: X702127-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)	Source: X702142-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)	Source: X702142-02				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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.

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

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.

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.



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702134-01.

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

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB06 @ 1'	X702134-01	Soil	February 3, 2017 10:40	02/03/2017 18:30
SB06 @ 3'	X702134-02	Soil	February 3, 2017 10:42	02/03/2017 18:30
SB06 @ 5'	X702134-03	Soil	February 3, 2017 10:44	02/03/2017 18:30

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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X702134

ORIGINS
LABORATORY, INC

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Client: LT Environmental, Inc.
Address: 4600 W 60th Ave., Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: Jeremy Pike

Project Manager: Allison White
Project Name: Toedtli 1-10 Inorganic Assessment
Project Number: 041716045
Samples Collected By: Jeremy Pike

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ #		
SB06 @ 1'	02/11/17	1049	3	X				X			EC, pH, and SAR	1
SB06 @ 3'	↓	1042	3	X				X				2
SB06 @ 5'	↓	1044	3	X				X				3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	2/3/17	1730	<i>[Signature]</i>	2/3/17	1830	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

3.2

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtl 1-10 Inorganic Assessment

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X702134

Client: LTE

Client Project ID: Toedtl 1-10

Checklist Completed by: Da Lu

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

Date/time completed: 7-6-12 1320

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.2 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: TOED

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			ph
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)		/		
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 (Project Manager) Da Lu

7-6-12 1320
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB06 @ 1'
2/3/2017 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702134-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	9.54		me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	5.11		"	"	"	"	"
Sodium	45.83		"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.61		pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	16.93			1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.464		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB06 @ 3'
2/3/2017 10:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702134-02 (Soil)

Metals (Saturated Paste Prep)

Calcium	10.10		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	5.45		"	"	"	"	"	
Sodium	10.93		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.31		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	3.92			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.208		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB06 @ 5'
2/3/2017 10:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702134-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	3.99		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	2.19		"	"	"	"	"	
Sodium	4.85		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.65		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	2.76			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0951		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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 B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)					Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)					Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)					Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)					Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP										
Duplicate (B7B0605-DUP2)	Source: X702127-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)	Source: X702142-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)	Source: X702142-02				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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.

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

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.

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.



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702135-01.

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

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB11 @ 10'	X702135-01	Soil	February 3, 2017 15:16	02/03/2017 18:30

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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X702155

ORIGINS
LABORATORY, INC

page ☐ of ☐

Client: LT Environmental, Inc.
Address: 4600 W 60th Ave., Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: Jeremy Pike

Project Manager: Allison White
Project Name: Toedtli 1-10 Inorganic Assessment
Project Number: 041716045
Samples Collected By: Jeremy Pike

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
SB11 @ 10'	02/07/17	1516	3	X					X		EC, pH, and SAR	1
												2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:	
						Same Day	Standard
<i>[Signature]</i>	02/03/17	0831	<i>[Signature]</i>	2/3/17	1830	<input checked="" type="checkbox"/> 48 Hr	<input type="checkbox"/> 24 Hr
						<input type="checkbox"/> 72 Hr	

Date Results Needed

3.2

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtl 1-10 Inorganic Assessment

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X762135

Client: LTE

Client Project ID: Toedtl 1-10

Checklist Completed by: Don Lee

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-6-12 1323

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.2 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: TO23

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>pH</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 Na ₂ CO ₃ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 (Project Manager) Don Lee

Date/Time Reviewed 2-6-12 1325

Origins Laboratory, Inc.

Jen Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB11 @ 10'
2/3/2017 3:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702135-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	23.17		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	11.33		"	"	"	"	"	
Sodium	37.02		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.95		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	8.91			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.636		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - 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 B7B0604 - NO PREP

Duplicate (B7B0604-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	6.99		pH Units		7.02			0.428	25	

Batch B7B0605 - NO PREP

Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - 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 B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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.

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

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.

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.



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702136-01.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB11 @ 1'	X702136-01	Soil	February 3, 2017 15:10	02/03/2017 18:30
SB11 @ 3'	X702136-02	Soil	February 3, 2017 15:12	02/03/2017 18:30
SB11 @ 5'	X702136-03	Soil	February 3, 2017 15:14	02/03/2017 18:30

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

www.originslaboratory.com

X762136

ORIGINS
LABORATORY, INC

page ☐ of ☐

Client: LT Environmental, Inc.
Address: 4600 W 60th Ave., Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: Jeremy Pike

Project Manager: Allison White
Project Name: Toedtli 1-10 Inorganic Assessment
Project Number: 041716045
Samples Collected By: Jeremy Pike

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sampling Container #		
SB11 @ 1'	02/03/12	1510	3	X				X			EC, pH, and SAR	1
SB11 @ 3'	↓	1512	3	X				X				2
SB11 @ 5'	↓	1514	3	X				X				3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Jeff	02/03/12	1530	Jeremy Pike	02/03/12	1830	48 Hr
Jeff						

Date Results Needed

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Origins Laboratory, Inc.

Jeff Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtl 1-10 Inorganic Assessment

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y702136

Client: LTE

Client Project ID: Toedtl 1-10

Checklist Completed by: Don Lu

Shipped Via: HD

Date/time completed: 2-6-12 1328

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.2 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)		/		
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 (Project Manager)

2-6-12 1329
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB11 @ 1'
2/3/2017 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702136-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	3.01	me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	1.07	"	"	"	"	"
Sodium	1.94	"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.35	pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	1.36		1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0738	mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB11 @ 3'
2/3/2017 3:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702136-02 (Soil)

Metals (Saturated Paste Prep)

Calcium	0.42	me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	0.17	"	"	"	"	"
Sodium	2.66	"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.99	pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	4.90		1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.122	mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB11 @ 5'
2/3/2017 3:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702136-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.92	me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	0.81	"	"	"	"	"
Sodium	21.12	"	"	"	"	"

pH in Soil by EPA 9045D

pH	9.09	pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	18.08		1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.439	mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - 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 B7B0604 - NO PREP

Duplicate (B7B0604-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	6.99		pH Units		7.02			0.428	25	

Batch B7B0605 - NO PREP

Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP										
Duplicate (B7B0605-DUP2)	Source: X702127-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)	Source: X702142-01				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)	Source: X702142-02				Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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.

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

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.

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.



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702137-01.

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

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB06 @ 10'	X702137-01	Soil	February 3, 2017 10:50	02/03/2017 18:30

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

www.originslaboratory.com

X702137

ORIGINS
LABORATORY, INC

page ☐ of ☐

Client: LT Environmental, Inc.
Address: 4600 W 60th Ave., Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: Jeremy Pike

Project Manager: Allison White
Project Name: Toedtli 1-10 Inorganic Assessment
Project Number: 041716045
Samples Collected By: Jeremy Pike

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Surface		
5806 (S) 10' op 2/14/17	02/14/17	1050	3	X				X			EC, pH, and SAR	sample ID 1 Ground not the exactly same as on 2/14/17 op
Relinquished By: <i>[Signature]</i>	Date: 2/13/17	Time: 1730		Received By: <i>[Signature]</i>	Date: 2/13/17	Time: 1830		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>				
Relinquished By:	Date:	Time:		Received By:	Date:	Time:						

Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X702137

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: Da Lu

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

Date/time completed: 2-6-17 1327

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.2 °C / _____ °C / _____ °C / _____ °C (Describe)

Thermometer ID: TOOB

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 (Project Manager)

2-6-17 1331
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB06 @ 10'
2/3/2017 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702137-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	0.27		me/L	1	'[none]'	02/07/2017	02/08/2017
Magnesium	0.16		"	"	"	"	"
Sodium	2.05		"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.96		pH Units	1	B7B0604	02/06/2017	02/06/2017
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SAR by 20B Saturated Paste

SAR	4.42			1	'[none]'	02/07/2017	02/08/2017
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0735		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017
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Origins Laboratory, Inc.



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

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - 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 B7B0604 - NO PREP

Duplicate (B7B0604-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
pH	6.99		pH Units		7.02			0.428	25	

Batch B7B0605 - NO PREP

Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

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Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - 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 B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02		Prepared: 02/06/2017 Analyzed: 02/06/2017						
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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4600 West 60th Avenue

Arvada CO 80003

Allison White

Project Number: 041716045

Project: Toedtli 1-10 Inorganic Assessment

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.

Origins Laboratory, Inc.



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