



February 14, 2014

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Bydalek 28C-20HZ

Project Number - 014211290

Attached are your analytical results for KMG - Bydalek 28C-20HZ received by Origins Laboratory, Inc. January 08, 2014. This project is associated with Origins project number X401070-01.

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

John Cocroft
Project Number: 014211290
Project: KMG - Bydalek 28C-20HZ

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bydalek On Pad	X401070-01	Soil	January 8, 2014 12:15	01/08/2014 17:00
Bydalek Off (0A)	X401070-02	Soil	January 8, 2014 12:20	01/08/2014 17:00
Bydalek Off (0B)	X401070-03	Soil	January 8, 2014 12:23	01/08/2014 17:00
Bydalek Off (0C)	X401070-04	Soil	January 8, 2014 12:25	01/08/2014 17:00
Bydalek Off (0D)	X401070-05	Soil	January 8, 2014 12:27	01/08/2014 17:00
Bydalek Off Comp	X401070-06	Soil	January 8, 2014 12:35	01/08/2014 17:00

Origins Laboratory, Inc.



Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014211290
Project: KMG - Bydalek 28C-20HZ

www.originslaboratory.com

page 1 of 1

X460670

ORIGINS
LABORATORY, INC

Client: LT ENV
Address: 4600 W 60th AVE
Telephone Number: 303 433 9788
Email Address: JCOCROFT@LTENV.COM

Project Manager: JOHN COCROFT
Project Name: BYDALEK 35-20 HZ
Project Number: 014211290
Samples Collected By: B PARASZKO

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis					Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	TPH	BTEX	PH, EC, SAR	Total Arsenic		Total Beryllium
BYDALEK ON PAD	1/8/14	1215	3	X					X				X	X	X	X	1
BYDALEK OFF (04)		1220	1														2
BYDALEK OFF (08)		1223	1														3
BYDALEK OFF (0C)		1225	1														4
BYDALEK OFF (0B)		1227	1														5
BYDALEK OFF Comp		1235	2										X	X	X		6
																	7
																	8
																	9
																	10
Relinquished By: <i>Byrd Kule</i>	Date: 1/8/14	Time: 1700		Received By: <i>[Signature]</i>	Date: 1/8/14	Time: 1700		Time: 1700	Date: 1/8/14	Time: 1700		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard					

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

Origins Laboratory, Inc.

Noelle Doyle Mathis

Noelle Doyle Mathis, President

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

John Cocroft

Project Number: 014211290

Project: KMG - Bydalek 28C-20HZ

Bydalek On Pad

1/8/2014 12:15:00PM

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

Origins Laboratory, Inc.
X401070-01 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.004	mg/kg	1	4A09009	01/09/2014	01/13/2014
Toluene	ND	0.004	"	"	"	"	"
Ethylbenzene	ND	0.004	"	"	"	"	"
Xylenes, total	ND	0.004	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"
Surrogate: Toluene-d8	108 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.241		mmhos/cm	1	4A09008	01/09/2014	01/10/2014
---------------------------	-------	--	----------	---	---------	------------	------------

Metals by SW846 3050B/6010C

Arsenic	3.04	2.92	mg/kg dry	1	1359202	01/13/2014	01/14/2014
Barium	286.0	0.486	"	"	"	"	"

pH by SW846 9045C/9045D

pH	8.20	0.100	SU	1	1359375		01/11/2014	H
----	------	-------	----	---	---------	--	------------	---

SAR Metals by SW846 3050B/6010C

Calcium	3870	24.3	mg/kg dry	1	1359202	01/13/2014	01/14/2014
Magnesium	2130	29.2	"	"	"	"	"

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.

Noelle Doyle Mathis, President

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

John Cocroft

Project Number: 014211290

Project: KMG - Bydalek 28C-20HZ

Bydalek On Pad

1/8/2014 12:15:00PM

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

GEL Laboratories, LLC

X401070-01 (Soil)

SAR Metals by SW846 3050B/6010C

Sodium	158	24.3	mg/kg dry	1	1359202	01/13/2014	01/14/2014
--------	-----	------	-----------	---	---------	------------	------------

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.507		none	1	1360339		01/15/2014
-------------------------	-------	--	------	---	---------	--	------------

TCLP Metals by 1311/3010A/6010C

Arsenic	ND	0.300	mg/L	1	1359943	01/14/2014	01/14/2014	U
---------	----	-------	------	---	---------	------------	------------	---

TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	25.0	mg/kg	1	4A09010	01/09/2014	01/10/2014
Diesel (C10-C28)	ND	25.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	50.0	"	"	"	"	"
TPH - Carbon Chain Total	ND	25.0	"	"	"	"	"

Surrogate: o-Terphenyl	100 %	59-131			"	"	"
------------------------	-------	--------	--	--	---	---	---

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.

Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014211290
Project: KMG - Bydalek 28C-20HZ

Bvdalek Off (0A)

1/8/2014 12:20:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC
X401070-02 (Soil)

Metals by SW846 3050B/6010C

Arsenic	3.85	3.14	mg/kg dry	1	1359202	01/13/2014	01/14/2014
---------	------	------	-----------	---	---------	------------	------------

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.

Noelle Doyle Mathis, President

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

John Cocroft

Project Number: 014211290

Project: KMG - Bydalek 28C-20HZ

Bydalek Off (OB)

1/8/2014 12:23:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC

X401070-03 (Soil)

Metals by SW846 3050B/6010C

Arsenic	4.73	2.86	mg/kg dry	1	1359202	01/13/2014	01/14/2014
---------	------	------	-----------	---	---------	------------	------------

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.

Noelle Doyle Mathis, President

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

John Cocroft

Project Number: 014211290

Project: KMG - Bydalek 28C-20HZ

Bydalek Off (OC)

1/8/2014 12:25:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC

X401070-04 (Soil)

Metals by SW846 3050B/6010C

Arsenic	5.85	3.21	mg/kg dry	1	1359202	01/13/2014	01/14/2014
---------	------	------	-----------	---	---------	------------	------------

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.

Noelle Doyle Mathis, President

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

John Cocroft

Project Number: 014211290

Project: KMG - Bydalek 28C-20HZ

Bydalek Off (OD)

1/8/2014 12:27:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC

X401070-05 (Soil)

Metals by SW846 3050B/6010C

Arsenic	6.45	3.35	mg/kg dry	1	1359202	01/13/2014	01/14/2014
---------	------	------	-----------	---	---------	------------	------------

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.

Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014211290
Project: KMG - Bydalek 28C-20HZ

Bydalek Off Comp
1/8/2014 12:35:00PM

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

Origins Laboratory, Inc.
X401070-06 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.251		mmhos/cm	1	4A09008	01/09/2014	01/10/2014
---------------------------	-------	--	----------	---	---------	------------	------------

Metals by SW846 3050B/6010C

Arsenic	3.99	3.22	mg/kg dry	1	1359202	01/13/2014	01/14/2014
Barium	140.0	0.536	"	"	"	"	"

pH by SW846 9045C/9045D

pH	7.87	0.100	SU	1	1359504		01/13/2014	H
----	------	-------	----	---	---------	--	------------	---

SAR Metals by SW846 3050B/6010C

Calcium	6580	26.8	mg/kg dry	1	1359202	01/13/2014	01/14/2014
Magnesium	2980	32.2	"	"	"	"	"
Sodium	80.5	26.8	"	"	"	"	"

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.207		none	1	1360339		01/15/2014
-------------------------	-------	--	------	---	---------	--	------------

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.

Noelle Doyle Mathis, President

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

John Cocroft

Project Number: 014211290

Project: KMG - Bydalek 28C-20HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4A09009 - EPA 5030 (soil)

Blank (4A09009-BLK1)

Prepared: 01/09/2014 Analyzed: 01/13/2014

Benzene	ND	0.004	mg/kg							
Toluene	ND	0.004	"							
Ethylbenzene	ND	0.004	"							
Xylenes, total	ND	0.004	"							
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5	113		70-130			
Surrogate: Toluene-d8	67		"	62.5	108		70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5	108		70-130			

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.

Noelle Doyle Mathis, President

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

John Cocroft

Project Number: 014211290

Project: KMG - Bydalek 28C-20HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4A09009 - EPA 5030 (soil)

LCS (4A09009-BS1)

Prepared: 01/09/2014 Analyzed: 01/13/2014

Benzene	0.2	0.004	mg/kg	0.200		100	70-130			
Toluene	0.2	0.004	"	0.200		112	70-130			
Ethylbenzene	0.2	0.004	"	0.200		105	70-130			
m,p-Xylene	0.4	0.008	"	0.400		98.3	70-130			
o-Xylene	0.2	0.004	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.2	70-130			
Surrogate: Toluene-d8	69		"	62.5		111	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		109	70-130			

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.

Noelle Doyle Mathis, President

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

John Cocroft

Project Number: 014211290

Project: KMG - Bydalek 28C-20HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4A09009 - EPA 5030 (soil)

Matrix Spike (4A09009-MS1)		Source: X401067-01			Prepared: 01/09/2014 Analyzed: 01/13/2014					
Benzene	0.2	0.004	mg/kg	0.200	ND	109	70-130			
Toluene	0.2	0.004	"	0.200	ND	111	70-130			
Ethylbenzene	0.2	0.004	"	0.200	ND	105	70-130			
m,p-Xylene	0.4	0.008	"	0.400	ND	96.1	70-130			
o-Xylene	0.2	0.004	"	0.200	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		109	70-130			

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.

Noelle Doyle Mathis, President

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

John Cocroft

Project Number: 014211290

Project: KMG - Bydalek 28C-20HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4A09009 - EPA 5030 (soil)

Matrix Spike Dup (4A09009-MSD1)		Source: X401067-01			Prepared: 01/09/2014 Analyzed: 01/13/2014					
Benzene	0.2	0.004	mg/kg	0.200	ND	100	70-130	8.30	20	
Toluene	0.2	0.004	"	0.200	ND	103	70-130	7.50	20	
Ethylbenzene	0.2	0.004	"	0.200	ND	99.2	70-130	5.26	20	
m,p-Xylene	0.4	0.008	"	0.400	ND	92.3	70-130	4.01	20	
o-Xylene	0.2	0.004	"	0.200	ND	98.8	70-130	6.08	20	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	68		"	62.5		109	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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.

Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014211290
Project: KMG - Bydalek 28C-20HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4A09010 - EPA 3580

Blank (4A09010-BLK1)

Prepared: 01/09/2014 Analyzed: 01/09/2014

Gasoline (C6-C10)	ND	50.0	mg/kg
Diesel (C10-C28)	ND	50.0	"
Residual Range Organics (C28-C36)	ND	100	"
TPH - Carbon Chain Total	ND	50.0	"

Surrogate: o-Terphenyl 56.8 g 50.0 114 59-131

Blank (4A09010-BLK2)

Prepared: 01/09/2014 Analyzed: 01/09/2014

Gasoline (C6-C10)	ND	50.0	mg/kg
Diesel (C10-C28)	ND	50.0	"
Residual Range Organics (C28-C36)	ND	100	"
TPH - Carbon Chain Total	ND	50.0	"

Surrogate: o-Terphenyl 46.2 g 50.0 92.4 59-131

LCS (4A09010-BS1)

Prepared: 01/09/2014 Analyzed: 01/09/2014

Gasoline (C6-C10)	956	50.0	mg/kg	1000	95.6	59-133
Diesel (C10-C28)	1010	50.0	"	1000	101	64-121
Residual Range Organics (C28-C36)	923	100	"	1000	92.3	58-124

Surrogate: o-Terphenyl 60.9 g 50.0 122 59-131

LCS (4A09010-BS2)

Prepared: 01/09/2014 Analyzed: 01/09/2014

Gasoline (C6-C10)	1120	50.0	mg/kg	1000	112	59-133
Diesel (C10-C28)	1160	50.0	"	1000	116	64-121

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.

Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014211290
Project: KMG - Bydalek 28C-20HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4A09010 - EPA 3580										
LCS (4A09010-BS2)					Prepared: 01/09/2014 Analyzed: 01/09/2014					
Residual Range Organics (C28-C36)	1090	100	mg/kg	1000		109	58-124			
Surrogate: o-Terphenyl	59.3		g	50.0		119	59-131			
Matrix Spike (4A09010-MS1)					Source: X401067-01 Prepared: 01/09/2014 Analyzed: 01/09/2014					
Gasoline (C6-C10)	953	50.0	mg/kg	1000	ND	95.3	57-139			
Diesel (C10-C28)	1000	50.0	"	1000	ND	100	53-125			
Residual Range Organics (C28-C36)	936	100	"	1000	22.7	91.3	47-133			
Surrogate: o-Terphenyl	55.8		g	50.0		112	59-131			
Matrix Spike (4A09010-MS2)					Source: X401083-02 Prepared: 01/09/2014 Analyzed: 01/09/2014					
Gasoline (C6-C10)	1050	50.0	mg/kg	1000	ND	105	57-139			
Diesel (C10-C28)	1090	50.0	"	1000	ND	109	53-125			
Residual Range Organics (C28-C36)	1060	100	"	1000	55.8	100	47-133			
Surrogate: o-Terphenyl	59.3		g	50.0		119	59-131			
Matrix Spike Dup (4A09010-MSD1)					Source: X401067-01 Prepared: 01/09/2014 Analyzed: 01/09/2014					
Gasoline (C6-C10)	756	50.0	mg/kg	1000	ND	75.6	57-139	23.0	20	QR-02
Diesel (C10-C28)	823	50.0	"	1000	ND	82.3	53-125	19.6	20	
Residual Range Organics (C28-C36)	805	100	"	1000	22.7	78.2	47-133	15.1	20	
Surrogate: o-Terphenyl	41.8		g	50.0		83.5	59-131			
Matrix Spike Dup (4A09010-MSD2)					Source: X401083-02 Prepared: 01/09/2014 Analyzed: 01/09/2014					
Gasoline (C6-C10)	830	50.0	mg/kg	1000	ND	83.0	57-139	23.4	20	QR-02
Diesel (C10-C28)	892	50.0	"	1000	ND	89.2	53-125	19.7	20	
Residual Range Organics (C28-C36)	852	100	"	1000	55.8	79.6	47-133	21.7	20	QR-02
Surrogate: o-Terphenyl	44.4		g	50.0		88.7	59-131			

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.

Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014211290
Project: KMG - Bydalek 28C-20HZ

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 4A09008 - NO PREP										
Blank (4A09008-BLK1)					Prepared: 01/09/2014 Analyzed: 01/10/2014					
Specific Conductance (EC)	0.00180		mmhos/cm							
Duplicate (4A09008-DUP1)					Source: X401058-02 Prepared: 01/09/2014 Analyzed: 01/10/2014					
Specific Conductance (EC)	0.0800		mmhos/cm		0.0780			2.53	10	

Origins Laboratory, Inc.



Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014211290
Project: KMG - Bydalek 28C-20HZ

Metals by SW846 3050B/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1359202 - SW846 3050B										
BLANK (1203017179-BLK)					Prepared: 01/13/2014 Analyzed: 01/14/2014					
Arsenic	ND	2760	ug/kg		0		-			U
Barium	280	460	"		0		-			J
LCS (1203017180-BKS)					Prepared: 01/13/2014 Analyzed: 01/14/2014					
Arsenic	51400	2920	ug/kg	48700	0	106	80-120			
Barium	50700	487	"	48700	0	104	80-120			
DUP (1203017181 D)					Source: X401070-01		Prepared: 01/13/2014 Analyzed: 01/14/2014			
Arsenic	2860	3170	ug/kg dry		3040		0-20	6.00	20	J
Barium	139000	529	"		286000		0-20	69.2	20	
MS (1203017182 S)					Source: X401070-01		Prepared: 01/13/2014 Analyzed: 01/14/2014			
Barium	208000	506	ug/kg dry	50600	286000	ND	75-125			
Arsenic	55900	3030	"	50600	3040	105	75-125			

Origins Laboratory, Inc.



Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014211290
Project: KMG - Bydalek 28C-20HZ

pH by SW846 9045C/9045D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1359375 -										
DUP (1203017571 D)	Source: 341062003				Prepared: Analyzed: 01/11/2014					
pH	7.75	0.100	SU		7.72		0-10	0.388	10	H
DUP (1203017572 D)	Source: 341066001				Prepared: Analyzed: 01/11/2014					
pH	8.38	0.100	SU		8.13		0-10	3.03	10	H
LCS (1203017573-BKS)	Prepared: Analyzed: 01/11/2014									
pH	6.98	0.100	SU	7.00	0	99.7	99-101			
Batch 1359504 -										
DUP (1203017868 D)	Source: X401070-05				Prepared: Analyzed: 01/13/2014					
pH	7.82	0.100	SU		7.67		0-10	1.94	10	H
DUP (1203017869 D)	Source: 341081001				Prepared: Analyzed: 01/13/2014					
pH	8.10	0.100	SU		8.16		0-10	0.738	10	H
LCS (1203017870-BKS)	Prepared: Analyzed: 01/13/2014									
pH	7.05	0.100	SU	7.00	0	101	99-101			

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.

Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014211290
Project: KMG - Bydalek 28C-20HZ

TCLP Metals by 1311/3010A/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1359943 - SW846 3010A										
TB (1203017407-BLK)					Prepared: 01/14/2014 Analyzed: 01/14/2014					
Arsenic	ND	0.300	mg/L		0		-			U
MS (1203018196 S)					Source: 341048001 Prepared: 01/14/2014 Analyzed: 01/14/2014					
Arsenic	5.26	0.300	mg/L	5.00	<0.050	105	75-125			
BLANK (1203018925-BLK)					Prepared: 01/14/2014 Analyzed: 01/14/2014					
Arsenic	ND	0.300	mg/L		0		-			U
LCS (1203018926-BKS)					Prepared: 01/14/2014 Analyzed: 01/14/2014					
Arsenic	5.15	0.300	mg/L	5.00	0	103	80-120			
DUP (1203019094 D)					Source: 341048001 Prepared: 01/14/2014 Analyzed: 01/14/2014					
Arsenic	ND	0.300	mg/L		<0.050		0-20	NR	20	U

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.

Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014211290
Project: KMG - Bydalek 28C-20HZ

Notes and Definitions

- U Result not detected above the detection limit
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- J Greater than the detection limit but less than the reporting limit
- H Holding time exceeded
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

Origins Laboratory, Inc.



Noelle Doyle Mathis, President

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.