



March 13, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Adamson Ernie F GU #2X Project Number - 89101289

Attached are your analytical results for KMG - Adamson Ernie F GU #2X received by Origins Laboratory, Inc. March 06, 2018. This project is associated with Origins project number Y803112-01.

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

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 89101289

Project: KMG - Adamson Ernie F GU #2X

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH04-3/6/18	Y803112-01	Water	March 6, 2018 12:40	03/06/2018 16:30
BH05-3/6/18	Y803112-02	Water	March 6, 2018 12:25	03/06/2018 16:30
BH06-3/6/18	Y803112-03	Water	March 6, 2018 12:00	03/06/2018 16:30
BH07-3/6/18	Y803112-04	Water	March 6, 2018 12:55	03/06/2018 16:30
BH08-3/6/18	Y803112-05	Water	March 6, 2018 12:10	03/06/2018 16:30
BH10-3/6/18	Y803112-06	Water	March 6, 2018 13:10	03/06/2018 16:30

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #2X

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page 1 of 1

Y403112

ORIGINS
LABORATORY, INC

Client: ARC/Tasman Project Manager/Send Report To: Bob Cornez

Address: 6899 Pecos Street, Unit C, Denver, CO 80211 Email Address: rcornez@tasman-geo.com

Telephone Number: 979-255-4735 Project Name/Number: 89101289 / Adamson Ernie F

Samples Collected By: Max Garza

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
BH01-316/18	3/6/18	1240	3	X				X			Blank	1
BH05-316/18		1225										2
BH06-316/18		1200										3
BH07-316/18		1255										4
BH08-316/18		1210										5
BH10-316/18		1310										6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Max Garza	3/6/18	1630		3/6/18	1630	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
						48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>
						Standard <input checked="" type="checkbox"/>

Date Results Needed:

Comments:

7.8

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

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #2X

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y803112

Client: Tasman

Client Project ID: Adamson Ernie F GU #2X

Checklist Completed by: JG

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

Date/time completed: 3/7/18

Airbill #: 9110 N/A

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

Cooler Number/Temperature: 1 / 2.8 °C 1 / 1 °C 1 / 1 °C 1 / 1 °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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 checked="" type="checkbox"/>	<input 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) JG

Date/Time Reviewed 3/8/18

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #2X

BH04-3/6/18
3/6/2018 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803112-01 (Water)

BTEX by EPA 8260C

Benzene	50.6	4.00	ug/L	4	B8C0804	03/08/2018	03/08/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	402	4.00	"	"	"	"	"	
Xylenes, total	3230	20.0	"	20	"	"	03/09/2018	

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	03/08/2018	
Surrogate: Toluene-d8	95.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #2X

BH05-3/6/18
3/6/2018 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803112-02 (Water)

BTEX by EPA 8260C

Benzene	12.5	4.00	ug/L	4	B8C0804	03/08/2018	03/08/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	508	4.00	"	"	"	"	"	
Xylenes, total	2150	20.0	"	20	"	"	03/09/2018	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	03/08/2018	
Surrogate: Toluene-d8	92.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	84-114			"	"	03/09/2018	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #2X

BH06-3/6/18
3/6/2018 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803112-03 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8C0804	03/08/2018	03/08/2018	U
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	96.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #2X

BH07-3/6/18
3/6/2018 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803112-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C0804	03/08/2018	03/08/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	96.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	121 %	84-114			"	"	" S-04	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #2X

BH08-3/6/18
3/6/2018 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803112-05 (Water)

BTEX by EPA 8260C

Benzene	9.78	1.00	ug/L	1	B8C0804	03/08/2018	03/08/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	463	20.0	"	20	"	"	03/09/2018	
Xylenes, total	148	1.00	"	1	"	"	03/08/2018	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	89.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	84-114			"	"	03/09/2018	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #2X

BH10-3/6/18
3/6/2018 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803112-06 (Water)

BTEX by EPA 8260C

Benzene	980	50.0	ug/L	50	B8C0804	03/08/2018	03/09/2018
Toluene	512	50.0	"	"	"	"	"
Ethylbenzene	571	50.0	"	"	"	"	"
Xylenes, total	10200	50.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	98.1 %	84-121			"	"	03/08/2018
Surrogate: Toluene-d8	105 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114			"	"	03/09/2018

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #2X

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 B8C0804 - EPA 5030B (Water)										
Blank (B8C0804-BLK1)					Prepared: 03/08/2018 Analyzed: 03/08/2018					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102		84-121			
Surrogate: Toluene-d8	62		"	62.5	98.4		85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5	105		84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #2X

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8C0804 - EPA 5030B (Water)

LCS (B8C0804-BS1)

Prepared: 03/08/2018 Analyzed: 03/08/2018

Benzene	49.3	1.00	ug/L	50.0		98.6	73.3-129
Toluene	46.6	1.00	"	50.0		93.1	76.2-123
Ethylbenzene	47.8	1.00	"	50.0		95.6	73.6-130
m,p-Xylene	94.6	2.00	"	100		94.6	76.1-126
o-Xylene	47.4	1.00	"	50.0		94.9	76.6-124
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.9	84-121
Surrogate: Toluene-d8	61		"	62.5		97.9	85-115
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114

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6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #2X

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8C0804 - EPA 5030B (Water)

Matrix Spike (B8C0804-MS1)		Source: Y803093-05			Prepared: 03/08/2018 Analyzed: 03/08/2018					
Benzene	57.4	1.00	ug/L	50.0	ND	115	74-130			
Toluene	55.0	1.00	"	50.0	0.200	110	73-131			
Ethylbenzene	57.7	1.00	"	50.0	0.220	115	76-132			
m,p-Xylene	113	2.00	"	100	0.980	112	69-139			
o-Xylene	54.7	1.00	"	50.0	0.270	109	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.9	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.6	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #2X

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 B8C0804 - EPA 5030B (Water)

Matrix Spike Dup (B8C0804-MSD1)		Source: Y803093-05			Prepared: 03/08/2018 Analyzed: 03/08/2018					
Benzene	52.6	1.00	ug/L	50.0	ND	105	74-130	8.74	20	
Toluene	49.2	1.00	"	50.0	0.200	98.0	73-131	11.1	20	
Ethylbenzene	50.0	1.00	"	50.0	0.220	99.6	76-132	14.2	20	
m,p-Xylene	99.2	2.00	"	100	0.980	98.2	69-139	13.1	20	
o-Xylene	50.2	1.00	"	50.0	0.270	99.9	74-131	8.56	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.3	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.5	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 89101289

Project: KMG - Adamson Ernie F GU #2X

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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.



June 25, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Adamson Ernie F GU #X1 Project Number - 89101289

Attached are your analytical results for KMG - Adamson Ernie F GU #X1 received by Origins Laboratory, Inc. June 19, 2018. This project is associated with Origins project number Y806274-01.

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.
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o-squad@oelabinc.com



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 89101289

Project: KMG - Adamson Ernie F GU #X1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH04 - 061918	Y806274-01	Water	June 19, 2018 14:51	06/19/2018 16:55
BH05 - 061918	Y806274-02	Water	June 19, 2018 14:26	06/19/2018 16:55
BH06 - 061918	Y806274-03	Water	June 19, 2018 13:15	06/19/2018 16:55
BH07 - 061918	Y806274-04	Water	June 19, 2018 14:30	06/19/2018 16:55
BH08 - 061918	Y806274-05	Water	June 19, 2018 13:14	06/19/2018 16:55
BH10 - 061918	Y806274-06	Water	June 19, 2018 14:55	06/19/2018 16:55

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #X1

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page 1 of 1

Y200274

ORIGINS LABORATORY, INC

Client: APG/TSMAN Project Manager/Send Report To: Bob Cornez

Address: 6899 N Pecos Email Address: Cornez@Tasman-Geo.com

Denver CO 80221 Project Name/Number: Adamson Ernie F GU #X1/89101289

Telephone Number: 970-4816909 Samples Collected By: Max Delgado

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
B404 - 061918	6/19/18	1451	3	X	X			X		Box	1
B405 - 061918		1426									2
B406 - 061918		1315									3
B407 - 061918		1430									4
B408 - 061918		1314									5
B410 - 061918		1455									6
											7
											8
											9
											10
Relinquished By: <u>[Signature]</u>	Date: <u>6/19/18</u>	Time: <u>1655</u>	Time: <u>1655</u>	Received By: <u>[Signature]</u>	Date: <u>6/19/18</u>	Time: <u>1655</u>	Turnaround Time:				
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Same Day <input type="checkbox"/>		24 Hr <input type="checkbox"/>		
							48 Hr <input type="checkbox"/>		72 Hr <input type="checkbox"/>		
							Standard <input checked="" type="checkbox"/>				

Perla Basille Mandant

Comment

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #X1

BH04 - 061918
6/19/2018 2:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806274-01 (Water)

BTEX by EPA 8260C

Benzene	13.9	4.00	ug/L	4	B8F2103	06/21/2018	06/21/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	539	4.00	"	"	"	"	"	
Xylenes, total	5230	50.0	"	50	"	"	06/22/2018	

Surrogate: 1,2-Dichloroethane-d4	99.9 %	84-121			"	"	06/21/2018	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	84-114			"	"	"	

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #X1

BH05 - 061918
6/19/2018 2:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806274-02 (Water)

BTEX by EPA 8260C

Benzene	18.4	4.00	ug/L	4	B8F2103	06/21/2018	06/21/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	618	4.00	"	"	"	"	"	
Xylenes, total	3170	50.0	"	50	"	"	06/22/2018	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	84-121			"	"	06/21/2018	
Surrogate: Toluene-d8	99.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #X1

BH06 - 061918
6/19/2018 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806274-03 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8F2103	06/21/2018	06/21/2018	U
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	22.6	4.00	"	"	"	"	"	
Xylenes, total	171	4.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #X1

BH07 - 061918
6/19/2018 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806274-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F2103	06/21/2018	06/21/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	5.33	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	84-114			"	"	"	

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #X1

BH08 - 061918
6/19/2018 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806274-05 (Water)

BTEX by EPA 8260C

Benzene	58.2	1.00	ug/L	1	B8F2103	06/21/2018	06/21/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	317	10.0	"	10	"	"	06/22/2018	
Xylenes, total	305	1.00	"	1	"	"	06/21/2018	
Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #X1

BH10 - 061918
6/19/2018 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y806274-06 (Water)

BTEX by EPA 8260C

Benzene	1390	50.0	ug/L	50	B8F2103	06/21/2018	06/22/2018
Toluene	193	4.00	"	4	"	"	06/22/2018
Ethylbenzene	272	4.00	"	"	"	"	"
Xylenes, total	10400	50.0	"	50	"	"	06/22/2018
Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121			"	"	06/22/2018
Surrogate: Toluene-d8	102 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	84-114			"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #X1

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 B8F2103 - EPA 5030B (Water)										
Blank (B8F2103-BLK1)					Prepared: 06/21/2018 Analyzed: 06/21/2018					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	101		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.9		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.1		84-114			

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #X1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8F2103 - EPA 5030B (Water)

LCS (B8F2103-BS1)

Prepared: 06/21/2018 Analyzed: 06/21/2018

Benzene	53.9	1.00	ug/L	50.0	108	73.3-129
Toluene	56.1	1.00	"	50.0	112	76.2-123
Ethylbenzene	58.3	1.00	"	50.0	117	73.6-130
m,p-Xylene	118	2.00	"	100	118	76.1-126
o-Xylene	54.5	1.00	"	50.0	109	76.6-124
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	97.8	84-121
Surrogate: Toluene-d8	63		"	62.5	101	85-115
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.5	84-114

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #X1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8F2103 - EPA 5030B (Water)

Matrix Spike (B8F2103-MS1)		Source: Y806271-01			Prepared: 06/21/2018 Analyzed: 06/21/2018					
Benzene	57.7	1.00	ug/L	50.0	3.37	109	74-130			
Toluene	59.5	1.00	"	50.0	3.13	113	73-131			
Ethylbenzene	60.7	1.00	"	50.0	0.970	120	76-132			
m,p-Xylene	126	2.00	"	100	5.23	121	69-139			
o-Xylene	57.4	1.00	"	50.0	0.950	113	74-131			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.5	84-121			
Surrogate: Toluene-d8	62		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	84-114			

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #X1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8F2103 - EPA 5030B (Water)

Matrix Spike Dup (B8F2103-MSD1)		Source: Y806271-01			Prepared: 06/21/2018 Analyzed: 06/21/2018					
Benzene	49.1	1.00	ug/L	50.0	3.37	91.5	74-130	16.1	20	
Toluene	51.5	1.00	"	50.0	3.13	96.7	73-131	14.5	20	
Ethylbenzene	51.3	1.00	"	50.0	0.970	101	76-132	16.8	20	
m,p-Xylene	107	2.00	"	100	5.23	102	69-139	16.4	20	
o-Xylene	49.8	1.00	"	50.0	0.950	97.8	74-131	14.2	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.0	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	84-114			

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.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 89101289

Project: KMG - Adamson Ernie F GU #X1

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President



August 30, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Adamson Ernie F GU #1X Project Number - [none]

Attached are your analytical results for KMG - Adamson Ernie F GU #1X received by Origins Laboratory, Inc. August 24, 2018. This project is associated with Origins project number Y808370-01.

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

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Adamson Ernie F GU #1X

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH09R	Y808370-01	Water	August 24, 2018 11:00	08/24/2018 16:01
BH11	Y808370-02	Water	August 24, 2018 10:34	08/24/2018 16:01
BH12	Y808370-03	Water	August 24, 2018 11:16	08/24/2018 16:01
BH13	Y808370-04	Water	August 24, 2018 11:33	08/24/2018 16:01
BH14	Y808370-05	Water	August 24, 2018 11:31	08/24/2018 16:01
BH15	Y808370-06	Water	August 24, 2018 11:14	08/24/2018 16:01
BH16	Y808370-07	Water	August 24, 2018 10:40	08/24/2018 16:01
BH17	Y808370-08	Water	August 24, 2018 10:55	08/24/2018 16:01

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.

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

ORIGINS
LABORATORY, INC

Client: APC/Tasman Project Manager/Send Report To: Bob Corneez

Address: 6879 n Peos Email Address: B.Corneez@tasman-gpo.com

Denver CO, 80441 Project Name/Number: Adamsen-Emmie Field #1X18910189

Telephone Number: 815-977-8348 Samples Collected By: Alison Dahl

www.originslaboratory.com

page 1 of 1

Y468370

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis/Method	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other			
BH01R	8-24-2018	1100	5	X	X			X				OTEX	1	
BH11		1034											2	
BH12		1116											3	
BH13		1133											4	
BH14		1131											5	
BH15		1114											6	
BH16		1640											7	
BH17		1055											8	
													9	
													10	
Relinquished By: <i>W. J. Dan</i>	Date: 8-24-2018	Time:	Received By: <i>[Signature]</i>	Date: 8/24/18	Time: 11:50	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/>								
Relinquished By:	Date:	Time:	Received By:	Date:	Time:									

Origins Laboratory, Inc.

Jeff Pellipini

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y800370

Client: Tasman

Client Project ID: KMG - Adamson Ernie F GU

Checklist Completed by: JG

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

Airbill #: N/A

Date/time completed: 8/27/2018

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

Cooler Number/Temperature: 1 23 °C / °C / °C / °C (Describe)

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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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 checked="" type="checkbox"/>	<input 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) JG

Date/Time Reviewed 8/28/18

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH09R

8/24/2018 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808370-01 (Water)

BTEX by EPA 8260C

Benzene	811	50.0	ug/L	50	B8H2705	KDK	08/27/2018	08/28/2018	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	1010	50.0	"	"	"	KDK	"	"	
Xylenes, total	9240	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.3 %	84-121	"	"	"	"	"	"
Surrogate: Toluene-d8	99.9 %	85-115	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114	"	"	"	"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH11

8/24/2018 10:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808370-02 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8H2705	KDK	08/27/2018	08/28/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	15.7	4.00	"	"	"	KDK	"	"	
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	84-114	"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH12

8/24/2018 11:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808370-03 (Water)

BTEX by EPA 8260C

Benzene	212	4.00	ug/L	4	B8H2705	KDK	08/27/2018	08/28/2018	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	602	4.00	"	"	"	KDK	"	"	
Xylenes, total	6220	50.0	"	50	"	KDK	"	08/29/2018	

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"		08/28/2018	
Surrogate: Toluene-d8	102 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.8 %	84-114			"	"		"	

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH13

8/24/2018 11:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808370-04 (Water)

BTEX by EPA 8260C

Benzene	395	4.00	ug/L	4	B8H2705	KDK	08/27/2018	08/28/2018	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	1260	100	"	100	"	KDK	"	08/29/2018	
Xylenes, total	15500	100	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.9 %	84-121			"	"	08/28/2018
Surrogate: Toluene-d8	101 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	99.8 %	84-114			"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH14

8/24/2018 11:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808370-05 (Water)

BTEX by EPA 8260C

Benzene	6810	100	ug/L	100	B8H2705	KDK	08/27/2018	08/29/2018
Toluene	15000	100	"	"	"	KDK	"	"
Ethylbenzene	2040	100	"	"	"	KDK	"	"
Xylenes, total	29500	100	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	99.7 %	84-121			"	"	"
Surrogate: Toluene-d8	105 %	85-115			"	"	08/28/2018
Surrogate: 4-Bromofluorobenzene	99.3 %	84-114			"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH15

8/24/2018 11:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808370-06 (Water)

BTEX by EPA 8260C

Benzene	257	4.00	ug/L	4	B8H2705	KDK	08/27/2018	08/28/2018
Toluene	6.92	4.00	"	"	"	KDK	"	"
Ethylbenzene	294	4.00	"	"	"	KDK	"	"
Xylenes, total	220	4.00	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	99.8 %	84-121	"	"	"	"	"
Surrogate: Toluene-d8	99.5 %	85-115	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114	"	"	"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH16

8/24/2018 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808370-07 (Water)

BTEX by EPA 8260C

Benzene	5.36	4.00	ug/L	4	B8H2705	KDK	08/27/2018	08/28/2018	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	394	4.00	"	"	"	KDK	"	"	
Xylenes, total	2720	50.0	"	50	"	KDK	"	08/29/2018	

Surrogate: 1,2-Dichloroethane-d4	99.6 %	84-121			"	"		08/28/2018	
Surrogate: Toluene-d8	100 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"		"	

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH17

8/24/2018 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808370-08 (Water)

BTEX by EPA 8260C

Benzene	192	4.00	ug/L	4	B8H2705	KDK	08/27/2018	08/28/2018	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	352	4.00	"	"	"	KDK	"	"	
Xylenes, total	1290	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	99.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114	"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8H2705 - EPA 5030B (Water)

Blank (B8H2705-BLK1)

Prepared: 08/27/2018 Analyzed: 08/28/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102		84-121			
Surrogate: Toluene-d8	62		"	62.5	98.7		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	100		84-114			

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8H2705 - EPA 5030B (Water)

LCS (B8H2705-BS1)

Prepared: 08/27/2018 Analyzed: 08/28/2018

Benzene	52.3	1.00	ug/L	50.0		105	73.3-129			
Toluene	51.8	1.00	"	50.0		104	76.2-123			
Ethylbenzene	53.3	1.00	"	50.0		107	73.6-130			
m,p-Xylene	101	2.00	"	100		101	76.1-126			
o-Xylene	48.4	1.00	"	50.0		96.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	84-114			

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

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 B8H2705 - EPA 5030B (Water)

Matrix Spike (B8H2705-MS1)		Source: Y808380-01			Prepared: 08/27/2018 Analyzed: 08/28/2018					
Benzene	45.4	1.00	ug/L	50.0	ND	90.9	74-130			
Toluene	45.6	1.00	"	50.0	0.160	90.9	73-131			
Ethylbenzene	45.9	1.00	"	50.0	0.170	91.5	76-132			
m,p-Xylene	90.9	2.00	"	100	1.31	89.6	69-139			
o-Xylene	45.6	1.00	"	50.0	ND	91.1	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.3	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.7	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	84-114			

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

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 B8H2705 - EPA 5030B (Water)

Matrix Spike Dup (B8H2705-MSD1)		Source: Y808380-01			Prepared: 08/27/2018 Analyzed: 08/28/2018					
Benzene	44.8	1.00	ug/L	50.0	ND	89.6	74-130	1.42	20	
Toluene	44.7	1.00	"	50.0	0.160	89.2	73-131	1.88	20	
Ethylbenzene	45.3	1.00	"	50.0	0.170	90.2	76-132	1.45	20	
m,p-Xylene	89.3	2.00	"	100	1.31	88.0	69-139	1.75	20	
o-Xylene	45.7	1.00	"	50.0	ND	91.4	74-131	0.285	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.8	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Adamson Ernie F GU #1X

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President



October 01, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Adamson Ernie F GU #1X Project Number - [none]

Attached are your analytical results for KMG - Adamson Ernie F GU #1X received by Origins Laboratory, Inc. September 26, 2018. This project is associated with Origins project number Y809370-01.

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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH04-092618	Y809370-01	Water	September 26, 2018 11:25	09/26/2018 17:13
BH05-092618	Y809370-02	Water	September 26, 2018 11:35	09/26/2018 17:13
BH06-092618	Y809370-03	Water	September 26, 2018 11:00	09/26/2018 17:13
BH07-092618	Y809370-04	Water	September 26, 2018 11:15	09/26/2018 17:13
BH08-092618	Y809370-05	Water	September 26, 2018 12:10	09/26/2018 17:13
BH09R-092618	Y809370-06	Water	September 26, 2018 12:20	09/26/2018 17:13
BH10-092618	Y809370-07	Water	September 26, 2018 13:10	09/26/2018 17:13
BH11-092618	Y809370-08	Water	September 26, 2018 10:40	09/26/2018 17:13
BH12-092618	Y809370-09	Water	September 26, 2018 12:45	09/26/2018 17:13
BH13-092618	Y809370-10	Water	September 26, 2018 13:00	09/26/2018 17:13
BH14-092618	Y809370-11	Water	September 26, 2018 13:20	09/26/2018 17:13
BH15-092618	Y809370-12	Water	September 26, 2018 12:30	09/26/2018 17:13
BH16-092618	Y809370-13	Water	September 26, 2018 11:45	09/26/2018 17:13
BH17-092618	Y809370-14	Water	September 26, 2018 12:00	09/26/2018 17:13

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.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Adamson Ernie F GU #1X

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.

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

ORIGINS
LABORATORY, INC

Client: APC / TASHMAN

Address: _____

Telephone Number: 9704816909

Project Manager/Send Report To: Robert Carver

Email Address: RCarver2@TSMa-Geo.Com




Project Name/Number: Adamsen Eric FGU#1X / 88101289

Samples Collected By: Max Delligda

www.originslaboratory.com

page 1 of 2

V405370

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative						Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other			
BH04-092618	9/26/18	1125	3	X	X			X					BTEX	1
BH05-092618		1135	1	X	X									2
BH06-092618		1100	1	X	X									3
BH07-092618		1115	1	X	X									4
BH08-092618		1210	1	X	X									5
BH09-092618		1220	1	X	X									6
BH10-092618		1310	1	X										7
BH11-092618		1040	1	X	X									8
BH12-092618		1245	1	X	X									9
BH13-092618		1300	1	X	X									10
Reinquished By: 	Date: 9/26/18		Time: 1713	Received By: 				Date:	Time:	Turnaround Time: Same Day: <input type="checkbox"/> 24 Hr: <input type="checkbox"/> 48 Hr: <input type="checkbox"/> 72 Hr: <input type="checkbox"/> Standard <input checked="" type="checkbox"/>				
Reinquished By: 	Date:		Time:	Received By:				Date:	Time:					

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

Origins Laboratory, Inc.

Jose 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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

ORIGINS LABORATORY, INC

www.originslaboratory.com

Y805370

page 2 of 2

Client: APC/TASMAN

Project Manager/Send Report To: _____

Address: _____

Email Address: _____

Project Name/Number: Adamson Ernie F GU #1X / 81101289

Telephone Number: _____

Samples Collected By: _____

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
BH4-092618	9/26/18	1320	3	X				X			BTEX	1
BH5-092618		1230		X								2
BH6-092618		1145		X								3
BH7-092618		1200		X								4
B												5
												6
												7
												8
												9
												10

Relinquished By: [Signature] Date: 9/26/18 Time: 1713

Received By: [Signature] Date: 9/26/18 Time: 1713

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

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

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y809370

Client: Tasman

Client Project ID: KMG-Adamson Ernie F 6U

Checklist Completed by: JG

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

Date/time completed: 9/27/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.7 °C / °C / °C / °C (Describe)

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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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 checked="" type="checkbox"/>	<input 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) JD

Date/Time Reviewed 9/28/18

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH04-092618

9/26/2018 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-01 (Water)

BTEX by EPA 8260C

Benzene	10.8	4.00	ug/L	4	B812707	KDK	09/27/2018	09/28/2018	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	70.3	4.00	"	"	"	KDK	"	"	
Xylenes, total	213	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.3 %	84-121			"	"	09/27/2018
Surrogate: Toluene-d8	106 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	95.8 %	84-114			"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH05-092618

9/26/2018 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-02 (Water)

BTEX by EPA 8260C

Benzene	44.0	10.0	ug/L	10	B8I2707	JTD	09/27/2018	09/27/2018	
Toluene	ND	10.0	"	"	"	JTD	"	"	U
Ethylbenzene	615	10.0	"	"	"	JTD	"	"	
Xylenes, total	3000	10.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.7 %	84-121	"	"	"
Surrogate: Toluene-d8	97.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.6 %	84-114	"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH06-092618

9/26/2018 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B812707	JTD	09/27/2018	09/27/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	27.3	1.00	"	"	"	JTD	"	"	
Xylenes, total	188	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.9 %	84-121	"	"	"
Surrogate: Toluene-d8	98.0 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114	"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH07-092618

9/26/2018 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B812707	JTD	09/27/2018	09/27/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.9 %	84-121	"	"	"
Surrogate: Toluene-d8	106 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	94.5 %	84-114	"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH08-092618

9/26/2018 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-05 (Water)

BTEX by EPA 8260C

Benzene	424	10.0	ug/L	10	B8I2707	JTD	09/27/2018	09/27/2018	
Toluene	ND	10.0	"	"	"	JTD	"	"	U
Ethylbenzene	1030	10.0	"	"	"	JTD	"	"	
Xylenes, total	7220	50.0	"	50	"	KDK	"	09/28/2018	

Surrogate: 1,2-Dichloroethane-d4	93.0 %	84-121			"	"	09/27/2018
Surrogate: Toluene-d8	104 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	95.0 %	84-114			"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH09R-092618

9/26/2018 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-06 (Water)

BTEX by EPA 8260C

Benzene	950	50.0	ug/L	50	B812707	JTD	09/27/2018	09/27/2018	
Toluene	ND	50.0	"	"	"	JTD	"	"	U
Ethylbenzene	1240	50.0	"	"	"	JTD	"	"	
Xylenes, total	11300	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.8 %	84-121	"	"	"
Surrogate: Toluene-d8	105 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	95.3 %	84-114	"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH10-092618

9/26/2018 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-07 (Water)

BTEX by EPA 8260C

Benzene	2720	50.0	ug/L	50	B812707	JTD	09/27/2018	09/27/2018	
Toluene	ND	50.0	"	"	"	JTD	"	"	U
Ethylbenzene	595	50.0	"	"	"	JTD	"	"	
Xylenes, total	12100	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.0 %	84-121	"	"	"
Surrogate: Toluene-d8	98.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	84-114	"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH11-092618

9/26/2018 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-08 (Water)

BTEX by EPA 8260C

Benzene	2.36	1.00	ug/L	1	B8I2707	JTD	09/27/2018	09/27/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.4 %	84-121			"	"	"
Surrogate: Toluene-d8	105 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	92.4 %	84-114			"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH12-092618

9/26/2018 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-09 (Water)

BTEX by EPA 8260C

Benzene	221	4.00	ug/L	4	B812707	JTD	09/27/2018	09/27/2018	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	722	4.00	"	"	"	JTD	"	"	
Xylenes, total	3440	20.0	"	20	"	KDK	"	09/28/2018	

Surrogate: 1,2-Dichloroethane-d4	93.2 %	84-121			"	"	09/27/2018
Surrogate: Toluene-d8	95.0 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	84-114			"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH13-092618

9/26/2018 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-10 (Water)

BTEX by EPA 8260C

Benzene	410	50.0	ug/L	50	B812707	JTD	09/27/2018	09/27/2018	
Toluene	ND	50.0	"	"	"	JTD	"	"	U
Ethylbenzene	1710	50.0	"	"	"	JTD	"	"	
Xylenes, total	18700	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.9 %	84-121	"	"	"
Surrogate: Toluene-d8	106 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	92.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH14-092618

9/26/2018 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-11 (Water)

BTEX by EPA 8260C

Benzene	2430	100	ug/L	100	B812707	JTD	09/27/2018	09/27/2018
Toluene	8980	100	"	"	"	JTD	"	"
Ethylbenzene	2680	100	"	"	"	JTD	"	"
Xylenes, total	38500	100	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	93.5 %	84-121	"	"	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114	"	"	"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH15-092618

9/26/2018 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-12 (Water)

BTEX by EPA 8260C

Benzene	346	4.00	ug/L	4	B8I2707	JTD	09/27/2018	09/27/2018	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	510	4.00	"	"	"	JTD	"	"	
Xylenes, total	1120	4.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.4 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.2 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH16-092618

9/26/2018 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-13 (Water)

BTEX by EPA 8260C

Benzene	10.5	4.00	ug/L	4	B812707	JTD	09/27/2018	09/28/2018	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	104	4.00	"	"	"	JTD	"	"	
Xylenes, total	48.0	4.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.6 %	84-121	"	"	"
Surrogate: Toluene-d8	105 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	92.3 %	84-114	"	"	"

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

BH17-092618

9/26/2018 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y809370-14 (Water)

BTEX by EPA 8260C

Benzene	221	10.0	ug/L	10	B8I2707	JTD	09/27/2018	09/27/2018	
Toluene	ND	10.0	"	"	"	JTD	"	"	U
Ethylbenzene	323	10.0	"	"	"	JTD	"	"	
Xylenes, total	990	10.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.8 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	93.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8I2707 - EPA 5030B (Water)

Blank (B8I2707-BLK1)

Prepared: 09/27/2018 Analyzed: 09/27/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	96.6		84-121			
Surrogate: Toluene-d8	66		"	62.5	105		85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	95.4		84-114			

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.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8I2707 - EPA 5030B (Water)

LCS (B8I2707-BS1)

Prepared: 09/27/2018 Analyzed: 09/27/2018

Benzene	47.4	1.00	ug/L	50.0		94.9	73.3-129			
Toluene	43.4	1.00	"	50.0		86.8	76.2-123			
Ethylbenzene	48.7	1.00	"	50.0		97.4	73.6-130			
m,p-Xylene	98.1	2.00	"	100		98.1	76.1-126			
o-Xylene	49.4	1.00	"	50.0		98.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	60		"	62.5		95.7	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8I2707 - EPA 5030B (Water)

Matrix Spike (B8I2707-MS1)		Source: Y809370-04			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Benzene	54.0	1.00	ug/L	50.0	ND	108	74-130			
Toluene	55.7	1.00	"	50.0	ND	111	73-131			
Ethylbenzene	58.6	1.00	"	50.0	0.100	117	76-132			
m,p-Xylene	116	2.00	"	100	ND	116	69-139			
o-Xylene	52.8	1.00	"	50.0	ND	106	74-131			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	66		"	62.5		105	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Adamson Ernie F GU #1X

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8I2707 - EPA 5030B (Water)

Matrix Spike Dup (B8I2707-MSD1)		Source: Y809370-04			Prepared: 09/27/2018 Analyzed: 09/27/2018					
Benzene	54.2	1.00	ug/L	50.0	ND	108	74-130	0.388	20	
Toluene	49.1	1.00	"	50.0	ND	98.2	73-131	12.7	20	
Ethylbenzene	62.1	1.00	"	50.0	0.100	124	76-132	5.78	20	
m,p-Xylene	123	2.00	"	100	ND	123	69-139	5.88	20	
o-Xylene	58.6	1.00	"	50.0	ND	117	74-131	10.5	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.9	84-121			
Surrogate: Toluene-d8	56		"	62.5		89.2	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Adamson Ernie F GU #1X

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President