

December 11, 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. December 05, 2018. This project is associated with Origins project number Y812061-01.

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



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 - 120518	Y812061-01	Water	December 5, 2018 13:22	12/05/2018 16:30
BH05 - 120518	Y812061-02	Water	December 5, 2018 14:20	12/05/2018 16:30
BH06 - 120518	Y812061-03	Water	December 5, 2018 13:03	12/05/2018 16:30
BH07 - 120518	Y812061-04	Water	December 5, 2018 13:00	12/05/2018 16:30
BH08 - 120518	Y812061-05	Water	December 5, 2018 13:46	12/05/2018 16:30
BH09R - 120518	Y812061-06	Water	December 5, 2018 14:04	12/05/2018 16:30
BH10 - 120518	Y812061-07	Water	December 5, 2018 14:23	12/05/2018 16:30
BH11 - 120518	Y812061-08	Water	December 5, 2018 12:36	12/05/2018 16:30
BH12 - 120518	Y812061-09	Water	December 5, 2018 14:00	12/05/2018 16:30
BH13 - 120518	Y812061-10	Water	December 5, 2018 14:32	12/05/2018 16:30
BH14 - 120518	Y812061-11	Water	December 5, 2018 14:39	12/05/2018 16:30
BH15 - 120518	Y812061-12	Water	December 5, 2018 13:44	12/05/2018 16:30
BH16 - 120518	Y812061-13	Water	December 5, 2018 12:48	12/05/2018 16:30
BH17 - 120518	Y812061-14	Water	December 5, 2018 13:26	12/05/2018 16:30

Origins Laboratory, Inc.



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

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.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

www.originslaboratory.com

page 2 of 2

192061

ORIGINS
LABORATORY, INC

Client: APC / Tasman
 Project Manager/Send Report To: Bob Cornez
 Email Address: rcornez@tasman-geo.com
 Project Name/Number: Adamson Ernie F GU #1X/89101289
 Samples Collected By: Alison Dahl, Brian Gabel

Address: 6899 N Pecos St
 Denver CO 80221
 Telephone Number: 815-979-8348

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	Groundwater	Soil	Air Summa Container #		
BH14-120518	12/05/18	1439	3	X			X			BTEX	1
BH15-120518		1344									2
BH16-120518		1248									3
BH17-120518		1326									4
											5
											6
											7
											8
											9
											10
Reinquished by: <i>Bob Cornez</i>	Date: 12/05/18	Time: 1630	Received by: <i>[Signature]</i>	Date: 12/15/18	Time: 1630	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard					
Reinquished by:	Date:	Time:	Received by:	Date:	Time:						

Comment: Data Describe Naardark

Origins Laboratory, Inc.

Jefe Pellegrini

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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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y812061

Client: Tasman
 Client Project ID: KMG - Adamson Ernie F GU #1

Checklist Completed by: JG

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

Date/time completed: 12/16/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.4 °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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ^{(1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 12/16/18

Origins Laboratory, Inc.

Jefe Pellegrini

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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

BH04 - 120518
12/5/2018 1:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-01 (Water)

BTEX by EPA 8260C

Benzene	13.9	1.00	ug/L	1	B8L0604	KDK	12/06/2018	12/07/2018	
Toluene	1.04	1.00	"	"	"	KDK	"	"	
Ethylbenzene	309	100	"	100	"	KDK	"	"	
Xylenes, total	2080	100	"	"	"	JTT	"	12/10/2018	

Surrogate: 1,2-Dichloroethane-d4	98.3 %	84-121			"	"		12/07/2018	
Surrogate: Toluene-d8	104 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.9 %	84-114			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences
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 Denver CO 80211

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

BH05 - 120518
12/5/2018 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-02 (Water)

BTEX by EPA 8260C

Benzene	15.5	1.00	ug/L	1	B8L0604	KDK	12/06/2018	12/07/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	316	10.0	"	10	"	JTT	"	12/10/2018	
Xylenes, total	442	10.0	"	"	"	JTT	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.1 %	84-121			"	"		12/07/2018	
Surrogate: Toluene-d8	103 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	101 %	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

BH06 - 120518
12/5/2018 1:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L0604	KDK	12/06/2018	12/07/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	5.02	1.00	"	"	"	KDK	"	"	
Xylenes, total	38.2	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.8 %	84-121			"	"	"		
Surrogate: Toluene-d8	102 %	85-115			"	"	"		
Surrogate: 4-Bromofluorobenzene	100 %	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

BH07 - 120518
12/5/2018 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L0604	KDK	12/06/2018	12/07/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.98	1.00	"	"	"	KDK	"	"	
Xylenes, total	22.7	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.7 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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

BH08 - 120518
12/5/2018 1:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-05 (Water)

BTEX by EPA 8260C

Benzene	7.34	1.00	ug/L	1	B8L0604	KDK	12/06/2018	12/07/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	516	10.0	"	10	"	JTT	"	12/10/2018	
Xylenes, total	396	10.0	"	"	"	KDK	"	12/07/2018	

Surrogate: 1,2-Dichloroethane-d4	96.9 %	84-121			"	"		"	
Surrogate: Toluene-d8	104 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	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

BH09R - 120518
12/5/2018 2:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-06 (Water)

BTEX by EPA 8260C

Benzene	762	200	ug/L	200	B8L0604	JTT	12/06/2018	12/10/2018	
Toluene	ND	1.00	"	1	"	JTT	"	"	U
Ethylbenzene	1170	200	"	200	"	JTT	"	"	
Xylenes, total	11200	200	"	"	"	JTT	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.5 %	84-121			"	"		12/07/2018	
Surrogate: Toluene-d8	108 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	101 %	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

BH10 - 120518
12/5/2018 2:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-07 (Water)

BTEX by EPA 8260C

Benzene	1160	100	ug/L	100	B8L0604	KDK	12/06/2018	12/07/2018	
Toluene	154	100	"	"	"	KDK	"	"	
Ethylbenzene	854	100	"	"	"	KDK	"	"	
Xylenes, total	11100	100	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.5 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	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

BH11 - 120518
12/5/2018 12:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-08 (Water)

BTEX by EPA 8260C

Benzene	441	100	ug/L	100	B8L0604	JTT	12/06/2018	12/10/2018	
Toluene	ND	1.00	"	1	"	KDK	"	12/07/2018	U
Ethylbenzene	715	100	"	100	"	JTT	"	12/10/2018	
Xylenes, total	2000	100	"	"	"	JTT	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.2 %	84-121			"	"		12/07/2018	
Surrogate: Toluene-d8	102 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	97.9 %	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

BH12 - 120518
12/5/2018 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-09 (Water)

BTEX by EPA 8260C

Benzene	604	4.00	ug/L	4	B8L0604	KDK	12/06/2018	12/07/2018	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	1140	200	"	200	"	JTT	"	12/10/2018	
Xylenes, total	10300	200	"	"	"	JTT	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.7 %	84-121			"	"		12/07/2018	
Surrogate: Toluene-d8	101 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	96.6 %	84-114			"	"		"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH13 - 120518
12/5/2018 2:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-10 (Water)

BTEX by EPA 8260C

Benzene	506	200	ug/L	200	B8L0604	JTT	12/06/2018	12/10/2018	
Toluene	ND	1.00	"	1	"	JTT	"	"	U
Ethylbenzene	1640	200	"	200	"	JTT	"	"	
Xylenes, total	19200	200	"	"	"	JTT	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.4 %	84-121			"	"		12/07/2018	
Surrogate: Toluene-d8	107 %	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: [none]
 Project: KMG - Adamson Ernie F GU #1X

BH14 - 120518
12/5/2018 2:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-11 (Water)

BTEX by EPA 8260C

Benzene	7060	500	ug/L	500	B8L0604	JTT	12/06/2018	12/10/2018	
Toluene	20600	500	"	"	"	JTT	"	"	
Ethylbenzene	1760	500	"	"	"	JTT	"	"	
Xylenes, total	27800	500	"	"	"	JTT	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.7 %	84-121			"	"		12/07/2018	
Surrogate: Toluene-d8	106 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.1 %	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

BH15 - 120518
12/5/2018 1:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-12 (Water)

BTEX by EPA 8260C

Benzene	250	50.0	ug/L	50	B8L0604	JTT	12/06/2018	12/10/2018	
Toluene	1.98	1.00	"	1	"	KDK	"	12/07/2018	
Ethylbenzene	480	50.0	"	50	"	JTT	"	12/10/2018	
Xylenes, total	980	50.0	"	"	"	JTT	"	"	
Surrogate: 1,2-Dichloroethane-d4	95.0 %			84-121		"	"	12/07/2018	
Surrogate: Toluene-d8	103 %			85-115		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			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 - 120518
12/5/2018 12:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-13 (Water)

BTEX by EPA 8260C

Benzene	3.48	1.00	ug/L	1	B8L0604	KDK	12/06/2018	12/07/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	264	10.0	"	10	"	JTT	"	12/10/2018	
Xylenes, total	312	10.0	"	"	"	JTT	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.7 %	84-121			"	"		12/07/2018	
Surrogate: Toluene-d8	102 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.3 %	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

BH17 - 120518
12/5/2018 1:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812061-14 (Water)

BTEX by EPA 8260C

Benzene	18.0	1.00	ug/L	1	B8L0604	KDK	12/06/2018	12/07/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	11.8	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.7 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	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

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 B8L0604 - EPA 5030B (Water)

Blank (B8L0604-BLK1)

Prepared: 12/06/2018 Analyzed: 12/06/2018

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	62		"	62.5	99.0		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.3		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 B8L0604 - EPA 5030B (Water)

Blank (B8L0604-BLK2)

Prepared: 12/06/2018 Analyzed: 12/06/2018

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	62		"	62.5		99.0	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	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 B8L0604 - EPA 5030B (Water)

LCS (B8L0604-BS1)

Prepared: 12/06/2018 Analyzed: 12/06/2018

Benzene	48.4	1.00	ug/L	50.0		96.8	73.3-129			
Toluene	50.2	1.00	"	50.0		100	76.2-123			
Ethylbenzene	49.2	1.00	"	50.0		98.4	73.6-130			
m,p-Xylene	97.9	2.00	"	100		97.9	76.1-126			
o-Xylene	49.9	1.00	"	50.0		99.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.8	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.4	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 B8L0604 - EPA 5030B (Water)

LCS (B8L0604-BS2)

Prepared: 12/06/2018 Analyzed: 12/06/2018

Benzene	48.4	1.00	ug/L	50.0		96.7	73.3-129			
Toluene	50.4	1.00	"	50.0		101	76.2-123			
Ethylbenzene	49.5	1.00	"	50.0		99.0	73.6-130			
m,p-Xylene	99.1	2.00	"	100		99.1	76.1-126			
o-Xylene	50.1	1.00	"	50.0		100	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.4	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		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

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 B8L0604 - EPA 5030B (Water)

Matrix Spike (B8L0604-MS1)	Source: Y812058-01			Prepared: 12/06/2018 Analyzed: 12/06/2018						
Benzene	45.0	1.00	ug/L	50.0	ND	89.9	74-130			
Toluene	47.2	1.00	"	50.0	ND	94.4	73-131			
Ethylbenzene	45.6	1.00	"	50.0	ND	91.3	76-132			
m,p-Xylene	91.5	2.00	"	100	ND	91.5	69-139			
o-Xylene	47.3	1.00	"	50.0	ND	94.6	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.6	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	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 B8L0604 - EPA 5030B (Water)

Matrix Spike (B8L0604-MS2)	Source: Y812058-02			Prepared: 12/06/2018 Analyzed: 12/06/2018						
Benzene	46.8	1.00	ug/L	50.0	0.480	92.7	74-130			
Toluene	48.3	1.00	"	50.0	ND	96.5	73-131			
Ethylbenzene	47.2	1.00	"	50.0	ND	94.4	76-132			
m,p-Xylene	94.1	2.00	"	100	ND	94.1	69-139			
o-Xylene	48.9	1.00	"	50.0	ND	97.8	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.6	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	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 B8L0604 - EPA 5030B (Water)

Matrix Spike Dup (B8L0604-MSD1)	Source: Y812058-01			Prepared: 12/06/2018 Analyzed: 12/06/2018						
Benzene	46.7	1.00	ug/L	50.0	ND	93.4	74-130	3.75	20	
Toluene	48.8	1.00	"	50.0	ND	97.5	73-131	3.23	20	
Ethylbenzene	47.6	1.00	"	50.0	ND	95.3	76-132	4.29	20	
m,p-Xylene	95.4	2.00	"	100	ND	95.4	69-139	4.13	20	
o-Xylene	49.5	1.00	"	50.0	ND	99.0	74-131	4.48	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.9	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	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

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 B8L0604 - EPA 5030B (Water)

Matrix Spike Dup (B8L0604-MSD2)	Source: Y812058-02			Prepared: 12/06/2018 Analyzed: 12/06/2018						
Benzene	48.6	1.00	ug/L	50.0	0.480	96.2	74-130	3.63	20	
Toluene	49.4	1.00	"	50.0	ND	98.9	73-131	2.44	20	
Ethylbenzene	48.6	1.00	"	50.0	ND	97.2	76-132	2.90	20	
m,p-Xylene	96.8	2.00	"	100	ND	96.8	69-139	2.83	20	
o-Xylene	50.3	1.00	"	50.0	ND	101	74-131	2.84	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.7	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	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.

March 22, 2019

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 18, 2019. This project is associated with Origins project number Y903213-01.

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



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 - 031819	Y903213-01	Water	March 18, 2019 11:10	03/18/2019 16:30
BH05 - 031819	Y903213-02	Water	March 18, 2019 11:30	03/18/2019 16:30
BH06 - 031819	Y903213-03	Water	March 18, 2019 10:35	03/18/2019 16:30
BH07 - 031819	Y903213-04	Water	March 18, 2019 10:50	03/18/2019 16:30
BH08 - 031819	Y903213-05	Water	March 18, 2019 11:05	03/18/2019 16:30
BH09R - 031819	Y903213-06	Water	March 18, 2019 12:10	03/18/2019 16:30
BH10 - 031819	Y903213-07	Water	March 18, 2019 12:30	03/18/2019 16:30
BH11 - 031819	Y903213-08	Water	March 18, 2019 11:50	03/18/2019 16:30
BH12 - 031819	Y903213-09	Water	March 18, 2019 11:55	03/18/2019 16:30
BH13 - 031819	Y903213-10	Water	March 18, 2019 12:15	03/18/2019 16:30
BH14 - 031819	Y903213-11	Water	March 18, 2019 12:34	03/18/2019 16:30
BH15 - 031819	Y903213-12	Water	March 18, 2019 11:30	03/18/2019 16:30
BH16 - 031819	Y903213-13	Water	March 18, 2019 10:50	03/18/2019 16:30
BH17 - 031819	Y903213-14	Water	March 18, 2019 10:30	03/18/2019 16:30

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

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

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: Y903213

Client: Tasman

Client Project ID: Adamson Ernie

Checklist Completed by: JG

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

Date/time completed: 3/19/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.8 °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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) JG

Date/Time Reviewed 3/20/19

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 #2X

BH04 - 031819

3/18/2019 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903213-01 (Water)

BTEX by EPA 8260C

Benzene	6.56	4.00	ug/L	4	B9C1902	JTD	03/19/2019	03/20/2019	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	328	20.0	"	20	"	JTD	"	03/19/2019	
Xylenes, total	2050	20.0	"	"	"	JTD	"	03/20/2019	

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"		03/19/2019	
Surrogate: Toluene-d8	101 %	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 #2X

BH05 - 031819

3/18/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y903213-02 (Water)

BTEX by EPA 8260C

Benzene	4.40	4.00	ug/L	4	B9C1902	JTD	03/19/2019	03/20/2019	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	229	4.00	"	"	"	JTD	"	"	
Xylenes, total	357	4.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"		03/19/2019	
Surrogate: Toluene-d8	100 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.4 %	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

BH06 - 031819
3/18/2019 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903213-03 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B9C1902	JTD	03/19/2019	03/20/2019	U
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	4.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	4.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	03/19/2019		
Surrogate: Toluene-d8	101 %	85-115			"	"	"		
Surrogate: 4-Bromofluorobenzene	99.4 %	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

BH07 - 031819
3/18/2019 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903213-04 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B9C1902	JTD	03/19/2019	03/19/2019	U
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	4.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	4.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	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

BH08 - 031819
3/18/2019 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903213-05 (Water)

BTEX by EPA 8260C

Benzene	3.28	1.00	ug/L	1	B9C1902	JTD	03/19/2019	03/19/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	484	10.0	"	10	"	KDK	"	03/20/2019	
Xylenes, total	112	1.00	"	1	"	JTD	"	03/19/2019	

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	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

BH09R - 031819

3/18/2019 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y903213-06 (Water)

BTEX by EPA 8260C

Benzene	99.0	20.0	ug/L	20	B9C1902	JTD	03/19/2019	03/19/2019	
Toluene	ND	20.0	"	"	"	JTD	"	"	U
Ethylbenzene	903	20.0	"	"	"	JTD	"	"	
Xylenes, total	5430	20.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.9 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.9 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	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

BH10 - 031819

3/18/2019 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903213-07 (Water)

BTEX by EPA 8260C

Benzene	1000	20.0	ug/L	20	B9C1902	JTD	03/19/2019	03/19/2019	
Toluene	129	20.0	"	"	"	JTD	"	"	
Ethylbenzene	657	20.0	"	"	"	JTD	"	"	
Xylenes, total	7010	20.0	"	"	"	JTD	"	"	
Surrogate: 1,2-Dichloroethane-d4	99.5 %			84-121		"	"	"	
Surrogate: Toluene-d8	100 %			85-115		"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %			84-114		"	"	"	

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 Denver CO 80211

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

BH11 - 031819
3/18/2019 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903213-08 (Water)

BTEX by EPA 8260C

Benzene	14.8	1.00	ug/L	1	B9C1902	JTD	03/19/2019	03/19/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	219	10.0	"	10	"	KDK	"	03/20/2019	
Xylenes, total	ND	1.00	"	1	"	JTD	"	03/19/2019	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	84-114			"	"	"	"	

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

BH12 - 031819
3/18/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903213-09 (Water)

BTEX by EPA 8260C

Benzene	956	50.0	ug/L	50	B9C1902	KDK	03/19/2019	03/20/2019	
Toluene	ND	1.00	"	1	"	JTD	"	03/19/2019	U
Ethylbenzene	1160	50.0	"	50	"	KDK	"	03/20/2019	
Xylenes, total	7230	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.9 %	84-121			"	"		03/19/2019	
Surrogate: Toluene-d8	103 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"		"	

Origins Laboratory, Inc.



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

BH13 - 031819

3/18/2019 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903213-10 (Water)

BTEX by EPA 8260C

Benzene	414	50.0	ug/L	50	B9C1902	KDK	03/19/2019	03/20/2019	
Toluene	ND	1.00	"	1	"	JTD	"	03/19/2019	U
Ethylbenzene	1380	50.0	"	50	"	KDK	"	03/20/2019	
Xylenes, total	13200	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.8 %	84-121			"	"		03/19/2019	
Surrogate: Toluene-d8	108 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	114 %	84-114			"	"		"	

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 Denver CO 80211

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

BH14 - 031819

3/18/2019 12:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y903213-11 (Water)

BTEX by EPA 8260C

Benzene	3700	200	ug/L	200	B9C1902	KDK	03/19/2019	03/20/2019	
Toluene	9310	200	"	"	"	KDK	"	"	
Ethylbenzene	1300	200	"	"	"	KDK	"	"	
Xylenes, total	20400	200	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"		"	
Surrogate: Toluene-d8	107 %	85-115			"	"		03/19/2019	
Surrogate: 4-Bromofluorobenzene	96.2 %	84-114			"	"		03/20/2019	

Origins Laboratory, Inc.



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 Denver CO 80211

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

BH15 - 031819
3/18/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903213-12 (Water)

BTEX by EPA 8260C

Benzene	22.0	1.00	ug/L	1	B9C1902	JTD	03/19/2019	03/19/2019	
Toluene	3.56	1.00	"	"	"	JTD	"	"	
Ethylbenzene	360	10.0	"	10	"	KDK	"	03/20/2019	
Xylenes, total	31.3	1.00	"	1	"	JTD	"	03/19/2019	

Surrogate: 1,2-Dichloroethane-d4	97.6 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	"	

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 Denver CO 80211

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

BH16 - 031819
3/18/2019 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903213-13 (Water)

BTEX by EPA 8260C

Benzene	2.82	1.00	ug/L	1	B9C1902	JTD	03/19/2019	03/20/2019	
Toluene	1.05	1.00	"	"	"	JTD	"	"	
Ethylbenzene	244	10.0	"	10	"	KDK	"	03/20/2019	
Xylenes, total	23.5	1.00	"	1	"	JTD	"	03/20/2019	

Surrogate: 1,2-Dichloroethane-d4	98.7 %	84-121			"	"		"	
Surrogate: Toluene-d8	101 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	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

BH17 - 031819

3/18/2019 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903213-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C1902	KDK	03/19/2019	03/20/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	4.40	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.6 %	84-121			"	"		03/20/2019	
Surrogate: Toluene-d8	101 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"		"	

Origins Laboratory, Inc.



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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 B9C1902 - EPA 5030B (Water)

Blank (B9C1902-BLK1)

Prepared: 03/19/2019 Analyzed: 03/19/2019

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		100	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.8	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	84-114			

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 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 B9C1902 - EPA 5030B (Water)

Blank (B9C1902-BLK2)

Prepared: 03/19/2019 Analyzed: 03/19/2019

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	99.8		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	98.7		84-114			

Origins Laboratory, Inc.



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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 B9C1902 - EPA 5030B (Water)

LCS (B9C1902-BS1)

Prepared: 03/19/2019 Analyzed: 03/19/2019

Benzene	43.8	1.00	ug/L	50.0		87.6	73.3-129			
Toluene	43.9	1.00	"	50.0		87.8	76.2-123			
Ethylbenzene	44.2	1.00	"	50.0		88.5	73.6-130			
m,p-Xylene	88.0	2.00	"	100		88.0	76.1-126			
o-Xylene	44.8	1.00	"	50.0		89.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	84-121			
Surrogate: Toluene-d8	62		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	84-114			

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 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 B9C1902 - EPA 5030B (Water)

LCS (B9C1902-BS2)

Prepared: 03/19/2019 Analyzed: 03/19/2019

Benzene	48.5	1.00	ug/L	50.0		97.0	73.3-129			
Toluene	47.8	1.00	"	50.0		95.7	76.2-123			
Ethylbenzene	48.7	1.00	"	50.0		97.5	73.6-130			
m,p-Xylene	96.9	2.00	"	100		96.9	76.1-126			
o-Xylene	48.2	1.00	"	50.0		96.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.5	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

Origins Laboratory, Inc.



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 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 B9C1902 - EPA 5030B (Water)

Matrix Spike (B9C1902-MS1)	Source: Y903204-01			Prepared: 03/19/2019 Analyzed: 03/19/2019						
Benzene	48.2	1.00	ug/L	50.0	ND	96.3	74-130			
Toluene	48.2	1.00	"	50.0	ND	96.4	73-131			
Ethylbenzene	48.8	1.00	"	50.0	ND	97.6	76-132			
m,p-Xylene	95.7	2.00	"	100	ND	95.7	69-139			
o-Xylene	48.5	1.00	"	50.0	ND	97.0	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.0	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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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 B9C1902 - EPA 5030B (Water)

Matrix Spike (B9C1902-MS2)	Source: Y903204-02			Prepared: 03/19/2019 Analyzed: 03/19/2019						
Benzene	46.1	1.00	ug/L	50.0	0.670	90.8	74-130			
Toluene	45.6	1.00	"	50.0	ND	91.3	73-131			
Ethylbenzene	45.9	1.00	"	50.0	ND	91.8	76-132			
m,p-Xylene	91.1	2.00	"	100	ND	91.1	69-139			
o-Xylene	45.7	1.00	"	50.0	ND	91.5	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	84-114			

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 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 B9C1902 - EPA 5030B (Water)

Matrix Spike Dup (B9C1902-MSD1)	Source: Y903204-01			Prepared: 03/19/2019 Analyzed: 03/19/2019						
Benzene	50.7	1.00	ug/L	50.0	ND	101	74-130	5.10	20	
Toluene	50.6	1.00	"	50.0	ND	101	73-131	4.76	20	
Ethylbenzene	50.6	1.00	"	50.0	ND	101	76-132	3.64	20	
m,p-Xylene	100	2.00	"	100	ND	100	69-139	4.39	20	
o-Xylene	50.8	1.00	"	50.0	ND	102	74-131	4.61	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.8	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.6	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	84-114			

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 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 B9C1902 - EPA 5030B (Water)

Matrix Spike Dup (B9C1902-MSD2)	Source: Y903204-02			Prepared: 03/19/2019 Analyzed: 03/19/2019						
Benzene	48.3	1.00	ug/L	50.0	0.670	95.3	74-130	4.75	20	
Toluene	47.4	1.00	"	50.0	ND	94.9	73-131	3.87	20	
Ethylbenzene	48.2	1.00	"	50.0	ND	96.3	76-132	4.81	20	
m,p-Xylene	94.4	2.00	"	100	ND	94.4	69-139	3.56	20	
o-Xylene	47.8	1.00	"	50.0	ND	95.6	74-131	4.43	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.8	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	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

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.

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July 02, 2019

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. June 25, 2019. This project is associated with Origins project number Y906438-01.

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



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 - 062519	Y906438-01	Water	June 25, 2019 12:01	06/25/2019 16:50
BH05 - 062519	Y906438-02	Water	June 25, 2019 11:50	06/25/2019 16:50
BH06 - 062519	Y906438-03	Water	June 25, 2019 11:16	06/25/2019 16:50
BH07 - 062519	Y906438-04	Water	June 25, 2019 11:11	06/25/2019 16:50
BH08 - 062519	Y906438-05	Water	June 25, 2019 11:37	06/25/2019 16:50
BH09R - 062519	Y906438-06	Water	June 25, 2019 12:19	06/25/2019 16:50
BH10 - 062519	Y906438-07	Water	June 25, 2019 12:40	06/25/2019 16:50
BH11 - 062519	Y906438-08	Water	June 25, 2019 12:14	06/25/2019 16:50
BH12 - 062519	Y906438-09	Water	June 25, 2019 12:40	06/25/2019 16:50
BH13 - 062519	Y906438-10	Water	June 25, 2019 12:36	06/25/2019 16:50
BH14 - 062519	Y906438-11	Water	June 25, 2019 13:02	06/25/2019 16:50
BH15 - 062519	Y906438-12	Water	June 25, 2019 12:15	06/25/2019 16:50
BH16 - 062519	Y906438-13	Water	June 25, 2019 11:44	06/25/2019 16:50
BH17 - 062519	Y906438-14	Water	June 25, 2019 11:20	06/25/2019 16:50

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

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

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 page 1 of 2

1906438

ORIGINS
 LABORATORY, INC

Client: APC / Tasman
 Address: 6899 N Pecos St
 Denver CO 80221
 Telephone Number: 303-487-1228

Project Manager/Send Report To: Bob Cornez
 Email Address: rcornez@tasman-geo.com

Project Name/Number: Adamson Ernie F GU #1X 89101289
 Samples Collected By: AL, MS, ES

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	At Summer #		
BH04 - 062519	06/25/19	1201	3	X				X			BTEX	
BH05 - 062519		1150										
BH06 - 062519		1116										
BH07 - 062519		1111										
BH08 - 062519		1137										
BH09R - 062519		1219										
BH10 - 062519		1240										
BH11 - 062519		1214										
BH12 - 062519		1240										
BH13 - 062519		1236										
Relinquished By: <i>[Signature]</i>	Date: 06/25/19	Time: 1430	Time: 1430	Received By: <i>[Signature]</i>	Date: 06/25/19	Time: 1650	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"/>			

Print Detailed Manifest

Comments

CO

Origins Laboratory, Inc.

Jefe Pellegrini

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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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y900438

Client: Tasman
 Client Project ID: Adamson Ernie F GU #1X

Checklist Completed by: JG
 Date/time completed: 6/26/2019

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.0 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C

Thermometer ID: T003

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

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

Reviewed by (Project Manager) CP

Date/Time Reviewed 6/27/19

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

BH04 - 062519

6/25/2019 12:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906438-01 (Water)

BTEX by EPA 8260D

Benzene	4.56	4.00	ug/L	4	B9F2707	KDK	06/27/2019	06/29/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	275	4.00	"	"	"	KDK	"	"	
Xylenes, total	1340	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	"	

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

BH05 - 062519
6/25/2019 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906438-02 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9F2707	KDK	06/27/2019	06/29/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	15.8	4.00	"	"	"	KDK	"	"	
Xylenes, total	177	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130			"	"	"		
Surrogate: Toluene-d8	100 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"		

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

BH06 - 062519
6/25/2019 11:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906438-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2707	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	11.7	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130			"	"		"	
Surrogate: Toluene-d8	103 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"		"	

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

BH07 - 062519

6/25/2019 11:11:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906438-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2707	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH08 - 062519

6/25/2019 11:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y906438-05 (Water)

BTEX by EPA 8260D

Benzene	1.97	1.00	ug/L	1	B9F2707	KDK	06/27/2019	06/29/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	376	4.00	"	4	"	KDK	"	07/01/2019	
Xylenes, total	88.8	1.00	"	1	"	KDK	"	06/29/2019	

Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130			"	"		"	
Surrogate: Toluene-d8	103 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"		"	

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

BH09R - 062519

6/25/2019 12:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906438-06 (Water)

BTEX by EPA 8260D

Benzene	17.4	4.00	ug/L	4	B9F2707	KDK	06/27/2019	07/01/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	91.4	4.00	"	"	"	KDK	"	"	
Xylenes, total	768	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130			"	"		06/29/2019	
Surrogate: Toluene-d8	101 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	95.3 %	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH10 - 062519
6/25/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906438-07 (Water)

BTEX by EPA 8260D

Benzene	2460	50.0	ug/L	50	B9F2707	KDK	06/27/2019	07/01/2019	
Toluene	67.9	10.0	"	10	"	KDK	"	06/29/2019	
Ethylbenzene	246	10.0	"	"	"	KDK	"	"	
Xylenes, total	11600	50.0	"	50	"	KDK	"	07/01/2019	
Surrogate: 1,2-Dichloroethane-d4	96.4 %			70-130		"	"	06/29/2019	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %			70-130		"	"	"	

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

BH11 - 062519

6/25/2019 12:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y906438-08 (Water)

BTEX by EPA 8260D

Benzene	19.8	10.0	ug/L	10	B9F2707	KDK	06/27/2019	06/29/2019	
Toluene	ND	10.0	"	"	"	KDK	"	"	U
Ethylbenzene	196	10.0	"	"	"	KDK	"	"	
Xylenes, total	51.6	10.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	70-130			"	"	"	"	

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

BH12 - 062519

6/25/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906438-09 (Water)

BTEX by EPA 8260D

Benzene	152	10.0	ug/L	10	B9F2707	KDK	06/27/2019	06/29/2019	
Toluene	ND	10.0	"	"	"	KDK	"	"	U
Ethylbenzene	277	10.0	"	"	"	KDK	"	"	
Xylenes, total	1930	10.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130			"	"	"	"	

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

BH13 - 062519

6/25/2019 12:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906438-10 (Water)

BTEX by EPA 8260D

Benzene	284	4.00	ug/L	4	B9F2707	KDK	06/27/2019	07/02/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	1450	100	"	100	"	KDK	"	07/02/2019	
Xylenes, total	18300	100	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130			"	"		06/29/2019	
Surrogate: Toluene-d8	102 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130			"	"		"	

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 - 062519
6/25/2019 1:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906438-11 (Water)

BTEX by EPA 8260D

Benzene	4180	100	ug/L	100	B9F2707	KDK	06/27/2019	06/29/2019	
Toluene	10300	100	"	"	"	KDK	"	"	
Ethylbenzene	1090	100	"	"	"	KDK	"	"	
Xylenes, total	17000	100	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	96.2 %			70-130		"	"	"	
Surrogate: Toluene-d8	102 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %			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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH15 - 062519

6/25/2019 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y906438-12 (Water)

BTEX by EPA 8260D

Benzene	14.4	10.0	ug/L	10	B9F2707	KDK	06/27/2019	06/29/2019	
Toluene	ND	10.0	"	"	"	KDK	"	"	U
Ethylbenzene	356	10.0	"	"	"	KDK	"	"	
Xylenes, total	ND	10.0	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH16 - 062519
6/25/2019 11:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906438-13 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2707	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	13.1	1.00	"	"	"	KDK	"	"	
Xylenes, total	7.10	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130			"	"	"		
Surrogate: Toluene-d8	101 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"		

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

BH17 - 062519
6/25/2019 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906438-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2707	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	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.

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 8260D - Quality Control
Origins Laboratory, Inc.

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

Batch B9F2707 - EPA 5030B (Water)

Blank (B9F2707-BLK1)

Prepared: 06/27/2019 Analyzed: 06/28/2019

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	62		"	62.5		98.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	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.

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 8260D - 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 B9F2707 - EPA 5030B (Water)

Blank (B9F2707-BLK2)

Prepared: 06/27/2019 Analyzed: 06/28/2019

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	56		"	62.5	90.1		70-130			
Surrogate: Toluene-d8	74		"	62.5	118		70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5	105		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.

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 8260D - 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 B9F2707 - EPA 5030B (Water)

LCS (B9F2707-BS1)

Prepared: 06/27/2019 Analyzed: 06/28/2019

Benzene	55.3	1.00	ug/L	50.0		111	70-130			
Toluene	53.6	1.00	"	50.0		107	70-130			
Ethylbenzene	53.9	1.00	"	50.0		108	70-130			
m,p-Xylene	108	2.00	"	100		108	70-130			
o-Xylene	52.4	1.00	"	50.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.3	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.8	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.

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 8260D - 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 B9F2707 - EPA 5030B (Water)

LCS (B9F2707-BS2)

Prepared: 06/27/2019 Analyzed: 06/28/2019

Benzene	48.8	1.00	ug/L	50.0		97.6	70-130			
Toluene	47.4	1.00	"	50.0		94.8	70-130			
Ethylbenzene	47.3	1.00	"	50.0		94.5	70-130			
m,p-Xylene	94.0	2.00	"	100		94.0	70-130			
o-Xylene	47.1	1.00	"	50.0		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.0	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	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.

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 8260D - 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 B9F2707 - EPA 5030B (Water)

Matrix Spike (B9F2707-MS1)	Source: Y906431-04			Prepared: 06/27/2019 Analyzed: 06/28/2019						
Benzene	71.1	1.00	ug/L	50.0	22.2	97.8	70-130			
Toluene	51.7	1.00	"	50.0	1.31	101	70-130			
Ethylbenzene	52.7	1.00	"	50.0	1.25	103	70-130			
m,p-Xylene	110	2.00	"	100	7.15	103	70-130			
o-Xylene	51.9	1.00	"	50.0	1.43	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	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.

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 8260D - 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 B9F2707 - EPA 5030B (Water)

Matrix Spike (B9F2707-MS2)	Source: Y906431-02			Prepared: 06/27/2019 Analyzed: 06/28/2019						
Benzene	43.7	1.00	ug/L	50.0	ND	87.3	70-130			
Toluene	43.6	1.00	"	50.0	ND	87.2	70-130			
Ethylbenzene	41.9	1.00	"	50.0	ND	83.8	70-130			
m,p-Xylene	84.3	2.00	"	100	ND	84.3	70-130			
o-Xylene	44.2	1.00	"	50.0	ND	88.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.8	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

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 8260D - 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 B9F2707 - EPA 5030B (Water)

Matrix Spike Dup (B9F2707-MSD1)	Source: Y906431-04			Prepared: 06/27/2019 Analyzed: 06/28/2019						
Benzene	73.4	1.00	ug/L	50.0	22.2	102	70-130	3.17	20	
Toluene	55.0	1.00	"	50.0	1.31	107	70-130	6.19	20	
Ethylbenzene	55.1	1.00	"	50.0	1.25	108	70-130	4.42	20	
m,p-Xylene	113	2.00	"	100	7.15	105	70-130	2.54	20	
o-Xylene	53.2	1.00	"	50.0	1.43	104	70-130	2.42	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

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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 8260D - 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 B9F2707 - EPA 5030B (Water)

Matrix Spike Dup (B9F2707-MSD2)	Source: Y906431-02			Prepared: 06/27/2019 Analyzed: 06/28/2019						
Benzene	49.8	1.00	ug/L	50.0	ND	99.6	70-130	13.2	20	
Toluene	47.7	1.00	"	50.0	ND	95.5	70-130	9.02	20	
Ethylbenzene	47.1	1.00	"	50.0	ND	94.2	70-130	11.6	20	
m,p-Xylene	94.5	2.00	"	100	ND	94.5	70-130	11.5	20	
o-Xylene	48.3	1.00	"	50.0	ND	96.5	70-130	8.85	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.7	70-130			

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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.

August 26, 2019

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 22, 2019. This project is associated with Origins project number Y908356-01.

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



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
BH18 - 082219	Y908356-01	Water	August 22, 2019 13:24	08/22/2019 15:52
BH19 - 082219	Y908356-02	Water	August 22, 2019 13:55	08/22/2019 15:52
BH20 - 082219	Y908356-03	Water	August 22, 2019 14:15	08/22/2019 15:52
BH21 - 082219	Y908356-04	Water	August 22, 2019 11:02	08/22/2019 15:52
BH22 - 082219	Y908356-05	Water	August 22, 2019 11:20	08/22/2019 15:52
BH23 - 082219	Y908356-06	Water	August 22, 2019 13:40	08/22/2019 15:52
BH24 - 082219	Y908356-07	Water	August 22, 2019 11:55	08/22/2019 15:52
BH25 - 082219	Y908356-08	Water	August 22, 2019 12:35	08/22/2019 15:52
BH26 - 082219	Y908356-09	Water	August 22, 2019 11:56	08/22/2019 15:52
BH27 - 082219	Y908356-10	Water	August 22, 2019 12:27	08/22/2019 15:52
BH28 - 082219	Y908356-11	Water	August 22, 2019 12:45	08/22/2019 15:52
BH29 - 082219	Y908356-12	Water	August 22, 2019 12:40	08/22/2019 15:52
BH30 - 082219	Y908356-13	Water	August 22, 2019 13:20	08/22/2019 15:52
BH31 - 082219	Y908356-14	Water	August 22, 2019 14:40	08/22/2019 15:52

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.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

www.originslaboratory.com

Y908356

page 1 of 2

ORIGINS
 LABORATORY, INC

Client: APC/Tasman
 Project Manager: Bob Cornez
 Address: _____
 Project Name: Adamson Ernie F GU #1X
 Project Number: ZH
 Telephone Number: _____
 Samples Collected By: _____
 Email Address: _____

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		Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other				
BH18-082219	8/22/19	13:24	3	X				X						1	
BH19-082219		13:55												2	
BH20-082219		14:15												3	
BH21-082219		11:02												4	
BH22-082219		11:20												5	
BH25-082219		13:40												6	
BH24-082219		11:55												7	
BH25-082219		12:35												8	
BH26-082219		11:56												9	
BH27-082219		12:27												10	
Relinquished By: <u>[Signature]</u>	Date: 8/22/19	Time: 15:2	Time: 15:2	Received By: <u>[Signature]</u>	Date: 8-22-19	Time: 15:2	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>								
Relinquished By: _____	Date: _____	Time: _____	Time: _____	Received By: _____	Date: _____	Time: _____									

Temp Received: 5.9 Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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

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: Y908356

Client: Tasman
 Client Project ID: Adamson Ernie

Checklist Completed by: JG

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 8/23/2019

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

Cooler Number/Temperature: 1 / 5.8 °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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ^{(1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) JG

Date/Time Reviewed 8/26/19

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

BH18 - 082219
8/22/2019 1:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908356-01 (Water)

BTEX by EPA 8260D

Benzene	27.0	1.00	ug/L	1	B9H2303	KDK	08/23/2019	08/23/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	11.1	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	80.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH19 - 082219
8/22/2019 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908356-02 (Water)

BTEX by EPA 8260D

Benzene	110	1.00	ug/L	1	B9H2303	KDK	08/23/2019	08/23/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	206	1.00	"	"	"	KDK	"	"	
Xylenes, total	430	4.00	"	4	"	KDK	"	08/23/2019	
Surrogate: 1,2-Dichloroethane-d4	80.6 %			70-130		"	"	08/23/2019	
Surrogate: Toluene-d8	95.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %			70-130		"	"	"	

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

BH20 - 082219
8/22/2019 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908356-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H2303	KDK	08/23/2019	08/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	6.36	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	81.7 %	70-130			"	"		"	
Surrogate: Toluene-d8	97.5 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	91.5 %	70-130			"	"		"	

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

BH21 - 082219
8/22/2019 11:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908356-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H2303	KDK	08/23/2019	08/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	80.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.2 %	70-130			"	"	"	"	

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

BH22 - 082219

8/22/2019 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908356-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H2303	KDK	08/23/2019	08/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	83.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.1 %	70-130			"	"	"	"	

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

BH23 - 082219
8/22/2019 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908356-06 (Water)

BTEX by EPA 8260D

Benzene	8.10	1.00	ug/L	1	B9H2303	KDK	08/23/2019	08/23/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	5.72	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	80.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.7 %	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH24 - 082219

8/22/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908356-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H2303	KDK	08/23/2019	08/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	81.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	89.4 %	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH25 - 082219

8/22/2019 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908356-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H2303	KDK	08/23/2019	08/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	82.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.1 %	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH26 - 082219

8/22/2019 11:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908356-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H2303	KDK	08/23/2019	08/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	82.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.3 %	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH27 - 082219

8/22/2019 12:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908356-10 (Water)

BTEX by EPA 8260D

Benzene	443	10.0	ug/L	10	B9H2303	KDK	08/23/2019	08/23/2019	
Toluene	ND	1.00	"	1	"	KDK	"	08/23/2019	U
Ethylbenzene	105	1.00	"	"	"	KDK	"	"	
Xylenes, total	783	10.0	"	10	"	KDK	"	08/23/2019	

Surrogate: 1,2-Dichloroethane-d4	81.3 %	70-130			"	"		08/23/2019	
Surrogate: Toluene-d8	97.6 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	92.9 %	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH28 - 082219

8/22/2019 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908356-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H2303	KDK	08/23/2019	08/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	84.2 %	70-130			"	"		"	
Surrogate: Toluene-d8	97.8 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	91.5 %	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH29 - 082219

8/22/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y908356-12 (Water)

BTEX by EPA 8260D

Benzene	51.0	1.00	ug/L	1	B9H2303	KDK	08/23/2019	08/23/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	60.4	1.00	"	"	"	KDK	"	"	
Xylenes, total	2.15	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	82.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH30 - 082219
8/22/2019 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908356-13 (Water)

BTEX by EPA 8260D

Benzene	1.67	1.00	ug/L	1	B9H2303	KDK	08/23/2019	08/23/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	80.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.6 %	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.

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

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

BH31 - 082219
8/22/2019 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908356-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H2303	KDK	08/23/2019	08/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	82.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.4 %	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.

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 8260D - 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 B9H2303 - EPA 5030B (Water)

Blank (B9H2303-BLK1)

Prepared: 08/23/2019 Analyzed: 08/23/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	52		"	62.5		83.9	70-130			
<i>Surrogate: Toluene-d8</i>	61		"	62.5		97.3	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	57		"	62.5		91.0	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.

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 8260D - 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 B9H2303 - EPA 5030B (Water)

LCS (B9H2303-BS1)

Prepared: 08/23/2019 Analyzed: 08/23/2019

Benzene	50.0	1.00	ug/L	50.0		99.9	70-130			
Toluene	53.5	1.00	"	50.0		107	70-130			
Ethylbenzene	47.1	1.00	"	50.0		94.3	70-130			
m,p-Xylene	92.0	2.00	"	100		92.0	70-130			
o-Xylene	44.1	1.00	"	50.0		88.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	49		"	62.5		77.8	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		92.0	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.

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 8260D - 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 B9H2303 - EPA 5030B (Water)

Matrix Spike (B9H2303-MS1)	Source: Y908356-04			Prepared: 08/23/2019 Analyzed: 08/23/2019						
Benzene	54.0	1.00	ug/L	50.0	ND	108	70-130			
Toluene	58.4	1.00	"	50.0	ND	117	70-130			
Ethylbenzene	51.9	1.00	"	50.0	ND	104	70-130			
m,p-Xylene	104	2.00	"	100	0.320	103	70-130			
o-Xylene	48.6	1.00	"	50.0	ND	97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	49		"	62.5		79.2	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.1	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.

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 8260D - 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 B9H2303 - EPA 5030B (Water)

Matrix Spike Dup (B9H2303-MSD1)	Source: Y908356-04			Prepared: 08/23/2019 Analyzed: 08/23/2019						
Benzene	54.6	1.00	ug/L	50.0	ND	109	70-130	1.09	20	
Toluene	58.9	1.00	"	50.0	ND	118	70-130	0.904	20	
Ethylbenzene	50.8	1.00	"	50.0	ND	102	70-130	2.22	20	
m,p-Xylene	98.4	2.00	"	100	0.320	98.0	70-130	5.36	20	
o-Xylene	46.7	1.00	"	50.0	ND	93.5	70-130	3.86	20	
Surrogate: 1,2-Dichloroethane-d4	48		"	62.5		77.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.8	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.

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

September 06, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Adamson Ernie F GU #1X Project Number - 89101289

Attached are your analytical results for KMG - Adamson Ernie F GU #1X received by Origins Laboratory, Inc. September 03, 2019. This project is associated with Origins project number Y909028-01.

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



Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #1X

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH04 - 090319	Y909028-01	Water	September 3, 2019 14:11	09/03/2019 16:25
BH05 - 090319	Y909028-02	Water	September 3, 2019 13:47	09/03/2019 16:25
BH06 - 090319	Y909028-03	Water	September 3, 2019 13:27	09/03/2019 16:25
BH07 - 090319	Y909028-04	Water	September 3, 2019 14:27	09/03/2019 16:25
BH08 - 090319	Y909028-05	Water	September 3, 2019 13:09	09/03/2019 16:25
BH09R - 090319	Y909028-06	Water	September 3, 2019 13:55	09/03/2019 16:25
BH10 - 090319	Y909028-07	Water	September 3, 2019 14:32	09/03/2019 16:25
BH11 - 090319	Y909028-08	Water	September 3, 2019 14:53	09/03/2019 16:25
BH12 - 090319	Y909028-09	Water	September 3, 2019 14:09	09/03/2019 16:25
BH13 - 090319	Y909028-10	Water	September 3, 2019 14:22	09/03/2019 16:25
BH14 - 090319	Y909028-11	Water	September 3, 2019 14:46	09/03/2019 16:25
BH15 - 090319	Y909028-12	Water	September 3, 2019 13:41	09/03/2019 16:25
BH16 - 090319	Y909028-13	Water	September 3, 2019 13:21	09/03/2019 16:25
BH17 - 090319	Y909028-14	Water	September 3, 2019 12:43	09/03/2019 16:25

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #1X

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH18 - 090319	Y909028-15	Water	September 3, 2019 12:30	09/03/2019 16:25
BH19 - 090319	Y909028-16	Water	September 3, 2019 12:45	09/03/2019 16:25
BH20 - 090319	Y909028-17	Water	September 3, 2019 13:03	09/03/2019 16:25
BH21 - 090319	Y909028-18	Water	September 3, 2019 10:29	09/03/2019 16:25
BH22 - 090319	Y909028-19	Water	September 3, 2019 10:48	09/03/2019 16:25
BH23 - 090319	Y909028-20	Water	September 3, 2019 14:31	09/03/2019 16:25
BH24 - 090319	Y909028-21	Water	September 3, 2019 13:26	09/03/2019 16:25
BH25 - 090319	Y909028-22	Water	September 3, 2019 13:07	09/03/2019 16:25
BH26 - 090319	Y909028-23	Water	September 3, 2019 12:25	09/03/2019 16:25
BH27 - 090319	Y909028-24	Water	September 3, 2019 11:29	09/03/2019 16:25
BH28 - 082219	Y909028-25	Water	September 3, 2019 11:09	09/03/2019 16:25
BH29 - 090319	Y909028-26	Water	September 3, 2019 12:18	09/03/2019 16:25
BH30 - 090319	Y909028-27	Water	September 3, 2019 14:02	09/03/2019 16:25
BH31 - 090319	Y909028-28	Water	September 3, 2019 13:46	09/03/2019 16:25

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89101289
Project: KMG - Adamson Ernie F GU #1X

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH32 - 090319	Y909028-29	Water	September 3, 2019 12:47	09/03/2019 16:25
BH33 - 090319	Y909028-30	Water	September 3, 2019 11:38	09/03/2019 16:25
BH34 - 090319	Y909028-31	Water	September 3, 2019 11:59	09/03/2019 16:25
BH35 - 090319	Y909028-32	Water	September 3, 2019 12:14	09/03/2019 16:25
BH36 - 090319	Y909028-33	Water	September 3, 2019 12:32	09/03/2019 16:25

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

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Y9090281/4

ORIGINS
 LABORATORY, INC

page 1 of 4

Client: APC/Tasman
 Address: 6855 W 19th Ave Greenwood
CO, 80020
 Telephone Number: 484-794-3328
 Email Address: BCORNEZ@tasman-geo.com

Project Manager: Bob Cornez
 Project Name: Adamson Ernie F GU #1X
 Project Number: 89101289
 Samples Collected By: Morgan S., Brandon V.H. Jesse M.

1 725 EIK Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions	
				Unpreserved	Hg	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	Date		Time
B404-090319	09/03/19	1411	3	X				X				X	1	
B405-090319	09/03/19	1347	3	X				X				X	2	
B406-090319	09/03/19	1327	3	X				X				X	3	
B407-090319	09/03/19	1427	3	X				X				X	4	
B408-090319	09/03/19	1309	3	X				X				X	5	
B409A-090319	09/03/19	1355	3	X				X				X	6	
B410-090319	09/03/19	1432	3	X				X				X	7	
B411-090319	09/03/19	1453	3	X				X				X	8	
B412-090319	09/03/19	1409	3	X				X				X	9	
B413-090319	09/03/19	1422	3	X				X				X	10	
Relinquished By: <u>[Signature]</u>	Date: <u>9/3/19</u>	Time: <u>1625</u>	Time: <u>1625</u>	Received By: <u>[Signature]</u>	Date: <u>9-3-19</u>	Time: <u>1625</u>	Turnaround Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard							

Date Results Needed: 4/4

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 #1X

www.originslaboratory.com
 page 2 of 4

Y909028 3/4

Client: APC / Tasman
 Address: 6855 W 119th Ave Brentfield
CO, 80020
 Telephone Number: 484-794-3328
 Email Address: scornez@tasman-geo.com

Project Manager: Bob Cornez
 Project Name: Adamson Ernie F GU #1X
 Project Number: 89101289
 Samples Collected By: Morgan S. Brandon V.H. Jesse M.

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HgI	HNO ₃	Other	Groundwater	Soil	Air Summ #	Other	Date:	
BH14-090319	09/03/19	1446	3	X				X					1
BH15-090319	09/03/19	1341	3	X				X					2
BH16-090319	09/03/19	1321	3	X				X					3
BH17-090319	09/03/19	1243	3	X				X					4
BH18-090319	09/03/19	1230	3	X				X					5
BH19-090319	09/03/19	1245	3	X				X					6
BH20-090319	09/03/19	1303	3	X				X					7
BH21-090319	09/03/19	1029	3	X				X					8
BH22-090319	09/03/19	1048	3	X				X					9
BH23-090319	09/03/19	1431	3	X				X					10
Relinquished By: <u>[Signature]</u>	Date: <u>9/3/19</u>	Time: <u>1625</u>		Received By: <u>[Signature]</u>	Date: <u>9-3-19</u>	Time: <u>1628</u>		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"/>					

4/4 Date Results Needed

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 #1X

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y909028 Client: Tasman
 Client Project ID: 89101289
 Checklist Completed by: JG KDK Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 09 10/4/2019 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 4.4 °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⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			/	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	/			
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time/Reviewed 9/5/19

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 #1X

BH04 - 090319

9/3/2019 2:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-01 (Water)

BTEX by EPA 8260D

Benzene	8.16	4.00	ug/L	4	B910407	KDK	09/04/2019	09/05/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	115	4.00	"	"	"	KDK	"	"	
Xylenes, total	534	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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 #1X

BH05 - 090319

9/3/2019 1:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-02 (Water)

BTEX by EPA 8260D

Benzene	18.0	4.00	ug/L	4	B910407	KDK	09/04/2019	09/05/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	185	4.00	"	"	"	KDK	"	"	
Xylenes, total	838	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	"	

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 #1X

BH06 - 090319

9/3/2019 1:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-03 (Water)

BTEX by EPA 8260D

Benzene	2.21	1.00	ug/L	1	B910407	KDK	09/04/2019	09/04/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	14.8	1.00	"	"	"	KDK	"	"	
Xylenes, total	72.1	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

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 #1X

BH07 - 090319

9/3/2019 2:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B910407	KDK	09/04/2019	09/04/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130				"	"	"	
Surrogate: Toluene-d8	101 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130				"	"	"	

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 #1X

BH08 - 090319

9/3/2019 1:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-05 (Water)

BTEX by EPA 8260D

Benzene	361	4.00	ug/L	4	B910407	KDK	09/04/2019	09/04/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	703	4.00	"	"	"	KDK	"	"	
Xylenes, total	3460	10.0	"	10	"	KDK	"	09/05/2019	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"		09/04/2019	
Surrogate: Toluene-d8	101 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences
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 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH09R - 090319

9/3/2019 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-06 (Water)

BTEX by EPA 8260D

Benzene	722	50.0	ug/L	50	B910407	KDK	09/04/2019	09/04/2019	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	963	50.0	"	"	"	KDK	"	"	
Xylenes, total	7710	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH10 - 090319

9/3/2019 2:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-07 (Water)

BTEX by EPA 8260D

Benzene	1550	50.0	ug/L	50	B910407	KDK	09/04/2019	09/05/2019	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	466	50.0	"	"	"	KDK	"	"	
Xylenes, total	7920	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH11 - 090319
9/3/2019 2:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-08 (Water)

BTEX by EPA 8260D

Benzene	2.03	1.00	ug/L	1	B910407	KDK	09/04/2019	09/05/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.29	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"		09/05/2019	
Surrogate: Toluene-d8	99.8 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"		"	

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 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH12 - 090319

9/3/2019 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-09 (Water)

BTEX by EPA 8260D

Benzene	109	50.0	ug/L	50	B910407	KDK	09/04/2019	09/05/2019	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	416	50.0	"	"	"	KDK	"	"	
Xylenes, total	2240	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH13 - 090319

9/3/2019 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-10 (Water)

BTEX by EPA 8260D

Benzene	130	50.0	ug/L	50	B910407	KDK	09/04/2019	09/05/2019	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	1200	50.0	"	"	"	KDK	"	"	
Xylenes, total	13600	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH14 - 090319

9/3/2019 2:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-11 (Water)

BTEX by EPA 8260D

Benzene	4940	50.0	ug/L	50	B910407	KDK	09/04/2019	09/04/2019	
Toluene	16000	100	"	100	"	KDK	"	09/05/2019	
Ethylbenzene	1500	50.0	"	50	"	KDK	"	09/04/2019	
Xylenes, total	32600	100	"	100	"	KDK	"	09/05/2019	
Surrogate: 1,2-Dichloroethane-d4	75.4 %			70-130		"	"	09/04/2019	
Surrogate: Toluene-d8	95.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	86.4 %			70-130		"	"	"	

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 #1X

BH15 - 090319

9/3/2019 1:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-12 (Water)

BTEX by EPA 8260D

Benzene	25.0	1.00	ug/L	1	B910407	KDK	09/04/2019	09/05/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	181	50.0	"	50	"	KDK	"	09/04/2019	
Xylenes, total	ND	1.00	"	1	"	KDK	"	09/05/2019	U

Surrogate: 1,2-Dichloroethane-d4	74.8 %	70-130			"	"		09/04/2019	
Surrogate: Toluene-d8	95.8 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	86.1 %	70-130			"	"		"	

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 #1X

BH16 - 090319

9/3/2019 1:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-13 (Water)

BTEX by EPA 8260D

Benzene	137	4.00	ug/L	4	B910407	KDK	09/04/2019	09/05/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	224	4.00	"	"	"	KDK	"	"	
Xylenes, total	167	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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 #1X

BH17 - 090319
9/3/2019 12:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B910407	KDK	09/04/2019	09/05/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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 #1X

BH18 - 090319
9/3/2019 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-15 (Water)

BTEX by EPA 8260D

Benzene	10.2	1.00	ug/L	1	B910407	KDK	09/04/2019	09/05/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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 #1X

BH19 - 090319
9/3/2019 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-16 (Water)

BTEX by EPA 8260D

Benzene	190	1.00	ug/L	1	B910407	KDK	09/04/2019	09/05/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	185	4.00	"	4	"	KDK	"	09/05/2019	
Xylenes, total	16.6	1.00	"	1	"	KDK	"	09/05/2019	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"		"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"		"	

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 #1X

BH20 - 090319
9/3/2019 1:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-17 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B910407	KDK	09/04/2019	09/05/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	64.4	4.00	"	"	"	KDK	"	"	
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"		
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130			"	"	"		

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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 #1X

BH21 - 090319
9/3/2019 10:29:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-18 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B910407	KDK	09/04/2019	09/05/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

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 #1X

BH22 - 090319
9/3/2019 10:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-19 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B910407	KDK	09/04/2019	09/05/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
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 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH23 - 090319

9/3/2019 2:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-20 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B910407	KDK	09/04/2019	09/05/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.03	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"	

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 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH24 - 090319

9/3/2019 1:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-21 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B910408	KDK	09/04/2019	09/05/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	74.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	84.7 %	70-130			"	"	"	"	

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 #1X

BH25 - 090319

9/3/2019 1:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-22 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B910408	KDK	09/04/2019	09/05/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	74.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	85.3 %	70-130			"	"	"	"	

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 #1X

BH26 - 090319
9/3/2019 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-23 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B910408	KDK	09/04/2019	09/05/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	72.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	86.0 %	70-130			"	"	"	"	

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH27 - 090319
9/3/2019 11:29:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-24 (Water)

BTEX by EPA 8260D

Benzene	123	1.00	ug/L	1	B910408	KDK	09/04/2019	09/05/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	5.21	1.00	"	"	"	KDK	"	"	
Xylenes, total	49.5	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	75.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	85.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH28 - 082219
9/3/2019 11:09:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-25 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B910408	KDK	09/04/2019	09/05/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	73.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	84.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH29 - 090319
9/3/2019 12:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-26 (Water)

BTEX by EPA 8260D

Benzene	23.6	1.00	ug/L	1	B910408	KDK	09/04/2019	09/05/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	3.55	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	75.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	86.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH30 - 090319

9/3/2019 2:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-27 (Water)

BTEX by EPA 8260D

Benzene	4.15	1.00	ug/L	1	B910408	KDK	09/04/2019	09/05/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	75.9 %	70-130			"	"		"	
Surrogate: Toluene-d8	97.1 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	84.5 %	70-130			"	"		"	

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH31 - 090319

9/3/2019 1:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-28 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B910408	KDK	09/04/2019	09/05/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	76.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	84.1 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH32 - 090319
9/3/2019 12:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-29 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B910408	KDK	09/04/2019	09/05/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	74.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	85.0 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH33 - 090319
9/3/2019 11:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-30 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B910408	KDK	09/04/2019	09/05/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	72.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	84.4 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH34 - 090319
9/3/2019 11:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-31 (Water)

BTEX by EPA 8260D

Benzene	1.35	1.00	ug/L	1	B910408	KDK	09/04/2019	09/05/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	72.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	86.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH35 - 090319
9/3/2019 12:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-32 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B910408	KDK	09/04/2019	09/05/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	76.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	84.0 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89101289
 Project: KMG - Adamson Ernie F GU #1X

BH36 - 090319
9/3/2019 12:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909028-33 (Water)

BTEX by EPA 8260D

Benzene	27.9	1.00	ug/L	1	B910408	KDK	09/04/2019	09/05/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	75.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	85.2 %	70-130			"	"	"	"	

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 #1X

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B910407 - EPA 5030B (Water)

Blank (B910407-BLK1)

Prepared: 09/04/2019 Analyzed: 09/04/2019

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	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 #1X

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B910407 - EPA 5030B (Water)

LCS (B910407-BS1)

Prepared: 09/04/2019 Analyzed: 09/04/2019

Benzene	50.7	1.00	ug/L	50.0		101	70-130			
Toluene	50.8	1.00	"	50.0		102	70-130			
Ethylbenzene	50.8	1.00	"	50.0		102	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
o-Xylene	52.0	1.00	"	50.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

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 #1X

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B910407 - EPA 5030B (Water)

Matrix Spike (B910407-MS1)	Source: Y909028-03			Prepared: 09/04/2019 Analyzed: 09/04/2019						
Benzene	55.4	1.00	ug/L	50.0	2.21	106	70-130			
Toluene	55.2	1.00	"	50.0	0.140	110	70-130			
Ethylbenzene	63.1	1.00	"	50.0	14.8	96.7	70-130			
m,p-Xylene	153	2.00	"	100	72.1	81.2	70-130			
o-Xylene	55.0	1.00	"	50.0	0.790	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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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 #1X

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B910407 - EPA 5030B (Water)

Matrix Spike Dup (B910407-MSD1)	Source: Y909028-03			Prepared: 09/04/2019 Analyzed: 09/04/2019						
Benzene	54.0	1.00	ug/L	50.0	2.21	104	70-130	2.59	20	
Toluene	54.6	1.00	"	50.0	0.140	109	70-130	1.11	20	
Ethylbenzene	62.9	1.00	"	50.0	14.8	96.2	70-130	0.365	20	
m,p-Xylene	151	2.00	"	100	72.1	79.2	70-130	1.27	20	
o-Xylene	55.2	1.00	"	50.0	0.790	109	70-130	0.363	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B910408 - EPA 5030B (Water)

Blank (B910408-BLK1)

Prepared: 09/04/2019 Analyzed: 09/05/2019

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	47		"	62.5	74.6		70-130			
Surrogate: Toluene-d8	60		"	62.5	96.1		70-130			
Surrogate: 4-Bromofluorobenzene	53		"	62.5	84.0		70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B910408 - EPA 5030B (Water)

LCS (B910408-BS1)

Prepared: 09/04/2019 Analyzed: 09/05/2019

Benzene	54.1	1.00	ug/L	50.0		108	70-130			
Toluene	62.6	1.00	"	50.0		125	70-130			
Ethylbenzene	56.0	1.00	"	50.0		112	70-130			
m,p-Xylene	110	2.00	"	100		110	70-130			
o-Xylene	55.8	1.00	"	50.0		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	44		"	62.5		70.9	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	54		"	62.5		86.5	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B910408 - EPA 5030B (Water)

Matrix Spike (B910408-MS1)	Source: Y909030-01			Prepared: 09/04/2019 Analyzed: 09/05/2019						
Benzene	54.2	1.00	ug/L	50.0	ND	108	70-130			
Toluene	63.1	1.00	"	50.0	ND	126	70-130			
Ethylbenzene	56.6	1.00	"	50.0	ND	113	70-130			
m,p-Xylene	108	2.00	"	100	ND	108	70-130			
o-Xylene	53.6	1.00	"	50.0	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	44		"	62.5		71.0	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	53		"	62.5		85.0	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B910408 - EPA 5030B (Water)

Matrix Spike Dup (B910408-MSD1)	Source: Y909030-01			Prepared: 09/04/2019 Analyzed: 09/05/2019						
Benzene	50.8	1.00	ug/L	50.0	ND	102	70-130	6.34	20	
Toluene	55.4	1.00	"	50.0	ND	111	70-130	12.9	20	
Ethylbenzene	48.2	1.00	"	50.0	ND	96.4	70-130	16.1	20	
m,p-Xylene	92.0	2.00	"	100	ND	92.0	70-130	16.3	20	
o-Xylene	44.9	1.00	"	50.0	ND	89.8	70-130	17.7	20	
Surrogate: 1,2-Dichloroethane-d4	45		"	62.5		72.1	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	54		"	62.5		85.7	70-130			

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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.

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Jen Pellegrini For Noelle Doyle Mathis, President