FORM 27 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax 894-2109

FOR OGCC USE ONLY
Received 5/28/2015
Document 2143456
REM 9106

OGCC Employee:

[X] Spill [ ] Complaint
[ ] Inspection [ ] NOAV

Tracking No: ~~439681~~ 400722328

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

[X] Spill or Release [ ] Plug & Abandon [ ] Central Facility Closure [ ] Site/Facility Closure [ ] Other (describe):

GENERAL INFORMATION

OGCC Operator Number: 47120
Name of Operator: Kerr-McGee Oil and Gas Onshore, LP
Address: 1099 18th Street, Suite 1800
City: Denver State: CO Zip: 80202

Contact Name and Telephone
Name: Phillip Hamlin
No: 970-336-3500
Fax: 970-336-3656

API/Facility No: 05-123-07902
Facility Name: Albert Sack Unit 1
Well Name: Albert Sack
Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNE S22 T1N, R67W

County: Weld
Facility Number: 317879
Well Number: Unit 1
Latitude: 40.040113 Longitude: -104.872339

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Condensate and Produced Water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? [X] Y [ ] N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Agriculture

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Silty sand and silty clay

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Surface water is located approximately 930' feet southeast of the site; the nearest water well is located approximately 1,105' east of the release area.

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):		Extent of Impact:	How Determined:
[X]	Soils	40' N-S x 55' E-W x 10' bgs	Excavation, soil sampling, and laboratory analysis
[ ]	Vegetation		
[X]	Groundwater	See attached data	Groundwater sampling and laboratory analysis
[ ]	Surface water		

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

On October 30, 2014, historical hydrocarbon impacts were encountered beneath a partially buried produced water vessel during tank battery reconstruction activities. The volume of the release is unknown. The well was shut in and locked out, and petroleum hydrocarbon impacted soil was excavated and transported off-site for disposal. Groundwater was encountered in the excavation at approximately 10 feet below ground surface (bgs). Impacted groundwater was removed by a vacuum truck and taken to a licensed injection facility for disposal. An Initial Form 19 was submitted on November 3, 2014, and a Supplemental Form 19 was submitted on November 10, 2015. The COGCC has issued Spill Tracking number 439681 for this release.

Describe how source is to be removed:

Excavation activities commenced on October 30, 2014, and approximately 500 cubic yards (cy) of impacted soil were removed and transported to the Front Range Landfill in Erie, Colorado. Excavation activities were guided in the field using a photoionization detector (PID) to measure volatile organic compound (VOC) concentrations in soil. Soil samples were collected from the final extent of the excavation and submitted to Origins Laboratory in Denver, Colorado for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) by USEPA Method 8260B, TPH - diesel range organics and oil range organics (DRO and ORO) by USEPA Method 8015. Laboratory results for the confirmation soil samples indicated that BTEX and TPH concentrations were below applicable COGCC standards at the final extent of the excavation. Groundwater was encountered in the excavation at approximately 10 feet bgs and a sample (GW01) was collected for laboratory analysis of BTEX. Sample GW01 exhibited concentrations of benzene (3,140 ug/L), toluene (1,400 ug/L), and total xylenes (8,040 ug/L) exceeding the applicable COGCC groundwater standards. A vacuum truck was used to remove approximately 80 barrels of impacted groundwater from the excavation, which were transported to a licensed injection facility for disposal. A subsequent groundwater sample (GW02) was collected and submitted for analysis of BTEX. Sample GW02 exhibited concentrations of benzene (2,250 ug/L), toluene (564 ug/L), and total xylenes (4,420 ug/L) exceeding the applicable COGCC standards. Soil analytical results are summarized in Table 1 and groundwater analytical results are summarized in Table 2. Soil and excavation groundwater sample locations are illustrated on Figure 1, and laboratory analytical reports are included as attachments.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

The impacted soil was excavated and transported to the Front Range Landfill in Erie, Colorado. The impacted groundwater was removed by a vacuum truck and transported to a licensed injection facility for disposal. 264 pounds of activated carbon were added to the groundwater in the excavation prior to backfilling. Additional proposed groundwater remediation measures are described on the following page.

Submit Page 2 with Page 1.

FORM 27 Rev 6/99

Page 2

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado
(303) 894-2100 Fax 894-2109

REMEDIATION WORKPLAN (CONT.)

OGCC Employee: R> Allison

Tracking Number: ~~439681~~ 400722328
Name of Operator: Kerr-McGee Oil and Gas Onshore, LP
OGCC Operator No: 47120
Received Date: 5/28/2015
Well Name & No: Albert Sack Unit 1
Facility Name & No.: Albert Sack Unit 1 / 317879

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

On April 2, 2015, five temporary groundwater monitoring wells (BH01 - BH05) were installed surrounding the area of the release to assess groundwater impacts subsequent to the completion of excavation, groundwater removal, and activated carbon treatment activities. Groundwater samples were collected from the wells on April 14, 2015, and analyzed for BTEX. Temporary monitoring well locations and groundwater analytical results are illustrated on Figure 2, and a groundwater elevation map is presented on Figure 3. Groundwater analytical results are summarized in Table 2, and the analytical laboratory reports and temporary groundwater well completion logs are included as attachments. Additional temporary monitoring wells will be installed to establish point of compliance and further remedial actions will be assessed at that time. Groundwater monitoring will continue on a quarterly basis until BTEX concentrations remain below COGCC groundwater standards for four consecutive quarters.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Following assessment and source removal activities, the site was restored to its pre-release grade. Kerr-McGee's tank battery has been re-built and remains at the site.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? [ ] Y [X] N If yes, describe:

BTEX and TPH concentrations were below the applicable Table 910-1 standards for soil samples collected from the final extent of the excavation. Quarterly groundwater monitoring for BTEX will continue at the five temporary well locations until BTEX concentrations remain below COGCC groundwater standards for four consecutive quarters.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Impacted soil was transported to the Front Range Landfill in Erie, Colorado for disposal. Impacted groundwater was transported to a licensed injection facility for disposal.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began:	10/30/2014	Date Site Investigation Completed:	4/2/2015	Remediation Plan Submitted:	
Remediation Start Date:	10/30/2014	Anticipated Completion Date:	10/14/2016	Actual Completion Date:	

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Phillip Hamlin

Signed: _____ Title: Senior HSE Representative Date: 5/28/15

OGCC Approved: ~~Richard Allison~~ Digitally signed by Richard Allison DN: cn=Richard Allison, o=COGCC, ou, email=rick.allison@state.co.us, c=US Date: 2015.06.02 09:39:05 -06'00' Title: Northeast EPS Date: 6/2/2015

Condition of Approval: Additional investigation is required. Conduct additional assessment work to define the extent of impact to ground water. Submit an additional assessment report within 90 days (by 8/31/2015) with the results of the additional assessment.

TABLES

TABLE 1
ALBERT SACK UNIT 1
SOIL SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample ID	Date Sampled	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TVPH - GRO (mg/kg)	TEPH - DRO + ORO (mg/kg)
COGCC standards for soil (mg/kg) [1]			**0.17**	**85**	**100**	**175**	**500**	
NW01 @ 8'	10/30/2014	8	**0.35**	<0.10	3.07	10.0	**1,300**	**608**
NE01 @ 8'	10/30/2014	8	<0.10	<0.10	<0.10	<0.10	<50	63.0
SW01 @ 8'	10/30/2014	8	**1.01**	<0.10	2.09	14.3	**339**	**175**
SE01 @ 8'	10/30/2014	8	**1.90**	<0.10	5.42	6.09	235	203
E01 @ 8'	10/30/2014	8	0.05	<0.05	0.05	<0.05	<50	<200
W02 @ 8'	11/4/2014	8	<0.100	<0.100	0.390	2.07	398	100
SW02 @ 8'	11/4/2014	8	**0.245**	<0.100	0.214	0.283	124	<200
SE02 @ 8'	11/4/2014	8	0.0029	<0.0020	<0.0020	<0.0020	0.414	<200
SW03 @ 8'	11/4/2014	8	0.0200	<0.0020	<0.0020	0.0050	8.08	<200
NW02 @ 8'	11/5/2014	8	<0.0500	<0.0500	<0.0500	<0.0500	11.0	<200
E02 @ 8'	11/10/2014	8	**0.759**	<0.050	0.106	<0.050	**275**	**290**
E03 @ 8'	11/11/2014	8	0.091	<0.002	0.004	<0.002	4.48	<200
E04 @ 8'	11/14/2014	8	<0.050	<0.050	<0.050	<0.050	38.8	<200
W03 @ 8'	11/14/2014	8	<0.100	<0.100	<0.100	<0.100	316	130

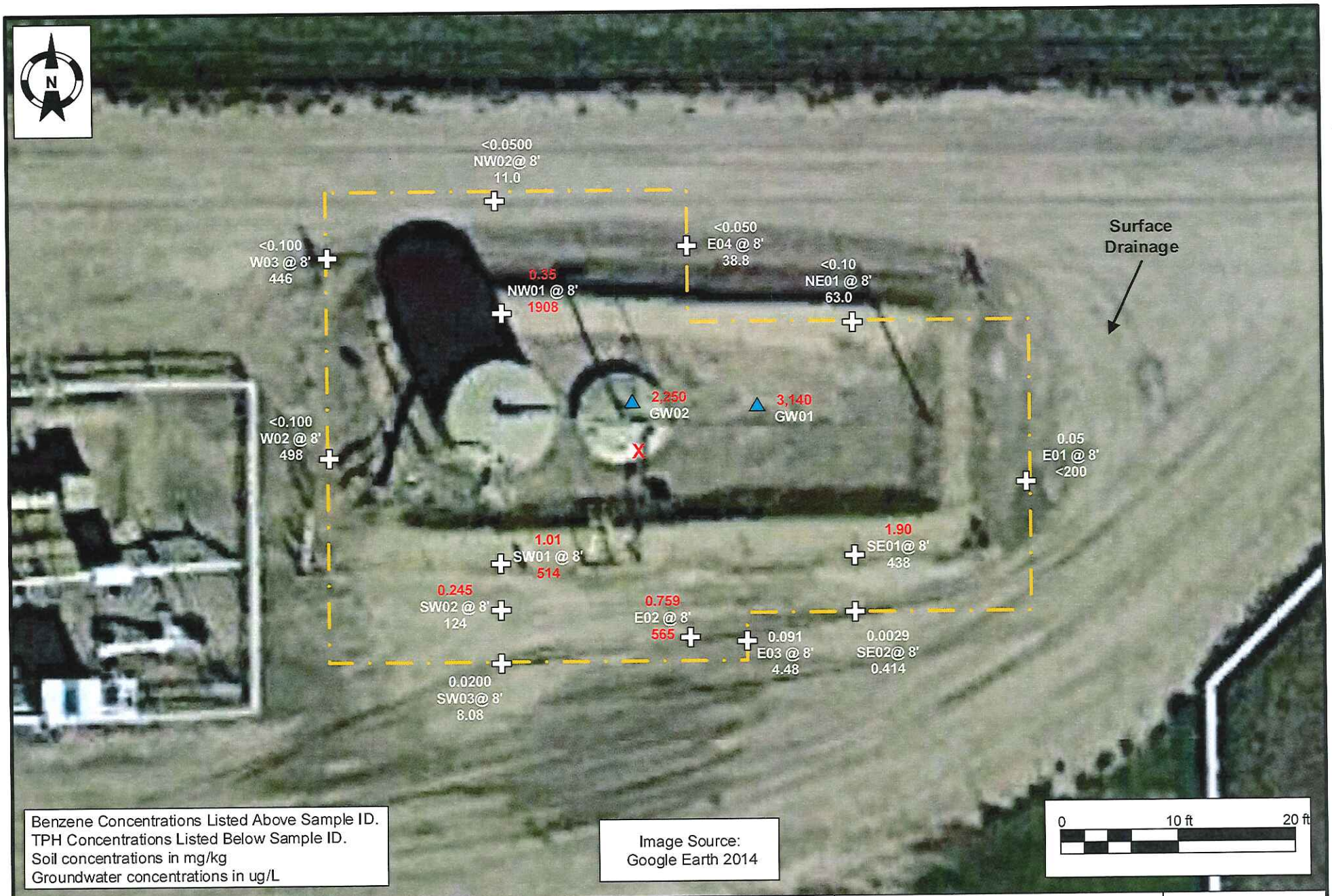
Notes:
1. Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective February 1, 2014.
COGCC = Colorado Oil and Gas Conservation Commission
(<) = Analytical result is less than the indicated laboratory reporting limit.
TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics
TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics
TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics
mg/kg = Milligrams per kilogram.
bgs = Below ground surface.
BOLD = Analytical result is in exceedance of COGCC Table 910-1 soil standards.

TABLE 2
ALBERT SACK UNIT 1
GROUNDWATER SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Table 910-1 Groundwater Standard (µg/L) [1]		**5**	**560**	**700**	**1,400**
GW01	10/30/2014	**3,140**	**1,400**	618	**8,040**
GW02	11/5/2014	**2,250**	**564**	354	**4,420**
BH01	4/14/2015	**226**	<1.0	350	**3,830**
BH02	4/14/2015	**393**	<1.0	79.5	377
BH03	4/14/2015	**328**	<1.0	135	57.4
BH04	4/14/2015	<4.0	<4.0	279	1,110
BH05	4/14/2015	**7.2**	<1.0	26.2	208

Notes:
1. Groundwater standards referenced from 2 CCR 404-1, Table 910-1, effective February 1, 2014.
COGCC = Colorado Oil and Gas Conservation Commission
µg/L = Micrograms per liter
(<) = Analytical result is less than the indicated laboratory reporting limit.
BOLD = Analytical result is in exceedance of COGCC groundwater standards.

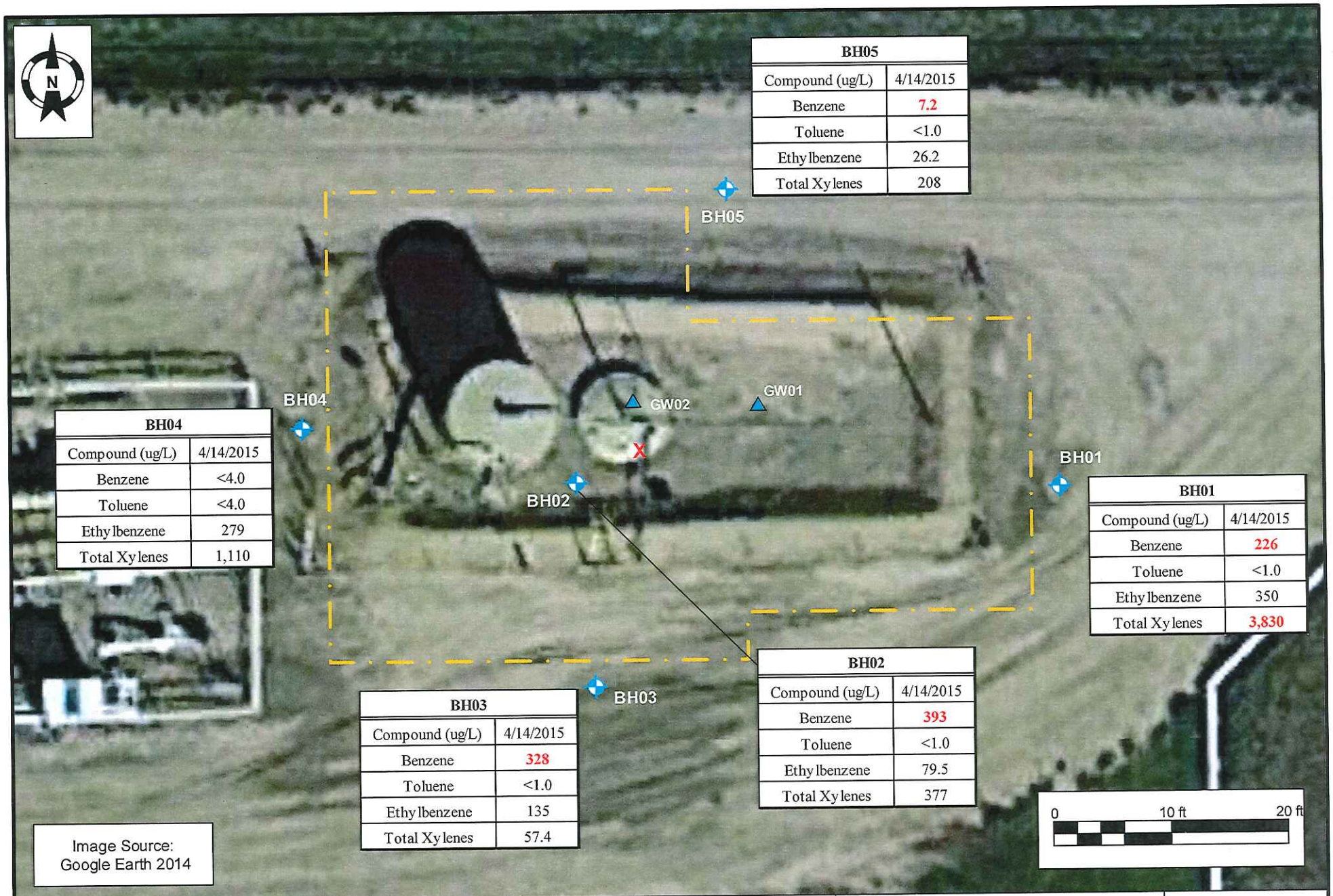
FIGURES



Benzene Concentrations Listed Above Sample ID.
TPH Concentrations Listed Below Sample ID.
Soil concentrations in mg/kg
Groundwater concentrations in ug/L

Image Source:
Google Earth 2014

DRAWN BY: ESS DATE: 4/21/2015	**Facility Diagram** Kerr-McGee Oil and Gas Onshore, LP Albert Sack Unit 1 SWNE S22 T1N R67W Weld County, CO	TASMAN GEOSCIENCES 6899 Pecos St., Unit C Denver, CO 80221	LEGEND Approximate Excavation Extent X Approximate Release Location Approximate Soil Sample Location Approximate Groundwater Sample Location	FIGURE 1 SITE MAP AND SAMPLE LOCATIONS



BH05	
Compound (ug/L)	4/14/2015
Benzene	7.2
Toluene	<1.0
Ethylbenzene	26.2
Total Xylenes	208

BH04	
Compound (ug/L)	4/14/2015
Benzene	<4.0
Toluene	<4.0
Ethylbenzene	279
Total Xylenes	1,110

BH01	
Compound (ug/L)	4/14/2015
Benzene	226
Toluene	<1.0
Ethylbenzene	350
Total Xylenes	3,830

BH03	
Compound (ug/L)	4/14/2015
Benzene	328
Toluene	<1.0
Ethylbenzene	135
Total Xylenes	57.4

BH02	
Compound (ug/L)	4/14/2015
Benzene	393
Toluene	<1.0
Ethylbenzene	79.5
Total Xylenes	377

DRAWN BY: ESS

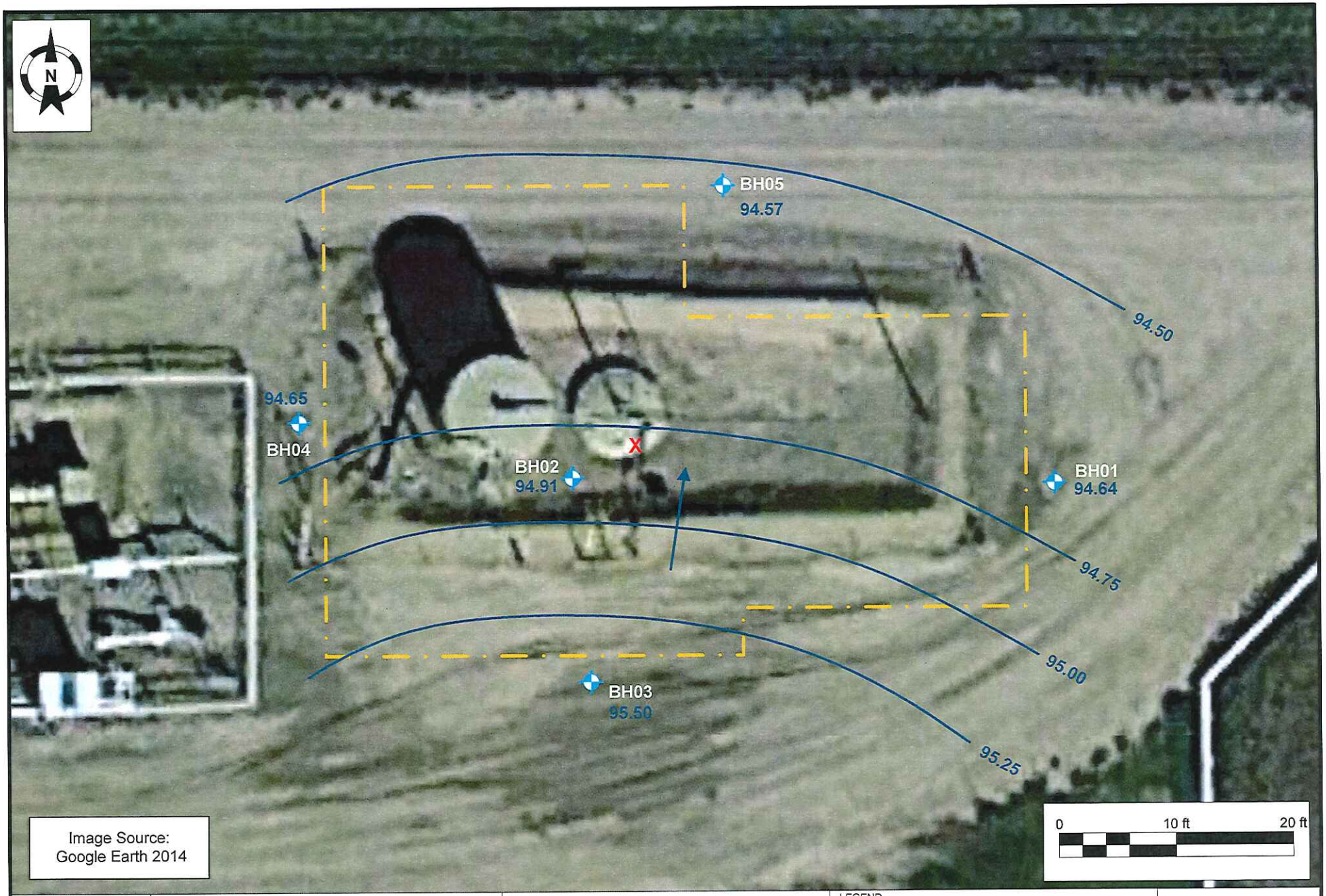
DATE: 4/21/2015

Facility Diagram
Kerr-McGee Oil and Gas Onshore, LP
Albert Sack Unit 1
SWNE S22 T1N R67W
Weld County, CO

TASMAN GEOSCIENCES 6899 Pecos St., Unit C Denver, CO 80221

LEGEND
- Approximate Excavation Extent
- X Approximate Release Location
- Approximate Monitoring Well Location
- Approximate Groundwater Sample Location

FIGURE 2
TEMPORARY WELL LOCATIONS AND GROUNDWATER ANALYTICAL RESULTS



DRAWN BY: ESS DATE: 4/21/2015	**Facility Diagram** Kerr-McGee Oil and Gas Onshore, LP Albert Sack Unit 1 SWNE S22 T1N R67W Weld County, CO	TASMAN GEOSCIENCES 6899 Pecos St., Unit C Denver, CO 80221	LEGEND Approximate Excavation Extent Approximate Release Location Approximate Monitoring Well Location Groundwater Elevation Contour 94.64 Relative Groundwater Elevation Approximate Groundwater Flow Direction	FIGURE 3 GROUNDWATER ELEVATION CONTOUR MAP (APRIL 14, 2015)

ATTACHMENT A

LABORATORY ANALYTICAL REPORTS

ORIGINS LABORATORY, INC

October 31, 2014

Tasman Geosciences
Christine Wasko
6899 Pecos Street, Unit C
Denver CO 80211

Project Name - Albert Sack Unit 1 **Project Number - [none]**

Attached are your analytical results for Albert Sack Unit 1 received by Origins Laboratory, Inc. October 30, 2014. This project is associated with Origins project number X410357-01.

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

ACCREDITED
TESTING CERT # 3494.01

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW01 @ 8	X410357-01	Soil	October 30, 2014 15:10	10/30/2014 16:11
NE01 @ 8	X410357-02	Soil	October 30, 2014 15:13	10/30/2014 16:11
SW01 @ 8	X410357-03	Soil	October 30, 2014 15:15	10/30/2014 16:11
SE01 @ 8	X410357-04	Soil	October 30, 2014 15:17	10/30/2014 16:11
E01 @ 8	X410357-05	Soil	October 30, 2014 15:20	10/30/2014 16:11
GW01	X410357-06	Water	October 30, 2014 15:30	10/30/2014 16:11

Origins Laboratory, Inc.

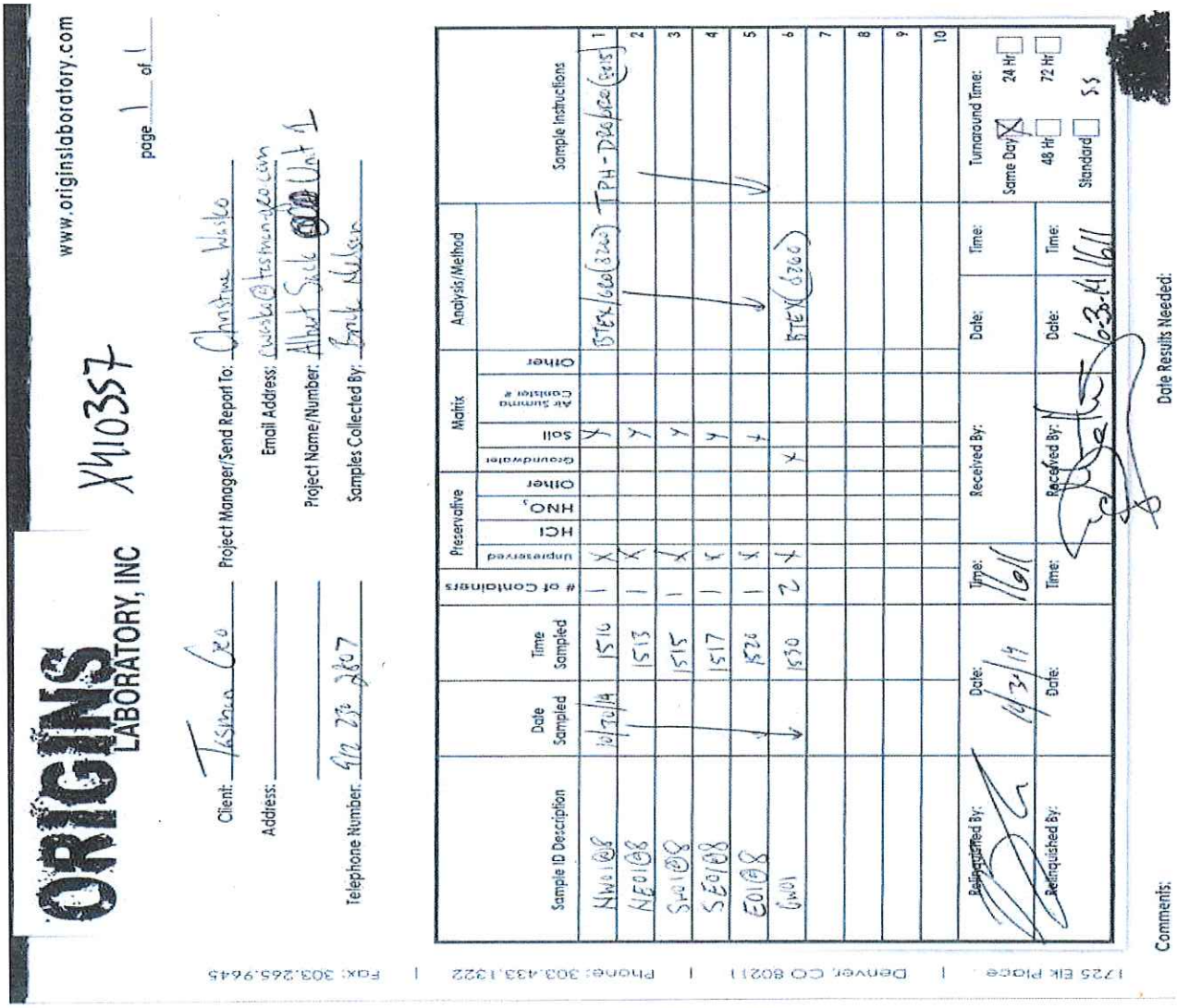
Ross S Hutto For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1



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.

Ross S Hutto For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X410357

Client: Tasman

Client Project ID: Albert Sack Unit 1

Checklist Completed by: Jeff Smith

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

Date/time completed: 10/30/14

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.5 °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]?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact[1]?	X			
Was adequate sample volume provided[1]?	X			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		X		
Is a chain-of-custody (COC) present and filled out completely[1]?	X			
Does the COC agree with the number and type of sample bottles received[1]?	X			
Do the sample IDs on the bottle labels match the COC[1]?	X			
Is the COC properly relinquished by the client with date and time recorded[1]?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**		X	N/A (33)	
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)*		X	N/A (39)	
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)

10/31/14 6:31
Date/Time Reviewed

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

NW01 @ 8
10/30/2014 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X410357-01 (Soil)								
BTEX by EPA 8260C								
Benzene	**0.35**	0.10	mg/kg	50	4J30004	10/30/2014	10/30/2014	
Toluene	ND	0.10	"	"	"	"	"	
Ethylbenzene	**3.07**	0.10	"	"	"	"	"	
Xylenes, total	**10.0**	0.10	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*86.9 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*171 %*	*70-130*			"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene	*114 %*	*70-130*			"	"	"	
TPH-Carbon Chain by EPA Method 8015C								
Gasoline (C6-C10)	**1300**	50.0	mg/kg	1	4J30001	10/30/2014	10/30/2014	
Diesel (C10-C28)	**608**	50.0	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*98.7 %*	*65-146*			"	"	"	

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

NE01 @ 8
10/30/2014 3:13:00PM

Origins Laboratory, Inc.
X410357-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
BTEX by EPA 8260C								
Benzene	ND	0.10	mg/kg	50	4J30004	10/30/2014	10/30/2014	
Toluene	ND	0.10	"	"	"	"	"	
Ethylbenzene	ND	0.10	"	"	"	"	"	
Xylenes, total	ND	0.10	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*85.1 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*110 %*	*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*111 %*	*70-130*			"	"	"	
TPH-Carbon Chain by EPA Method 8015C								
Gasoline (C6-C10)	ND	50.0	mg/kg	1	4J30001	10/30/2014	10/30/2014	
Diesel (C10-C28)	**63.0**	50.0	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*84.9 %*	*65-146*			"	"	"	

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

SW01 @ 8
10/30/2014 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X410357-03 (Soil)								
BTEX by EPA 8260C								
Benzene	**1.01**	0.10	mg/kg	50	4J30004	10/30/2014	10/30/2014	
Toluene	ND	0.10	"	"	"	"	"	
Ethylbenzene	**2.09**	0.10	"	"	"	"	"	
Xylenes, total	**14.3**	0.10	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*87.5 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*130 %*	*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*106 %*	*70-130*			"	"	"	
TPH-Carbon Chain by EPA Method 8015C								
Gasoline (C6-C10)	**339**	50.0	mg/kg	1	4J30001	10/30/2014	10/30/2014	
Diesel (C10-C28)	**175**	50.0	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*71.7 %*	*65-146*			"	"	"	

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

SE01 @ 8
10/30/2014 3:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X410357-04 (Soil)								
BTEX by EPA 8260C								
Benzene	**1.90**	0.10	mg/kg	50	4J30004	10/30/2014	10/30/2014	
Toluene	ND	0.10	"	"	"	"	"	
Ethylbenzene	**5.42**	0.10	"	"	"	"	"	
Xylenes, total	**6.09**	0.10	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*88.3 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*173 %*	*70-130*			"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene	*111 %*	*70-130*			"	"	"	
TPH-Carbon Chain by EPA Method 8015C								
Gasoline (C6-C10)	**235**	50.0	mg/kg	1	4J30001	10/30/2014	10/30/2014	
Diesel (C10-C28)	**203**	50.0	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*99.5 %*	*65-146*			"	"	"	

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

E01 @ 8
10/30/2014 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory, Inc.
X410357-05 (Soil)

BTEX by EPA 8260C

Benzene	**0.05**	0.05	mg/kg	25	4J30004	10/30/2014	10/30/2014
Toluene	ND	0.05	"	"	"	"	"
Ethylbenzene	**0.05**	0.05	"	"	"	"	"
Xylenes, total	ND	0.05	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	*84.4 %*	*70-130*			"	"	"
Surrogate: Toluene-d8	*106 %*	*70-130*			"	"	"
Surrogate: 4-Bromofluorobenzene	*101 %*	*70-130*			"	"	"

TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4J30001	10/30/2014	10/30/2014
Diesel (C10-C28)	ND	50.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"
Surrogate: o-Terphenyl	*86.2 %*	*65-146*			"	"	"

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

GW01
10/30/2014 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory, Inc.

X410357-06 (Water)

BTEX by EPA 8260C

Benzene	**3140**	100	ug/L	100	4J29014	10/30/2014	10/30/2014
Toluene	**1400**	100	"	"	"	"	"
Ethylbenzene	**618**	100	"	"	"	"	"
Xylenes, total	**8040**	100	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	*102 %*	*87.3-113*			"	"	"
Surrogate: Toluene-d8	*101 %*	*90.9-108*			"	"	"
Surrogate: 4-Bromofluorobenzene	*99.0 %*	*88.6-111*			"	"	"

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J29014 - EPA 5030B (Water)										
Blank (4J29014-BLK1)					Prepared: 10/29/2014 Analyzed: 10/30/2014					
Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	*64*		"	*62.5*		*102*	*87.3-113*			
Surrogate: Toluene-d8	*63*		"	*62.5*		*101*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*62*		"	*62.5*		*99.4*	*88.6-111*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J29014 - EPA 5030B (Water)										
LCS (4J29014-BS1)						Prepared: 10/29/2014 Analyzed: 10/30/2014				
Benzene	47.2	1.0	ug/L	50.0		94.4	75-126			
Toluene	46.9	1.0	"	50.0		93.8	78.7-126			
Ethylbenzene	47.2	1.0	"	50.0		94.4	81-130			
m,p-Xylene	93.4	2.0	"	100		93.4	77.2-133			
o-Xylene	46.8	1.0	"	50.0		93.5	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	*59*		"	*62.5*		*94.1*	*87.3-113*			
Surrogate: Toluene-d8	*62*		"	*62.5*		*99.2*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*62*		"	*62.5*		*99.7*	*88.6-111*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J29014 - EPA 5030B (Water)										
Matrix Spike (4J29014-MS1)		**Source: X410322-01**			Prepared: 10/29/2014 Analyzed: 10/30/2014					
Benzene	49.7	1.0	ug/L	50.0	6.3	86.8	74-130			
Toluene	41.8	1.0	"	50.0	ND	83.5	73-131			
Ethylbenzene	42.0	1.0	"	50.0	0.2	83.7	76-132			
m,p-Xylene	84.2	2.0	"	100	ND	84.2	69-139			
o-Xylene	43.9	1.0	"	50.0	ND	87.7	74-131			
Surrogate: 1,2-Dichloroethane-d4	*60*		"	*62.5*		*95.6*	*87.3-113*			
Surrogate: Toluene-d8	*62*		"	*62.5*		*99.2*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*62*		"	*62.5*		*99.8*	*88.6-111*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J29014 - EPA 5030B (Water)										
Matrix Spike Dup (4J29014-MSD1)		**Source: X410322-01**			Prepared: 10/29/2014 Analyzed: 10/30/2014					
Benzene	52.4	1.0	ug/L	50.0	6.3	92.2	74-130	5.29	20	
Toluene	44.6	1.0	"	50.0	ND	89.3	73-131	6.71	20	
Ethylbenzene	44.5	1.0	"	50.0	0.2	88.6	76-132	5.67	20	
m,p-Xylene	88.4	2.0	"	100	ND	88.4	69-139	4.87	20	
o-Xylene	46.6	1.0	"	50.0	ND	93.1	74-131	5.93	20	
Surrogate: 1,2-Dichloroethane-d4	*58*		"	*62.5*		*93.5*	*87.3-113*			
Surrogate: Toluene-d8	*62*		"	*62.5*		*98.9*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*62*		"	*62.5*		*99.9*	*88.6-111*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J30004 - EPA 5030 (soil)										
Blank (4J30004-BLK1)						Prepared: 10/30/2014 Analyzed: 10/30/2014				
Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	*56*		*ug/kg*	*62.5*		*90.1*	*70-130*			
Surrogate: Toluene-d8	*64*		*"*	*62.5*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*63*		*"*	*62.5*		*101*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J30004 - EPA 5030 (soil)										
LCS (4J30004-BS1)						Prepared: 10/30/2014 Analyzed: 10/30/2014				
Benzene	0.09	0.002	mg/kg	0.100		92.3	77.1-124			
Toluene	0.09	0.002	"	0.100		92.6	74.5-128			
Ethylbenzene	0.09	0.002	"	0.100		88.0	66.4-127			
m,p-Xylene	0.17	0.004	"	0.200		85.2	76.6-124			
o-Xylene	0.08	0.002	"	0.100		80.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	*57*		*ug/kg*	*62.5*		*91.6*	*70-130*			
Surrogate: Toluene-d8	*64*		*"*	*62.5*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*63*		*"*	*62.5*		*101*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J30004 - EPA 5030 (soil)										
Matrix Spike (4J30004-MS1)		**Source: X410282-01**			Prepared: 10/30/2014 Analyzed: 10/30/2014					
Benzene	0.09	0.002	mg/kg	0.100	ND	89.4	71.8-126			
Toluene	0.10	0.002	"	0.100	ND	95.1	65.1-130			
Ethylbenzene	0.09	0.002	"	0.100	ND	87.7	62.2-130			
m,p-Xylene	0.18	0.004	"	0.200	ND	89.0	46.5-137			
o-Xylene	0.08	0.002	"	0.100	ND	83.4	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	*57*		*ug/kg*	*62.5*		*91.6*	*70-130*			
Surrogate: Toluene-d8	*64*		*"*	*62.5*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*66*		*"*	*62.5*		*106*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J30004 - EPA 5030 (soil)										
Matrix Spike Dup (4J30004-MSD1)		**Source: X410282-01**			Prepared: 10/30/2014 Analyzed: 10/30/2014					
Benzene	0.09	0.002	mg/kg	0.100	ND	90.2	71.8-126	0.935	11.3	
Toluene	0.09	0.002	"	0.100	ND	94.3	65.1-130	0.908	15.4	
Ethylbenzene	0.09	0.002	"	0.100	ND	88.4	62.2-130	0.818	19.6	
m,p-Xylene	0.17	0.004	"	0.200	ND	84.9	46.5-137	4.73	19.2	
o-Xylene	0.08	0.002	"	0.100	ND	78.3	54.2-134	6.33	17.9	
Surrogate: 1,2-Dichloroethane-d4	*57*		*ug/kg*	*62.5*		*91.9*	*70-130*			
Surrogate: Toluene-d8	*65*		*"*	*62.5*		*104*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*67*		*"*	*62.5*		*107*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J30001 - EPA 3580										
Blank (4J30001-BLK1)						Prepared: 10/29/2014 Analyzed: 10/30/2014				
Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
Residual Range Organics (C28-C36)	ND	200	"							
TPH - Carbon Chain Total	ND	50.0	"							
Surrogate: o-Terphenyl	*54*		*g*	*50.0*		*109*	*65-146*			
LCS (4J30001-BS1)						Prepared: 10/29/2014 Analyzed: 10/30/2014				
Gasoline (C6-C10)	917	50.0	mg/kg	1000		91.7	66.7-119			
Diesel (C10-C28)	1100	50.0	"	1000		110	70.1-127			
Residual Range Organics (C28-C36)	580	200	"	1000		58.0	54.5-139			
Surrogate: o-Terphenyl	*48*		*g*	*50.0*		*96.3*	*65-146*			
Matrix Spike (4J30001-MS1)		**Source: X410298-01**				Prepared: 10/29/2014 Analyzed: 10/30/2014				
Gasoline (C6-C10)	913	50.0	mg/kg	1000	ND	91.3	56.4-132			
Diesel (C10-C28)	1080	50.0	"	1000	15.2	107	57.4-138			
Residual Range Organics (C28-C36)	578	200	"	1000	23.2	55.5	47.7-129			
Surrogate: o-Terphenyl	*45*		*g*	*50.0*		*89.9*	*65-146*			
Matrix Spike Dup (4J30001-MSD1)		**Source: X410298-01**				Prepared: 10/29/2014 Analyzed: 10/30/2014				
Gasoline (C6-C10)	971	50.0	mg/kg	1000	ND	97.1	56.4-132	6.13	22	
Diesel (C10-C28)	1130	50.0	"	1000	15.2	112	57.4-138	4.27	18.3	
Residual Range Organics (C28-C36)	595	200	"	1000	23.2	57.2	47.7-129	2.87	30.1	

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J30001 - EPA 3580										
Matrix Spike Dup (4J30001-MSD1)		**Source: X410298-01**			Prepared: 10/29/2014 Analyzed: 10/30/2014					
Surrogate: o-Terphenyl	*47*		*g*	*50.0*		*93.5*	*65-146*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

November 05, 2014

Tasman Geosciences
Christine Wasko
6899 Pecos Street, Unit C
Denver CO 80211

Project Name - Albert Sack Unit 1 **Project Number - [none]**

Attached are your analytical results for Albert Sack Unit 1 received by Origins Laboratory, Inc. November 04, 2014. This project is associated with Origins project number X411018-01.

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

ACCREDITED
TESTING CERT # 3494.01

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W02 @ 8	X411018-01	Soil	November 4, 2014 12:00	11/04/2014 16:40
SW02 @ 8	X411018-02	Soil	November 4, 2014 14:30	11/04/2014 16:40
SE02 @ 8	X411018-03	Soil	November 4, 2014 14:35	11/04/2014 16:40
SW03 @ 8	X411018-04	Soil	November 4, 2014 14:45	11/04/2014 16:40

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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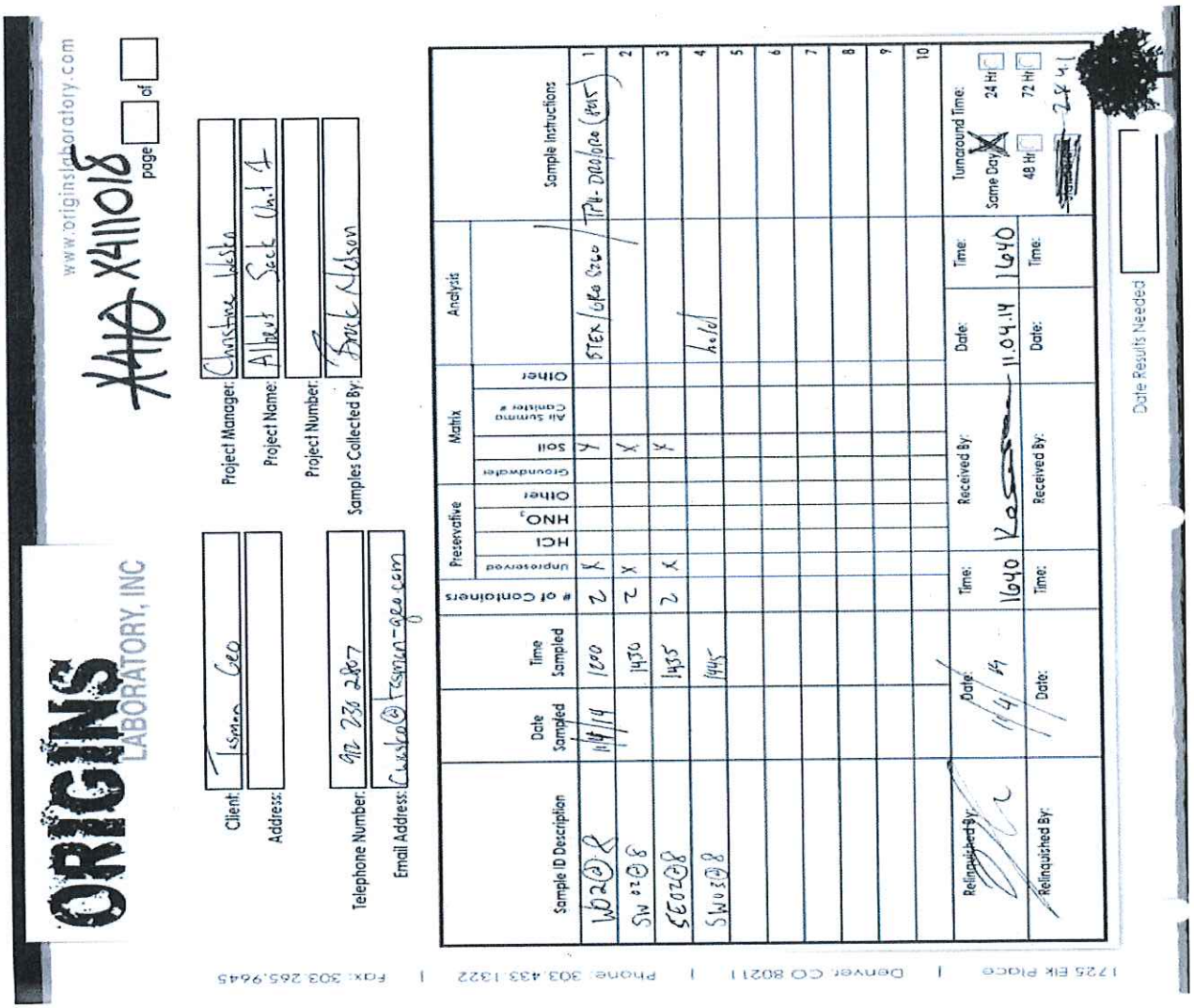
ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1



Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X411018

Client: Tasman
Client Project ID: ALBERT SACK

Checklist Completed by: Jeff Smith
Date/time completed: 11/4/14

Shipped Via: Pick up (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: NA

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

Cooler Number/Temperature: ____/4.1 °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]?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact[1]?	X			
Was adequate sample volume provided[1]?	X			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		X		
Is a chain-of-custody (COC) present and filled out completely[1]?	X			
Does the COC agree with the number and type of sample bottles received[1]?	X			
Do the sample IDs on the bottle labels match the COC[1]?	X			
Is the COC properly relinquished by the client with date and time recorded[1]?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			X	
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)*			X	
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)

11-03-14 1943
Date/Time Reviewed

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

W02 @ 8
11/4/2014 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X411018-01 (Soil)								
DRO/RRO by EPA8015C								
Diesel (C10-C28)	**100**	50	mg/kg	1	4K04013	11/04/2014	11/04/2014	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*62.6 %*	*59-131*			"	"	"	
GBTEX by EPA 8260C								
Gasoline Range Hydrocarbons	**398**	10.0	mg/kg	50	4K04011	11/04/2014	11/04/2014	
Benzene	ND	0.100	"	"	"	"	"	
Toluene	ND	0.100	"	"	"	"	"	
Ethylbenzene	**0.390**	0.100	"	"	"	"	"	
Xylenes, total	**2.07**	0.100	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*105 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*109 %*	*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*97.4 %*	*70-130*			"	"	"	

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

SW02 @ 8
11/4/2014 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X411018-02 (Soil)								
DRO/RRO by EPA8015C								
Diesel (C10-C28)	ND	50	mg/kg	1	4K04013	11/04/2014	11/04/2014	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*62.1 %*	*59-131*			"	"	"	
GBTEX by EPA 8260C								
Gasoline Range Hydrocarbons	**124**	10.0	mg/kg	50	4K04011	11/04/2014	11/04/2014	
Benzene	**0.245**	0.100	"	"	"	"	"	
Toluene	ND	0.100	"	"	"	"	"	
Ethylbenzene	**0.214**	0.100	"	"	"	"	"	
Xylenes, total	**0.283**	0.100	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*98.2 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*98.6 %*	*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*91.6 %*	*70-130*			"	"	"	

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

SE02 @ 8
11/4/2014 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X411018-03 (Soil)								
DRO/RRO by EPA8015C								
Diesel (C10-C28)	ND	50	mg/kg	1	4K04013	11/04/2014	11/04/2014	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*67.3 %*	*59-131*			"	"	"	
GBTEX by EPA 8260C								
Gasoline Range Hydrocarbons	**0.414**	0.200	mg/kg	1	4K04011	11/04/2014	11/04/2014	
Benzene	**0.0029**	0.0020	"	"	"	"	"	
Toluene	ND	0.0020	"	"	"	"	"	
Ethylbenzene	ND	0.0020	"	"	"	"	"	
Xylenes, total	ND	0.0020	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*88.8 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*98.6 %*	*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*92.1 %*	*70-130*			"	"	"	

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

SW03 @ 8
11/4/2014 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X411018-04 (Soil)								
DRO/RRO by EPA8015C								
Diesel (C10-C28)	ND	50	mg/kg	1	4K04013	11/04/2014	11/04/2014	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*68.3 %*	*59-131*			"	"	"	
GBTEX by EPA 8260C								
Gasoline Range Hydrocarbons	**8.08**	0.200	mg/kg	1	4K04011	11/04/2014	11/04/2014	
Benzene	**0.0200**	0.0020	"	"	"	"	"	
Toluene	ND	0.0020	"	"	"	"	"	
Ethylbenzene	ND	0.0020	"	"	"	"	"	
Xylenes, total	**0.0050**	0.0020	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*106 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*108 %*	*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*98.0 %*	*70-130*			"	"	"	

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K04011 - EPA 5030 (soil)										
Blank (4K04011-BLK1)					Prepared: 11/04/2014 Analyzed: 11/04/2014					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0020	"							
Ethylbenzene	ND	0.0020	"							
Xylenes, total	ND	0.0020	"							
Surrogate: 1,2-Dichloroethane-d4	*57.8*		*ug/kg*	*62.5*		*92.5*	*70-130*			
Surrogate: Toluene-d8	*49.4*		*"*	*62.5*		*79.1*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*49.6*		*"*	*62.5*		*79.4*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K04011 - EPA 5030 (soil)										
LCS (4K04011-BS1)				Prepared: 11/04/2014 Analyzed: 11/04/2014						
Benzene	0.104	0.0020	mg/kg	0.100		104	77.1-124			
Toluene	0.0888	0.0020	"	0.100		88.8	74.5-128			
Ethylbenzene	0.0932	0.0020	"	0.100		93.2	66.4-127			
m,p-Xylene	0.176	0.0040	"	0.200		88.0	76.6-124			
o-Xylene	0.0858	0.0020	"	0.100		85.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	*59.8*		*ug/kg*	*62.5*		*95.7*	*70-130*			
Surrogate: Toluene-d8	*62.4*		"	*62.5*		*99.8*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*54.7*		"	*62.5*		*87.5*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K04011 - EPA 5030 (soil)										
Matrix Spike (4K04011-MS1)		**Source: X411015-01**			Prepared: 11/04/2014 Analyzed: 11/04/2014					
Benzene	0.115	0.0020	mg/kg	0.100	ND	115	71.8-126			
Toluene	0.110	0.0020	"	0.100	ND	110	65.1-130			
Ethylbenzene	0.106	0.0020	"	0.100	ND	106	62.2-130			
m,p-Xylene	0.195	0.0040	"	0.200	ND	97.6	46.5-137			
o-Xylene	0.0968	0.0020	"	0.100	ND	96.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	*63.1*		*ug/kg*	*62.5*		*101*	*70-130*			
Surrogate: Toluene-d8	*65.2*		*"*	*62.5*		*104*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*54.7*		*"*	*62.5*		*87.6*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K04011 - EPA 5030 (soil)										
Matrix Spike Dup (4K04011-MSD1)		**Source: X411015-01**			Prepared: 11/04/2014 Analyzed: 11/04/2014					
Benzene	0.102	0.0020	mg/kg	0.100	ND	102	71.8-126	12.7	11.3	QM-07
Toluene	0.0954	0.0020	"	0.100	ND	95.4	65.1-130	14.0	15.4	
Ethylbenzene	0.0961	0.0020	"	0.100	ND	96.1	62.2-130	9.50	19.6	
m,p-Xylene	0.179	0.0040	"	0.200	ND	89.3	46.5-137	8.86	19.2	
o-Xylene	0.0870	0.0020	"	0.100	ND	87.0	54.2-134	10.7	17.9	
Surrogate: 1,2-Dichloroethane-d4	*61.3*		*ug/kg*	*62.5*		*98.0*	*70-130*			
Surrogate: Toluene-d8	*63.7*		*"*	*62.5*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*56.4*		*"*	*62.5*		*90.3*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K04013 - EPA 3580										
Blank (4K04013-BLK1)						Prepared: 11/04/2014 Analyzed: 11/04/2014				
Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	*38*		*g*	*50.0*		*75.7*	*59-131*			
LCS (4K04013-BS1)						Prepared: 11/04/2014 Analyzed: 11/04/2014				
Diesel (C10-C28)	1200	50	mg/kg	1000		115	64-121			
Residual Range Organics (C28-C36)	940	200	"	1000		94.0	58-124			
Surrogate: o-Terphenyl	*47*		*g*	*50.0*		*94.2*	*59-131*			
Matrix Spike (4K04013-MS1)		**Source: X411021-01**				Prepared: 11/04/2014 Analyzed: 11/04/2014				
Diesel (C10-C28)	3200	50	mg/kg	1000	2100	116	53-125			
Residual Range Organics (C28-C36)	1200	200	"	1000	350	82.2	47-133			
Surrogate: o-Terphenyl	*52*		*g*	*50.0*		*105*	*59-131*			
Matrix Spike Dup (4K04013-MSD1)		**Source: X411021-01**				Prepared: 11/04/2014 Analyzed: 11/04/2014				
Diesel (C10-C28)	3200	50	mg/kg	1000	2100	114	53-125	0.647	20	
Residual Range Organics (C28-C36)	1200	200	"	1000	350	81.5	47-133	0.590	20	
Surrogate: o-Terphenyl	*51*		*g*	*50.0*		*102*	*59-131*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

November 06, 2014

Tasman Geosciences
Christine Wasko
6899 Pecos Street, Unit C
Denver CO 80211

Project Name - Albert Sack Unit 1 **Project Number - [none]**

Attached are your analytical results for Albert Sack Unit 1 received by Origins Laboratory, Inc. November 05, 2014. This project is associated with Origins project number X411034-01.

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

ACCREDITED
TESTING CERT # 3494.01

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW02 @ 8	X411034-01	Soil	November 5, 2014 12:15	11/05/2014 15:13
GW02	X411034-02	Water	November 5, 2014 11:30	11/05/2014 15:13

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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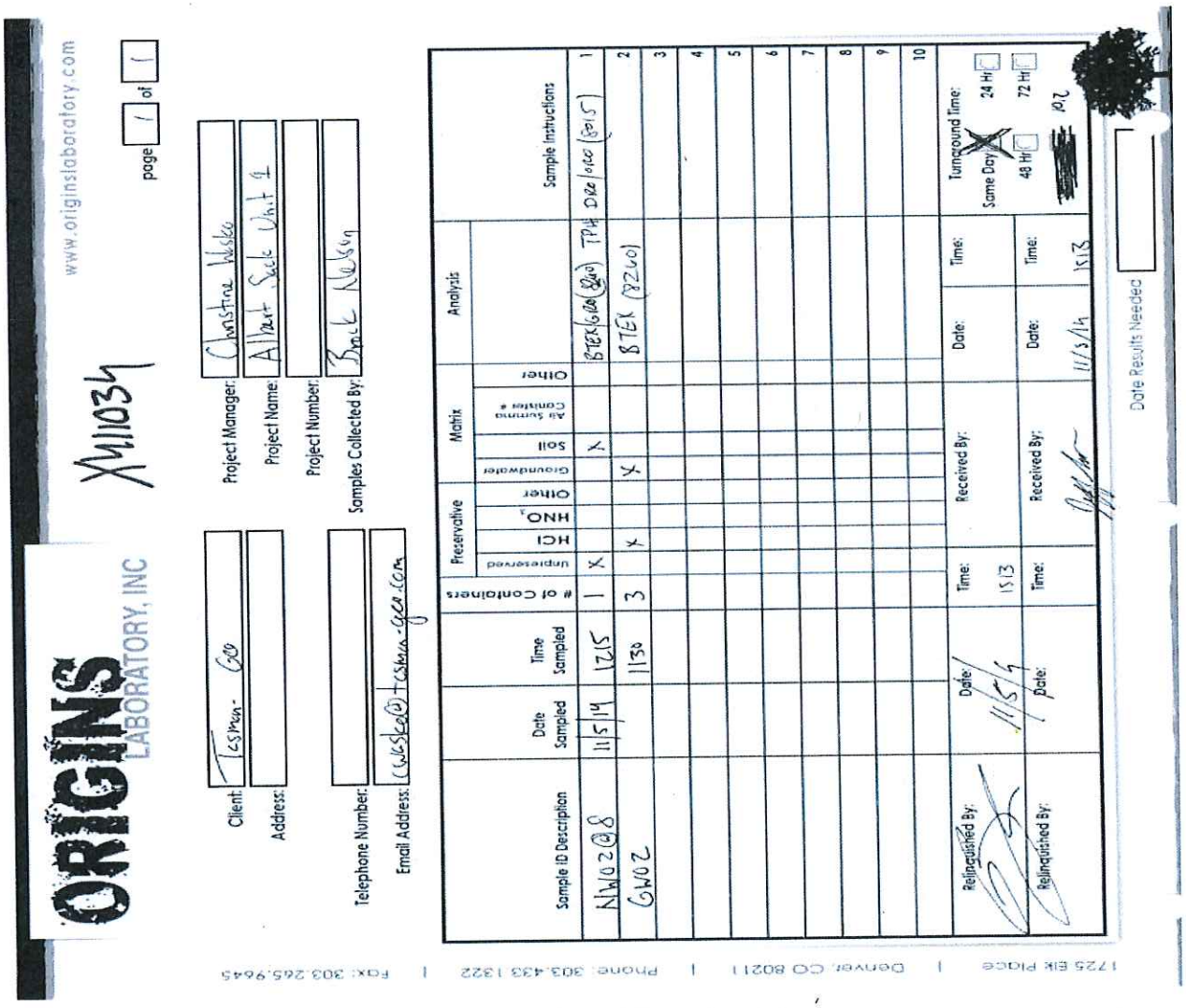
ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1



Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XH11034

Client: Tasman
Client Project ID: Albert Sack Unit 1

Checklist Completed by: Jake Smith
Date/time completed: 11/5/14

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

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

Cooler Number/Temperature: 1 / 10.2 °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]?		X		Sampled Same Day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact[1]?	X			
Was adequate sample volume provided[1]?	X			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		X		
Is a chain-of-custody (COC) present and filled out completely[1]?	X			
Does the COC agree with the number and type of sample bottles received[1]?	X			
Do the sample IDs on the bottle labels match the COC[1]?	X			
Is the COC properly relinquished by the client with date and time recorded[1]?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**		X		
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)*	X			HCL
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) 11-5-14 Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

NW02 @ 8
11/5/2014 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X411034-01 (Soil)								
DRO/RRO by EPA8015C								
Diesel (C10-C28)	ND	50	mg/kg	1	4K05011	11/05/2014	11/05/2014	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*103 %*	*59-131*			"	"	"	
GBTEX by EPA 8260C								
Gasoline Range Hydrocarbons	**11.0**	5.00	mg/kg	25	4K05005	11/05/2014	11/05/2014	
Benzene	ND	0.0500	"	"	"	"	"	
Toluene	ND	0.0500	"	"	"	"	"	
Ethylbenzene	ND	0.0500	"	"	"	"	"	
Xylenes, total	ND	0.0500	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*96.7 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*99.8 %*	*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*99.0 %*	*70-130*			"	"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

GW02
11/5/2014 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X411034-02 (Water)								
BTEX by EPA 8260C								
Benzene	**2250**	200	ug/L	200	4K05009	11/05/2014	11/06/2014	
Toluene	**564**	200	"	"	"	"	"	
Ethylbenzene	**354**	200	"	"	"	"	"	
Xylenes, total	**4420**	200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*102 %*	*87.3-113*			"	"	"	
Surrogate: Toluene-d8	*99.5 %*	*90.9-108*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*98.3 %*	*88.6-111*			"	"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K05005 - EPA 5030 (soil)										
Blank (4K05005-BLK1)				Prepared: 11/05/2014 Analyzed: 11/05/2014						
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0020	"							
Ethylbenzene	ND	0.0020	"							
m,p-Xylene	ND	0.0040	"							
o-Xylene	ND	0.0020	"							
Xylenes, total	ND	0.0020	"							
Surrogate: 1,2-Dichloroethane-d4	*71.8*		*ug/kg*	*62.5*		*115*	*70-130*			
Surrogate: Toluene-d8	*64.3*		*"*	*62.5*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*63.9*		*"*	*62.5*		*102*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K05005 - EPA 5030 (soil)										
LCS (4K05005-BS1)				Prepared: 11/05/2014 Analyzed: 11/05/2014						
Benzene	0.101	0.0020	mg/kg	0.100		101	77.1-124			
Toluene	0.0985	0.0020	"	0.100		98.5	74.5-128			
Ethylbenzene	0.0940	0.0020	"	0.100		94.0	66.4-127			
m,p-Xylene	0.182	0.0040	"	0.200		91.2	76.6-124			
o-Xylene	0.0845	0.0020	"	0.100		84.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	*75.9*		*ug/kg*	*62.5*		*121*	*70-130*			
Surrogate: Toluene-d8	*65.5*		*"*	*62.5*		*105*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*56.6*		*"*	*62.5*		*90.5*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K05005 - EPA 5030 (soil)										
Matrix Spike (4K05005-MS1)		**Source: X411024-01**			Prepared: 11/05/2014 Analyzed: 11/05/2014					
Benzene	0.118	0.0020	mg/kg	0.100	ND	118	71.8-126			
Toluene	0.113	0.0020	"	0.100	0.0010	112	65.1-130			
Ethylbenzene	0.112	0.0020	"	0.100	ND	112	62.2-130			
m,p-Xylene	0.217	0.0040	"	0.200	0.0014	108	46.5-137			
o-Xylene	0.104	0.0020	"	0.100	0.0005	104	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	*74.7*		*ug/kg*	*62.5*		*120*	*70-130*			
Surrogate: Toluene-d8	*64.8*		*"*	*62.5*		*104*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*55.8*		*"*	*62.5*		*89.4*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K05005 - EPA 5030 (soil)										
Matrix Spike Dup (4K05005-MSD1)		**Source: X411024-01**			Prepared: 11/05/2014 Analyzed: 11/05/2014					
Benzene	0.112	0.0020	mg/kg	0.100	ND	112	71.8-126	5.05	11.3	
Toluene	0.114	0.0020	"	0.100	0.0010	113	65.1-130	0.813	15.4	
Ethylbenzene	0.112	0.0020	"	0.100	ND	112	62.2-130	0.589	19.6	
m,p-Xylene	0.219	0.0040	"	0.200	0.0014	109	46.5-137	0.541	19.2	
o-Xylene	0.103	0.0020	"	0.100	0.0005	103	54.2-134	0.751	17.9	
Surrogate: 1,2-Dichloroethane-d4	*73.2*		*ug/kg*	*62.5*		*117*	*70-130*			
Surrogate: Toluene-d8	*66.4*		*"*	*62.5*		*106*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*58.1*		*"*	*62.5*		*92.9*	*70-130*			

Origins Laboratory, Inc.

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K05009 - EPA 5030B (Water)										
Blank (4K05009-BLK1)						Prepared: 11/05/2014 Analyzed: 11/05/2014				
Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	*64*		"	*62.5*		*103*	*87.3-113*			
Surrogate: Toluene-d8	*62*		"	*62.5*		*99.4*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*62*		"	*62.5*		*98.7*	*88.6-111*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K05009 - EPA 5030B (Water)										
LCS (4K05009-BS1)					Prepared: 11/05/2014 Analyzed: 11/05/2014					
Benzene	44.4	1.0	ug/L	50.0		88.8	75-126			
Toluene	43.2	1.0	"	50.0		86.4	78.7-126			
Ethylbenzene	42.7	1.0	"	50.0		85.5	81-130			
m,p-Xylene	85.6	2.0	"	100		85.6	77.2-133			
o-Xylene	43.7	1.0	"	50.0		87.5	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	*62*		"	*62.5*		*98.6*	*87.3-113*			
Surrogate: Toluene-d8	*62*		"	*62.5*		*98.5*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*62*		"	*62.5*		*99.8*	*88.6-111*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K05009 - EPA 5030B (Water)										
Matrix Spike (4K05009-MS1)		**Source: X410353-08**			Prepared: 11/05/2014 Analyzed: 11/06/2014					
Benzene	45.7	1.0	ug/L	50.0	ND	91.3	74-130			
Toluene	44.1	1.0	"	50.0	ND	88.1	73-131			
Ethylbenzene	42.5	1.0	"	50.0	ND	85.0	76-132			
m,p-Xylene	85.7	2.0	"	100	ND	85.7	69-139			
o-Xylene	46.2	1.0	"	50.0	ND	92.4	74-131			
Surrogate: 1,2-Dichloroethane-d4	*61*		"	*62.5*		*97.8*	*87.3-113*			
Surrogate: Toluene-d8	*62*		"	*62.5*		*99.2*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*63*		"	*62.5*		*100*	*88.6-111*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K05009 - EPA 5030B (Water)										
Matrix Spike Dup (4K05009-MSD1)		**Source: X410353-08**			Prepared: 11/05/2014 Analyzed: 11/06/2014					
Benzene	50.0	1.0	ug/L	50.0	ND	100	74-130	9.01	20	
Toluene	49.5	1.0	"	50.0	ND	99.0	73-131	11.6	20	
Ethylbenzene	49.9	1.0	"	50.0	ND	99.8	76-132	16.0	20	
m,p-Xylene	99.8	2.0	"	100	ND	99.8	69-139	15.1	20	
o-Xylene	50.1	1.0	"	50.0	ND	100	74-131	8.10	20	
Surrogate: 1,2-Dichloroethane-d4	*60*		"	*62.5*		*96.7*	*87.3-113*			
Surrogate: Toluene-d8	*62*		"	*62.5*		*99.3*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*62*		"	*62.5*		*99.2*	*88.6-111*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K05011 - EPA 3580										
Blank (4K05011-BLK1)						Prepared: 11/05/2014 Analyzed: 11/05/2014				
Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	*46*		*g*	*250*		*18.4*	*59-131*			
LCS (4K05011-BS1)						Prepared: 11/05/2014 Analyzed: 11/05/2014				
Diesel (C10-C28)	950	50	mg/kg	1000		95.5	64-121			
Residual Range Organics (C28-C36)	810	200	"	1000		81.4	58-124			
Surrogate: o-Terphenyl	*44*		*g*	*50.0*		*89.0*	*59-131*			
Matrix Spike (4K05011-MS1)		**Source: X411034-01**				Prepared: 11/05/2014 Analyzed: 11/05/2014				
Diesel (C10-C28)	960	50	mg/kg	1000	27	93.2	53-125			
Residual Range Organics (C28-C36)	770	200	"	1000	24	74.6	47-133			
Surrogate: o-Terphenyl	*42*		*g*	*50.0*		*84.5*	*59-131*			
Matrix Spike Dup (4K05011-MSD1)		**Source: X411034-01**				Prepared: 11/05/2014 Analyzed: 11/05/2014				
Diesel (C10-C28)	960	50	mg/kg	1000	27	93.3	53-125	0.131	20	
Residual Range Organics (C28-C36)	770	200	"	1000	24	74.3	47-133	0.337	20	
Surrogate: o-Terphenyl	*42*		*g*	*50.0*		*84.5*	*59-131*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

November 11, 2014

Tasman Geosciences
Christine Wasko
6899 Pecos Street, Unit C
Denver CO 80211

Project Name - Albert Sack Unit 1 **Project Number - [none]**

Attached are your analytical results for Albert Sack Unit 1 received by Origins Laboratory, Inc. November 10, 2014. This project is associated with Origins project number X411094-01.

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

ACCREDITED
TESTING CERT # 3494.01

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E02 @ 8	X411094-01	Soil	November 10, 2014 15:20	11/10/2014 17:04

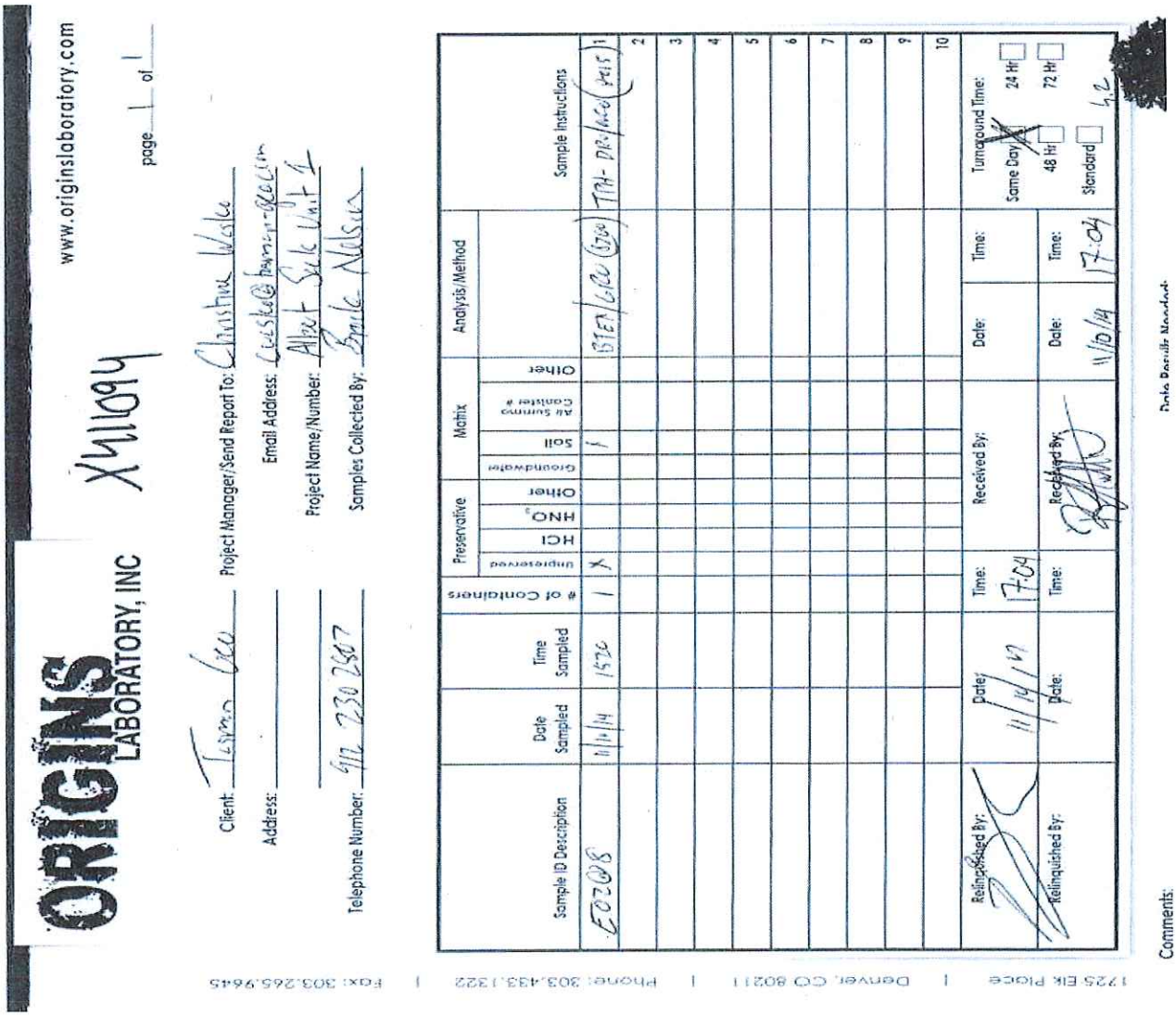
Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1



Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X411094

Client: Tasman
Client Project ID: Albert Sack Unit 1

Checklist Completed by: Lee Smith
Shipped Via: Pick up (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 11/10/14
Airbill #: NA

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

Cooler Number/Temperature: 1 / 4.2 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C

Thermometer ID: IR03

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

11/10/14 18:22
Date/Time Reviewed

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

E02 @ 8
11/10/2014 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X411094-01 (Soil)								
DRO/RRO by EPA8015C								
Diesel (C10-C28)	**290**	50	mg/kg	1	4K10005	11/10/2014	11/10/2014	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*87.8 %*	*59-131*			"	"	"	
GBTEX by EPA 8260C								
Gasoline Range Hydrocarbons	**275**	5.00	mg/kg	25	4K10006	11/10/2014	11/10/2014	
Benzene	**0.759**	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	
Ethylbenzene	**0.106**	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*96.0 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*127 %*	*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*112 %*	*70-130*			"	"	"	

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K10006 - EPA 5030 (soil)										
Blank (4K10006-BLK1)				Prepared: 11/10/2014 Analyzed: 11/10/2014						
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	*63.0*		*ug/kg*	*62.5*		*101*	*70-130*			
Surrogate: Toluene-d8	*63.8*		*"*	*62.5*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*62.5*		*"*	*62.5*		*100*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K10006 - EPA 5030 (soil)										
LCS (4K10006-BS1)				Prepared: 11/10/2014 Analyzed: 11/10/2014						
Benzene	0.219	0.002	mg/kg	0.200		110	77.1-124			
Toluene	0.213	0.002	"	0.200		107	74.5-128			
Ethylbenzene	0.210	0.002	"	0.200		105	66.4-127			
m,p-Xylene	0.414	0.004	"	0.400		104	76.6-124			
o-Xylene	0.216	0.002	"	0.200		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	*59.3*		*ug/kg*	*62.5*		*94.9*	*70-130*			
Surrogate: Toluene-d8	*61.7*		*"*	*62.5*		*98.8*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*65.4*		*"*	*62.5*		*105*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K10006 - EPA 5030 (soil)										
Matrix Spike (4K10006-MS1)		**Source: X411073-03**			Prepared: 11/10/2014 Analyzed: 11/10/2014					**QM-07**
Benzene	0.203	0.002	mg/kg	0.200	ND	102	71.8-126			
Toluene	0.200	0.002	"	0.200	ND	100	65.1-130			
Ethylbenzene	0.191	0.002	"	0.200	ND	95.5	62.2-130			
m,p-Xylene	0.378	0.004	"	0.400	0.500	NR	46.5-137			
o-Xylene	0.192	0.002	"	0.200	0.200	NR	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	*61.2*		*ug/kg*	*62.5*		*97.9*	*70-130*			
Surrogate: Toluene-d8	*62.2*		*"*	*62.5*		*99.6*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*63.8*		*"*	*62.5*		*102*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K10006 - EPA 5030 (soil)										
Matrix Spike Dup (4K10006-MSD1)		**Source: X411073-03**			Prepared: 11/10/2014 Analyzed: 11/10/2014					**QM-07**
Benzene	0.218	0.002	mg/kg	0.200	ND	109	71.8-126		11.3	
Toluene	0.208	0.002	"	0.200	ND	104	65.1-130		15.4	
Ethylbenzene	0.207	0.002	"	0.200	ND	103	62.2-130		19.6	
m,p-Xylene	0.397	0.004	"	0.400	0.500	NR	46.5-137		19.2	
o-Xylene	0.204	0.002	"	0.200	0.200	2.11	54.2-134	6.13	17.9	
Surrogate: 1,2-Dichloroethane-d4	*61.2*		*ug/kg*	*62.5*		*98.0*	*70-130*			
Surrogate: Toluene-d8	*62.3*		*"*	*62.5*		*99.6*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*64.2*		*"*	*62.5*		*103*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K10005 - EPA 3580										
Blank (4K10005-BLK1)						Prepared: 11/10/2014 Analyzed: 11/10/2014				
Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	*52*		*g*	*50.0*		*104*	*59-131*			
LCS (4K10005-BS1)						Prepared: 11/10/2014 Analyzed: 11/10/2014				
Diesel (C10-C28)	900	50	mg/kg	1000		90.2	64-121			
Residual Range Organics (C28-C36)	640	200	"	1000		64.0	58-124			
Surrogate: o-Terphenyl	*41*		*g*	*50.0*		*81.2*	*59-131*			
Matrix Spike (4K10005-MS1)		**Source: X411073-03**				Prepared: 11/10/2014 Analyzed: 11/10/2014				
Diesel (C10-C28)	990	50	mg/kg	1000	63	92.8	53-125			
Residual Range Organics (C28-C36)	730	200	"	1000	41	68.5	47-133			
Surrogate: o-Terphenyl	*43*		*g*	*50.0*		*86.9*	*59-131*			
Matrix Spike Dup (4K10005-MSD1)		**Source: X411073-03**				Prepared: 11/10/2014 Analyzed: 11/10/2014				
Diesel (C10-C28)	1100	50	mg/kg	1000	63	103	53-125	10.2	20	
Residual Range Organics (C28-C36)	820	200	"	1000	41	77.8	47-133	12.1	20	
Surrogate: o-Terphenyl	*48*		*g*	*50.0*		*96.9*	*59-131*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

November 12, 2014

Tasman Geosciences
Christine Wasko
6899 Pecos Street, Unit C
Denver CO 80211

Project Name - Albert Sack Unit 1 **Project Number - [none]**

Attached are your analytical results for Albert Sack Unit 1 received by Origins Laboratory, Inc. November 11, 2014. This project is associated with Origins project number X411111-01.

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

ACCREDITED
TESTING CERT # 3494.01

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E03 @ 8	X411111-01	Soil	November 11, 2014 12:02	11/11/2014 16:45

Origins Laboratory, Inc.

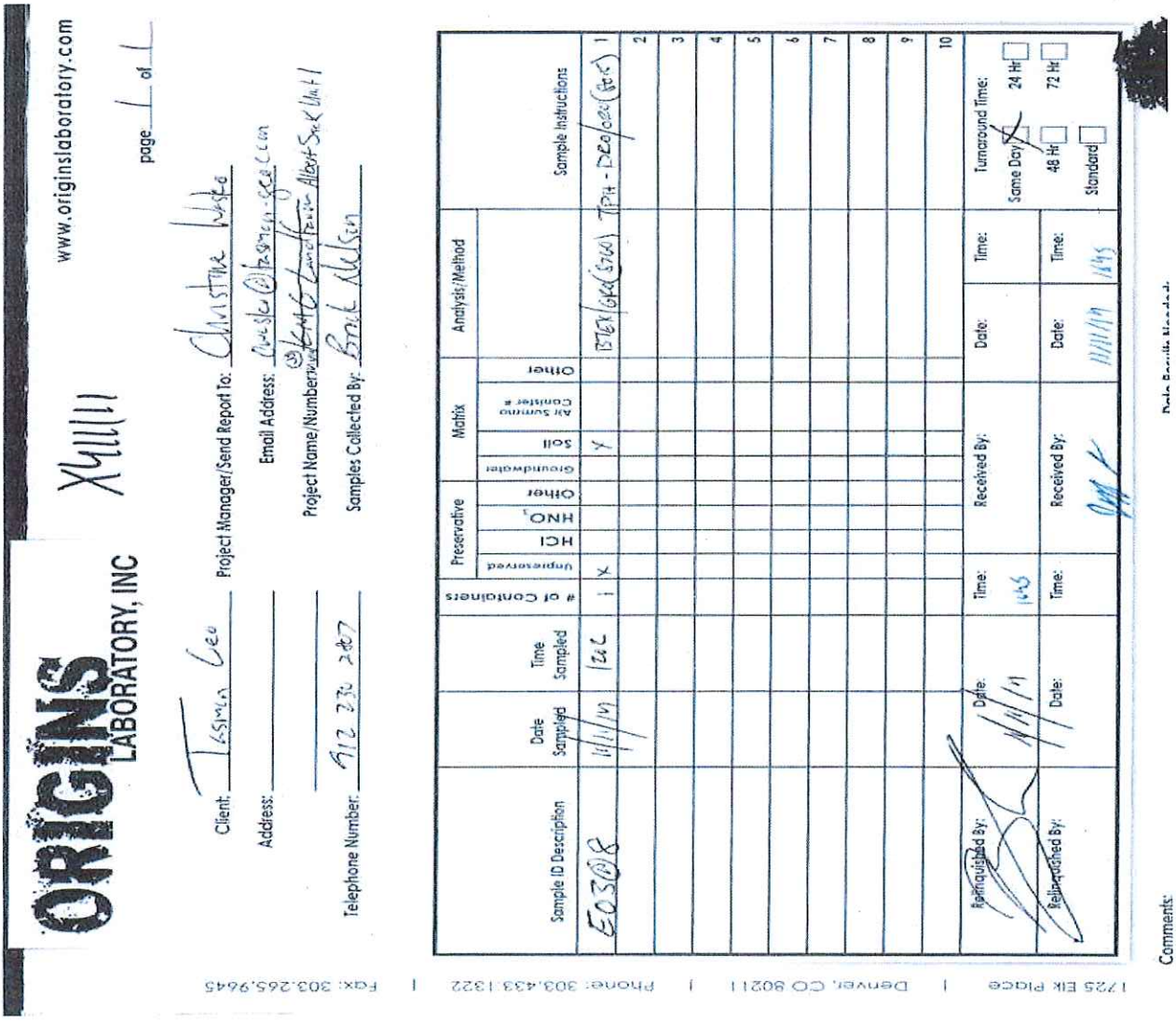
Ross S Hutto For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1



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.

Ross S Hutto For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X411111

Client: Tasman

Client Project ID: ~~[illegible]~~ Albert Sack Unit 1

Checklist Completed by: Jose Smith

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

Date/time completed: 11/11/14

Airbill #: NA

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

Cooler Number/Temperature: ____/4.9 °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]?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact[1]?	X			
Was adequate sample volume provided[1]?	X			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		X		
Is a chain-of-custody (COC) present and filled out completely[1]?	X			
Does the COC agree with the number and type of sample bottles received[1]?	X			
Do the sample IDs on the bottle labels match the COC[1]?	X			
Is the COC properly relinquished by the client with date and time recorded[1]?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			X	
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)*			X	

Additional Comments (if any): Brock D. instructed me by phone conversation to revise Project name on COC to Albert Sack Unit 1

11/11/14

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

Reviewed by (Project Manager)

11/12/14 8:29
Date/Time Reviewed

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

E03 @ 8
11/11/2014 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X411111-01 (Soil)								
DRO/RRO by EPA8015C								
Diesel (C10-C28)	ND	50	mg/kg	1	4K11007	11/11/2014	11/11/2014	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*74.0 %*	*59-131*			"	"	"	
GBTEX by EPA 8260C								
Gasoline Range Hydrocarbons	**4.48**	0.200	mg/kg	1	4K11008	11/11/2014	11/11/2014	
Benzene	**0.091**	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	**0.004**	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*96.2 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*114 %*	*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*113 %*	*70-130*			"	"	"	

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K11008 - EPA 5030 (soil)										
Blank (4K11008-BLK1)				Prepared: 11/11/2014 Analyzed: 11/11/2014						
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	*59.0*		*ug/kg*	*62.5*		*94.4*	*70-130*			
Surrogate: Toluene-d8	*61.0*		*"*	*62.5*		*97.6*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*62.9*		*"*	*62.5*		*101*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K11008 - EPA 5030 (soil)										
LCS (4K11008-BS1)					Prepared: 11/11/2014 Analyzed: 11/11/2014					
Benzene	0.113	0.002	mg/kg	0.100		113	77.1-124			
Toluene	0.110	0.002	"	0.100		110	74.5-128			
Ethylbenzene	0.100	0.002	"	0.100		99.6	66.4-127			
m,p-Xylene	0.224	0.004	"	0.200		112	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	*58.7*		*ug/kg*	*62.5*		*93.9*	*70-130*			
Surrogate: Toluene-d8	*61.6*		*"*	*62.5*		*98.5*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*63.6*		*"*	*62.5*		*102*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K11008 - EPA 5030 (soil)										
Matrix Spike (4K11008-MS1)		**Source: X411069-01**			Prepared: 11/11/2014 Analyzed: 11/11/2014					
Benzene	0.106	0.002	mg/kg	0.100	ND	106	71.8-126			
Toluene	0.105	0.002	"	0.100	ND	105	65.1-130			
Ethylbenzene	0.094	0.002	"	0.100	0.002	92.0	62.2-130			
m,p-Xylene	0.207	0.004	"	0.200	ND	103	46.5-137			
o-Xylene	0.093	0.002	"	0.100	ND	93.0	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	*58.5*		*ug/kg*	*62.5*		*93.6*	*70-130*			
Surrogate: Toluene-d8	*63.9*		*"*	*62.5*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*63.2*		*"*	*62.5*		*101*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K11008 - EPA 5030 (soil)										
Matrix Spike Dup (4K11008-MSD1)		**Source: X411069-01**			Prepared: 11/11/2014 Analyzed: 11/11/2014					
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126	2.73	11.3	
Toluene	0.105	0.002	"	0.100	ND	105	65.1-130	0.115	15.4	
Ethylbenzene	0.093	0.002	"	0.100	0.002	91.3	62.2-130	0.706	19.6	
m,p-Xylene	0.205	0.004	"	0.200	ND	103	46.5-137	0.602	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	93.1	54.2-134	0.0215	17.9	
Surrogate: 1,2-Dichloroethane-d4	*58.7*		*ug/kg*	*62.5*		*93.9*	*70-130*			
Surrogate: Toluene-d8	*62.4*		*"*	*62.5*		*99.8*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*62.5*		*"*	*62.5*		*100*	*70-130*			

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

November 17, 2014

Tasman Geosciences
Christine Wasko
6899 Pecos Street, Unit C
Denver CO 80211

Project Name - Albert Sack Unit 1 **Project Number - [none]**

Attached are your analytical results for Albert Sack Unit 1 received by Origins Laboratory, Inc. November 14, 2014. This project is associated with Origins project number X411138-01.

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

ACCREDITED
TESTING CERT # 3494.01

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E04@8	X411138-01	Soil	November 14, 2014 12:45	11/14/2014 18:20
W03@8	X411138-02	Soil	November 14, 2014 12:50	11/14/2014 18:20

Origins Laboratory, Inc.

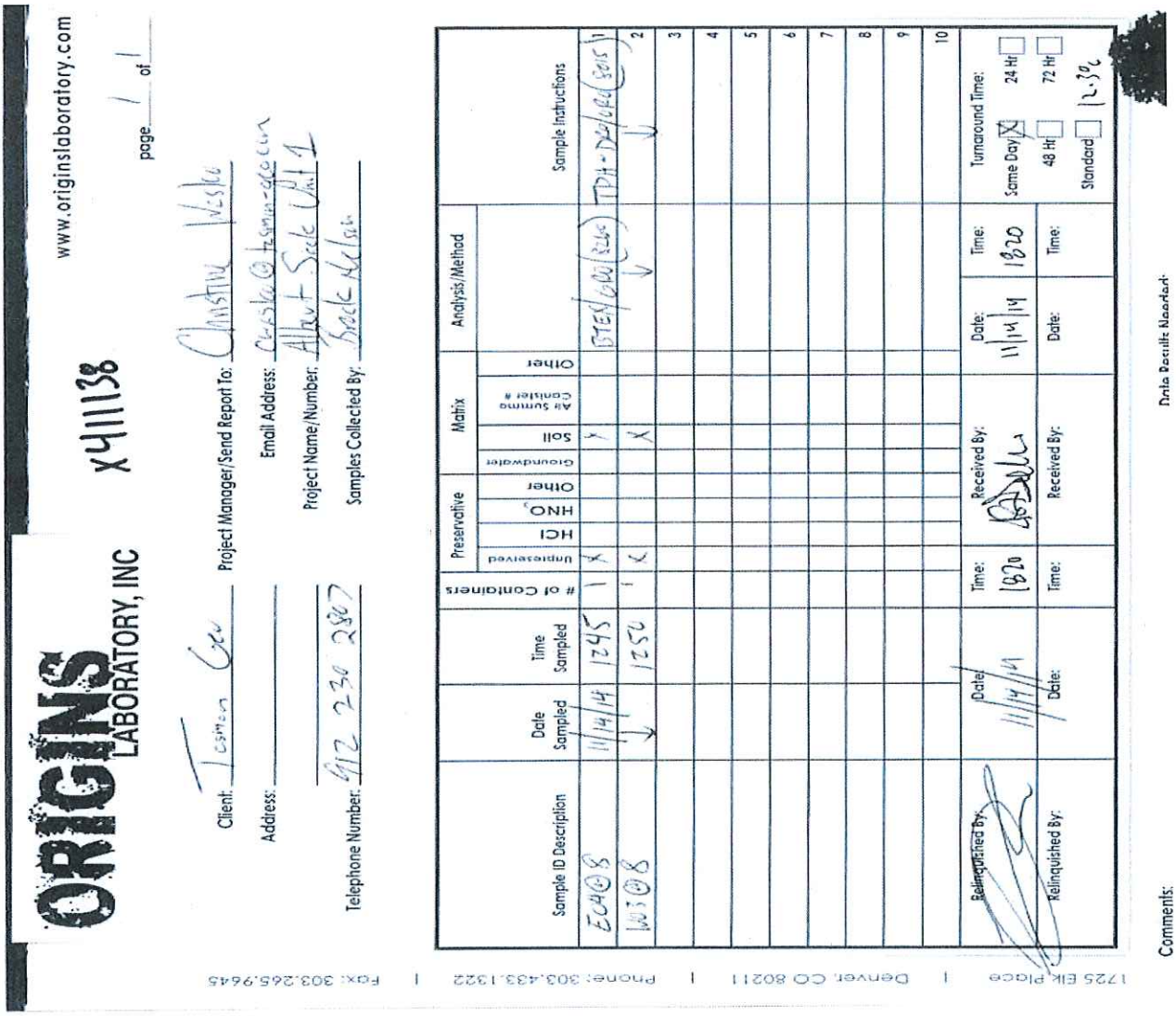
Jen Pellegrini For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1



Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X411138

Client: Tasman Geo.
Client Project ID: Albert Sack Unit 1

Checklist Completed by: SA
Date/time completed: 11/14/14 @ 1830

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

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

Cooler Number/Temperature: 12.3° / ____ °C ____ / ____ °C ____ / ____ °C ____ / ____ °C
(Describe)

Thermometer ID: TΦ3

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?		✓		RECEIVED ON ICE
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)

11-17-14
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

E04@8
11/14/2014 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory, Inc.
X411138-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	4K14015	11/14/2014	11/14/2014
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"
Surrogate: o-Terphenyl	*90.0 %*	*59-131*			"	"	"

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	**38.8**	5.00	mg/kg	25	4K14007	11/14/2014	11/15/2014
Benzene	ND	0.050	"	"	"	"	"
Toluene	ND	0.050	"	"	"	"	"
Ethylbenzene	ND	0.050	"	"	"	"	"
Xylenes, total	ND	0.050	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	*90.8 %*	*70-130*			"	"	*11/14/2014*
Surrogate: Toluene-d8	*99.1 %*	*70-130*			"	"	"
Surrogate: 4-Bromofluorobenzene	*98.8 %*	*70-130*			"	"	"

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

W03@8
11/14/2014 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X411138-02 (Soil)								
DRO/RRO by EPA8015C								
Diesel (C10-C28)	**130**	50	mg/kg	1	4K14015	11/14/2014	11/14/2014	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*117 %*	*59-131*			"	"	"	
GBTEX by EPA 8260C								
Gasoline Range Hydrocarbons	**316**	10.0	mg/kg	50	4K14007	11/14/2014	11/14/2014	
Benzene	ND	0.100	"	"	"	"	"	
Toluene	ND	0.100	"	"	"	"	"	
Ethylbenzene	ND	0.100	"	"	"	"	"	
Xylenes, total	ND	0.100	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*89.2 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*101 %*	*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*102 %*	*70-130*			"	"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K14007 - EPA 5030 (soil)										
Blank (4K14007-BLK1)					Prepared: 11/14/2014 Analyzed: 11/14/2014					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	*61.9*		*ug/kg*	*62.5*		*99.0*	*70-130*			
Surrogate: Toluene-d8	*61.2*		*"*	*62.5*		*98.0*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*60.6*		*"*	*62.5*		*96.9*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K14007 - EPA 5030 (soil)										
LCS (4K14007-BS1)					Prepared: 11/14/2014 Analyzed: 11/14/2014					
Benzene	0.097	0.002	mg/kg	0.100		97.2	77.1-124			
Toluene	0.091	0.002	"	0.100		90.6	74.5-128			
Ethylbenzene	0.089	0.002	"	0.100		89.1	66.4-127			
m,p-Xylene	0.185	0.004	"	0.200		92.7	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	*59.8*		*ug/kg*	*62.5*		*95.6*	*70-130*			
Surrogate: Toluene-d8	*61.9*		*"*	*62.5*		*99.1*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*61.5*		*"*	*62.5*		*98.4*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K14007 - EPA 5030 (soil)										
Matrix Spike (4K14007-MS1)		**Source: X411118-01**			Prepared: 11/14/2014 Analyzed: 11/14/2014					
Benzene	0.105	0.002	mg/kg	0.100	ND	105	71.8-126			
Toluene	0.096	0.002	"	0.100	ND	96.2	65.1-130			
Ethylbenzene	0.094	0.002	"	0.100	ND	93.5	62.2-130			
m,p-Xylene	0.195	0.004	"	0.200	ND	97.4	46.5-137			
o-Xylene	0.090	0.002	"	0.100	ND	90.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	*64.6*		*ug/kg*	*62.5*		*103*	*70-130*			
Surrogate: Toluene-d8	*59.7*		*"*	*62.5*		*95.5*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*61.6*		*"*	*62.5*		*98.5*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K14007 - EPA 5030 (soil)										
Matrix Spike Dup (4K14007-MSD1)		**Source: X411118-01**			Prepared: 11/14/2014 Analyzed: 11/14/2014					
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126	3.80	11.3	
Toluene	0.095	0.002	"	0.100	ND	95.1	65.1-130	1.17	15.4	
Ethylbenzene	0.093	0.002	"	0.100	ND	92.6	62.2-130	0.989	19.6	
m,p-Xylene	0.186	0.004	"	0.200	ND	93.1	46.5-137	4.49	19.2	
o-Xylene	0.081	0.002	"	0.100	ND	81.5	54.2-134	10.1	17.9	
Surrogate: 1,2-Dichloroethane-d4	*64.5*		*ug/kg*	*62.5*		*103*	*70-130*			
Surrogate: Toluene-d8	*59.7*		"	*62.5*		*95.5*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*61.2*		"	*62.5*		*98.0*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K14015 - EPA 3580										
Blank (4K14015-BLK1)						Prepared: 11/14/2014 Analyzed: 11/14/2014				
Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	*57*		*g*	*50.0*		*115*	*59-131*			
LCS (4K14015-BS1)						Prepared: 11/14/2014 Analyzed: 11/14/2014				
Diesel (C10-C28)	1100	50	mg/kg	1000		110	64-121			
Residual Range Organics (C28-C36)	810	200	"	1000		81.1	58-124			
Surrogate: o-Terphenyl	*52*		*g*	*50.0*		*103*	*59-131*			
Matrix Spike (4K14015-MS1)		**Source: X411136-01**				Prepared: 11/14/2014 Analyzed: 11/14/2014				
Diesel (C10-C28)	1100	50	mg/kg	1000	22	107	53-125			
Residual Range Organics (C28-C36)	810	200	"	1000	18	78.9	47-133			
Surrogate: o-Terphenyl	*52*		*g*	*50.0*		*104*	*59-131*			
Matrix Spike Dup (4K14015-MSD1)		**Source: X411136-01**				Prepared: 11/14/2014 Analyzed: 11/14/2014				
Diesel (C10-C28)	1100	50	mg/kg	1000	22	110	53-125	2.61	20	
Residual Range Organics (C28-C36)	850	200	"	1000	18	83.2	47-133	5.29	20	
Surrogate: o-Terphenyl	*52*		*g*	*50.0*		*105*	*59-131*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: Albert Sack Unit 1

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

April 16, 2015

Tasman Geosciences
Bob Cornez
6899 Pecos Street, Unit C
Denver CO 80211

Project Name - KMG - Albert Sack Unit #1 **Project Number - [none]**

Attached are your analytical results for KMG - Albert Sack Unit #1 received by Origins Laboratory, Inc. April 14, 2015. This project is associated with Origins project number X504185-01.

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

ACCREDITED
TESTING CERT # 3494.01

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	X504185-01	Water	April 14, 2015 9:10	04/14/2015 17:00
BH02	X504185-02	Water	April 14, 2015 9:15	04/14/2015 17:00
BH03	X504185-03	Water	April 14, 2015 9:24	04/14/2015 17:00
BH04	X504185-04	Water	April 14, 2015 9:26	04/14/2015 17:00
BH05	X504185-05	Water	April 14, 2015 9:35	04/14/2015 17:00

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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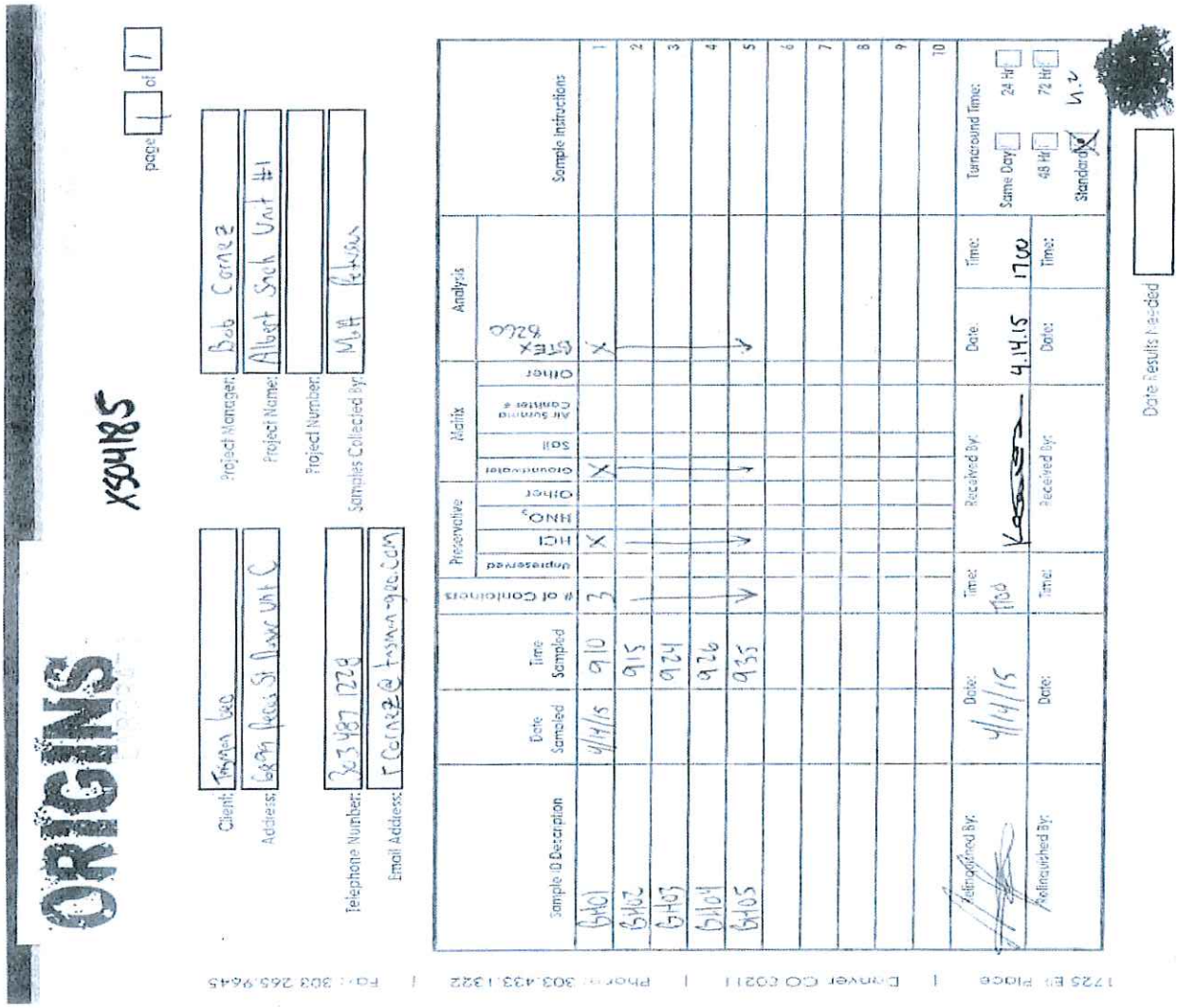
ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1



Origins Laboratory, Inc.

Jen Pellegrini

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Jen Pellegrini For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X504185

Client: Tasman
Client Project ID: Albert Sack Unit #1

Checklist Completed by: Jen Pellegrini
Date/time completed: 4/15/15

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

Matrix(s) Received: (Check all that apply): ____Soil/Solid X Water ____Other: ____ (Describe)

Cooler Number/Temperature: 1 / 4.2 °c ____/____°c ____/____°c ____/____°c

Thermometer ID: T003

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

4/15/15
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH01
4/14/2015 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X504185-01 (Water)								
BTEX by EPA 8260C								
Benzene	**226**	10.0	ug/L	10	5D16007	04/16/2015	04/16/2015	
Toluene	ND	1.0	"	1	"	"	04/16/2015	
Ethylbenzene	**350**	10.0	"	10	"	"	04/16/2015	
Xylenes, total	**3830**	10.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*104 %*	*87.3-113*			"	"	"	
Surrogate: Toluene-d8	*103 %*	*90.9-108*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*90.7 %*	*88.6-111*			"	"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH02
4/14/2015 9:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X504185-02 (Water)								
BTEX by EPA 8260C								
Benzene	**393**	10.0	ug/L	10	5D16007	04/16/2015	04/16/2015	
Toluene	ND	1.0	"	1	"	"	04/16/2015	
Ethylbenzene	**79.5**	1.0	"	"	"	"	"	
Xylenes, total	**377**	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*100 %*	*87.3-113*			"	"	"	
Surrogate: Toluene-d8	*107 %*	*90.9-108*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*91.4 %*	*88.6-111*			"	"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH03
4/14/2015 9:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X504185-03 (Water)								
BTEX by EPA 8260C								
Benzene	**328**	10.0	ug/L	10	5D16007	04/16/2015	04/16/2015	
Toluene	ND	1.0	"	1	"	"	04/16/2015	
Ethylbenzene	**135**	1.0	"	"	"	"	"	
Xylenes, total	**57.4**	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*104 %*	*87.3-113*			"	"	*04/16/2015*	
Surrogate: Toluene-d8	*104 %*	*90.9-108*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*90.6 %*	*88.6-111*			"	"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH04
4/14/2015 9:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X504185-04 (Water)								
BTEX by EPA 8260C								
Benzene	ND	4.0	ug/L	4	5D16007	04/16/2015	04/16/2015	
Toluene	ND	4.0	"	"	"	"	"	
Ethylbenzene	**279**	4.0	"	"	"	"	"	
Xylenes, total	**1110**	4.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*87.3-113*			"	"	"	
Surrogate: Toluene-d8	*107 %*	*90.9-108*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*91.9 %*	*88.6-111*			"	"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH05
4/14/2015 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X504185-05 (Water)								
BTEX by EPA 8260C								
Benzene	**7.2**	1.0	ug/L	1	5D16007	04/16/2015	04/16/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	**26.2**	1.0	"	"	"	"	"	
Xylenes, total	**208**	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*87.3-113*			"	"	"	
Surrogate: Toluene-d8	*108 %*	*90.9-108*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*90.7 %*	*88.6-111*			"	"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5D16007 - EPA 5030B (Water)										
Blank (5D16007-BLK1)				Prepared: 04/16/2015 Analyzed: 04/16/2015						
Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	*65*		"	*62.5*		*104*	*87.3-113*			
Surrogate: Toluene-d8	*63*		"	*62.5*		*102*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*57*		"	*62.5*		*90.8*	*88.6-111*			

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Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5D16007 - EPA 5030B (Water)										
LCS (5D16007-BS1)					Prepared: 04/16/2015 Analyzed: 04/16/2015					
Benzene	44.4	1.0	ug/L	50.0		88.7	75-126			
Toluene	46.1	1.0	"	50.0		92.1	78.7-126			
Ethylbenzene	47.3	1.0	"	50.0		94.5	80-130			
m,p-Xylene	94.3	2.0	"	100		94.3	77.2-133			
o-Xylene	46.4	1.0	"	50.0		92.8	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	*61*		"	*62.5*		*96.8*	*87.3-113*			
Surrogate: Toluene-d8	*64*		"	*62.5*		*102*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*58*		"	*62.5*		*92.8*	*88.6-111*			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5D16007 - EPA 5030B (Water)										
Matrix Spike (5D16007-MS1)		**Source: X504183-01**			Prepared: 04/16/2015 Analyzed: 04/16/2015					
Benzene	50.2	1.0	ug/L	50.0	ND	100	74-130			
Toluene	52.8	1.0	"	50.0	ND	106	73-131			
Ethylbenzene	55.2	1.0	"	50.0	ND	110	76-132			
m,p-Xylene	108	2.0	"	100	ND	108	69-139			
o-Xylene	51.5	1.0	"	50.0	ND	103	74-131			
Surrogate: 1,2-Dichloroethane-d4	*61*		"	*62.5*		*97.9*	*87.3-113*			
Surrogate: Toluene-d8	*64*		"	*62.5*		*102*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*57*		"	*62.5*		*91.6*	*88.6-111*			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5D16007 - EPA 5030B (Water)										
Matrix Spike Dup (5D16007-MSD1)		**Source: X504183-01**			Prepared: 04/16/2015 Analyzed: 04/16/2015					
Benzene	52.2	1.0	ug/L	50.0	ND	104	74-130	3.79	20	
Toluene	55.3	1.0	"	50.0	ND	111	73-131	4.59	20	
Ethylbenzene	57.6	1.0	"	50.0	ND	115	76-132	4.31	20	
m,p-Xylene	112	2.0	"	100	ND	112	69-139	3.84	20	
o-Xylene	54.1	1.0	"	50.0	ND	108	74-131	4.87	20	
Surrogate: 1,2-Dichloroethane-d4	*61*		"	*62.5*		*98.1*	*87.3-113*			
Surrogate: Toluene-d8	*64*		"	*62.5*		*102*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*58*		"	*62.5*		*93.6*	*88.6-111*			

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Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ATTACHMENT B

WELL COMPLETION DIAGRAMS

Tasman Geosciences
6899 Pecos St, Unit C
Denver, CO 80221

WELL ID: BH01 **SITE:** Albert Sack Unit 1
DATE: 4/2/2015 **Driller:** Brandon LeVasseur
DRILLING METHOD: AMS Powerprobe 9300-SK
SAMPLING EQUIPMENT: macro-core liners

Depth (ft bgs)	Lithology					Well Completion Detail
	From	To	Material Description[1]	Lab Samples	PID (ppm)	Well Completion Material
0 - 6			Hydro-excavation - no recovery			Hydrated Bentonite Chips
6 - 7			Borehole geology not logged			Hydrated Granular Bentonite Seal
7 - 11						
11 - 19			Groundwater interface approximately 11 ft bgs			10-20 Silica Sand
19 - 32			Borehole TD= 19' ft bgs			

1" Diameter Schedule 40 Blank PVC Riser
1" Diameter Schedule 40 PVC 0.010" Slot Screen
Threaded PVC End Cap

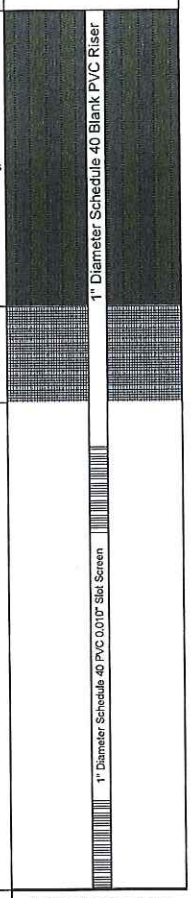
Notes:
1. Material Description to include: Soil type, color; grain size; texture; moisture content; odor

NOTES:
Temporary monitoring well was flush mounted.

Tasman Geosciences
6899 Pecos St, Unit C
Denver, CO 80221

WELL ID: BH02 **SITE:** Albert Sack Unit 1
DATE: 4/2/2015 **Driller:** Brandon LeVasseur
DRILLING METHOD: AMS Powerprobe 9300-SK
SAMPLING EQUIPMENT: macro-core liners

Depth (ft bgs)	Lithology						Well Completion Detail
	From	To	Material Description[1]	Lab Samples	PID (ppm)	Well Completion Material	
0							
1							
2							
3			Hydro-excavation - no recovery			Hydrated Bentonite Chips	
4							
5							
6			Borehole geology not logged			Hydrated Granular Bentonite Seal	
7							
8							
9							
10							
11			Groundwater interface approximately 11 ft bgs				
12							
13						10-20 Silica Sand	
14							
15							
16							
17							
18							
19			Borehole TD= 19' ft bgs				Threaded PVC End Cap
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							



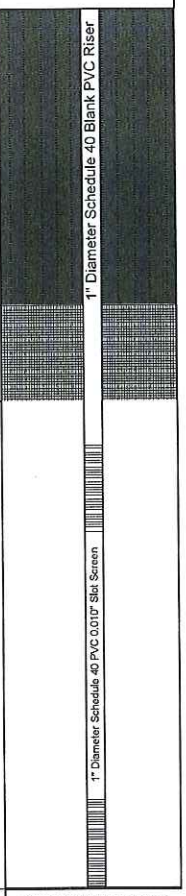
Notes:
1. Material Description to include: Soil type, color; grain size; texture; moisture content; odor

NOTES:
Temporary monitoring well was flush mounted.

Tasman Geosciences
6899 Pecos St, Unit C
Denver, CO 80221

WELL ID: BH03 **SITE:** Albert Sack Unit 1
DATE: 4/2/2015 **Driller:** Brandon LeVasseur
DRILLING METHOD: AMS Powerprobe 9300-SK
SAMPLING EQUIPMENT: macro-core liners

Depth (ft bgs)	Lithology						Well Completion Detail
	From	To	Material Description[1]	Lab Samples	PID (ppm)	Well Completion Material	
0							
1							
2							
3			Hydro-excavation - no recovery			Hydrated Bentonite Chips	
4							
5							
6			Borehole geology not logged			Hydrated Granular Bentonite Seal	
7							
8							
9							
10							
11			Groundwater interface approximately 11 ft bgs				
12							
13						10-20 Silica Sand	
14							
15							
16							
17							
18							
19			Borehole TD= 19' ft bgs				Threaded PVC End Cap
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							



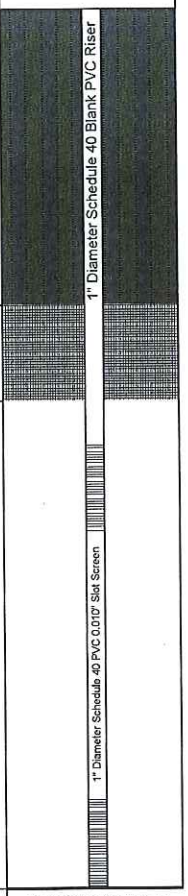
Notes:
1. Material Description to include: Soil type, color; grain size; texture; moisture content; odor

NOTES:
Temporary monitoring well was flush mounted.

Tasman Geosciences
6899 Pecos St, Unit C
Denver, CO 80221

WELL ID: BH04 **SITE:** Albert Sack Unit 1
DATE: 4/2/2015 **Driller:** Brandon LeVasseur
DRILLING METHOD: AMS Powerprobe 9300-SK
SAMPLING EQUIPMENT: macro-core liners

Depth (ft bgs)	Lithology						Well Completion Detail
	From	To	Material Description[1]	Lab Samples	PID (ppm)	Well Completion Material	
0							
1							
2							
3			Hydro-excavation - no recovery			Hydrated Bentonite Chips	
4							
5							
6							
7			Borehole geology not logged			Hydrated Granular Bentonite Seal	
8							
9							
10							
11							
12			Groundwater interface approximately 11 ft bgs				
13							
14							
15							
16							
17							
18							
19							
20			Borehole TD= 19' ft bgs			10-20 Silica Sand	
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							



Notes:
1. Material Description to include: Soil type, color; grain size; texture; moisture content; odor

NOTES:
Temporary monitoring well was flush mounted.

Tasman Geosciences
6899 Pecos St, Unit C
Denver, CO 80221

WELL ID: BH05 **SITE:** Albert Sack Unit 1
DATE: 4/2/2015 **Driller:** Brandon LeVasseur
DRILLING METHOD: AMS Powerprobe 9300-SK
SAMPLING EQUIPMENT: macro-core liners

Depth (ft bgs)	Lithology						Well Completion Detail
	From	To	Material Description[1]	Lab Samples	PID (ppm)	Well Completion Material	
0							
1			Hydro-excavation - no recovery			Hydrated Bentonite Chips	
2							
3							
4							
5							
6			Borehole geology not logged			Hydrated Granular Bentonite Seal	
7							
8							
9							
10							
11			Groundwater interface approximately 11 ft bgs			10-20 Silica Sand	
12							
13							
14							
15							
16							
17							
18							
19			Borehole TD= 19' ft bgs				
20							
21							
22							
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24							
25							
26							
27							
28							
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30							
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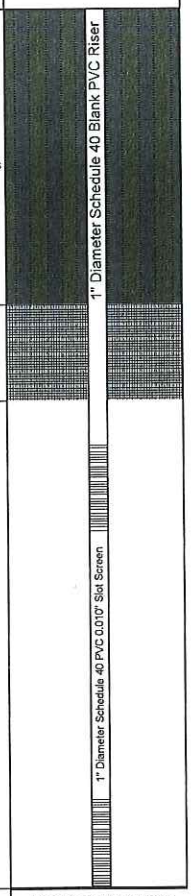
32							



Notes:
1. Material Description to include: Soil type, color; grain size; texture; moisture content; odor

NOTES:
Temporary monitoring well was flush mounted.