

APPROVED

By CHernandez at 12:24 pm, Aug 29, 2018

WORLD-WIDE ENVIRONMENTAL SPECIALISTS



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NMOCD approves the delineation completed and proposed remediation for **1RP-5007**. Approval is also conditional based on the following: 1)Extend excavation to encompass sample locations North@Surface, South@Surface and East@Surface and provide updated site maps/figures of where resampling took place on 5/17/2018. 2)Bottom and sidewall confirmation samples from all excavation areas (SP1 sidewalls only) at no greater than 50 ft. intervals. 3)BTX, TPH extended, and chlorides laboratory analyses for all confirmation samples. 4)Marked confirmation sample locations in relation to delineation sample locations on a scaled map. 5)Dated photo documentation of the remediation process.

DELINEATION WORKPLAN

COG – SMITH RANCH FEDERAL #002 (Leak Date: 3/31/18)

RP # 1RP-5007

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-5007.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

COG will excavate the spill area as depicted on the following site diagram. The leak area near SP5 and SP9 (yellow shade on diagram) was sampled then excavated to a depth of 4 feet with an impermeable plastic liner installed then backfilled (pictures of the excavation and liner are included). This was done so a replacement tank could be installed, and the battery put back into operation. The sample results had indicated a liner was necessary. The leak area near SP1 (purple shade on diagram) will be excavated to a depth of 4 feet with an impermeable liner placed in the bottom of the excavation. The leak area near SP2 – SP4 (blue shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP7 and SP8 (pink shade on diagram) will be excavated to a depth of 4 feet. The leak area near SP1 (orange shade on diagram) will be excavated to a depth of 1 foot.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

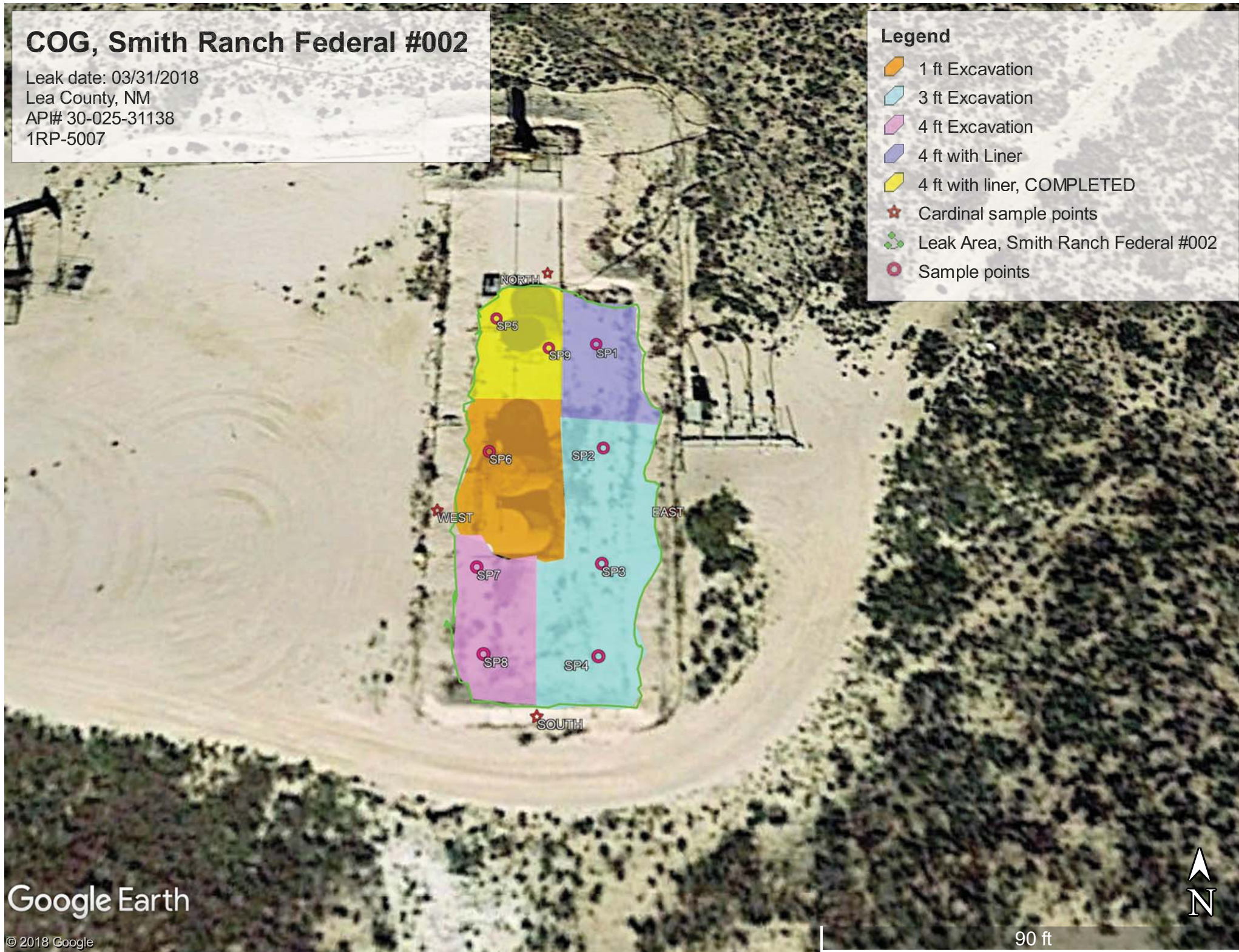
All excavated materials will be disposed of at an NMOCD-approved disposal facility.

COG, Smith Ranch Federal #002

Leak date: 03/31/2018
Lea County, NM
AP# 30-025-31138
1RP-5007

Legend

- 1 ft Excavation
- 3 ft Excavation
- 4 ft Excavation
- 4 ft with Liner
- 4 ft with liner, COMPLETED
- Cardinal sample points
- Leak Area, Smith Ranch Federal #002
- Sample points





COG, Smith Ranch Federal #002

Sample points

SP1, N 32.59304 W-103.63566

SP2, N 32.59296 W-103.63566

SP3, N 32.59287 W-103.63566

SP4, N 32.59280 W-103.63566

SP5, N 32.59307 W-103.63575

SP6, N 32.59295 W-103.63575

SP7, N 32.59287 W-103.63576

SP8, N 32.59280 W-103.63575

SP9, N 32.59304 W-103.63570

NORTH, N 32.59311 W-103.63571

SOUTH, N 32.59276 W-103.63570

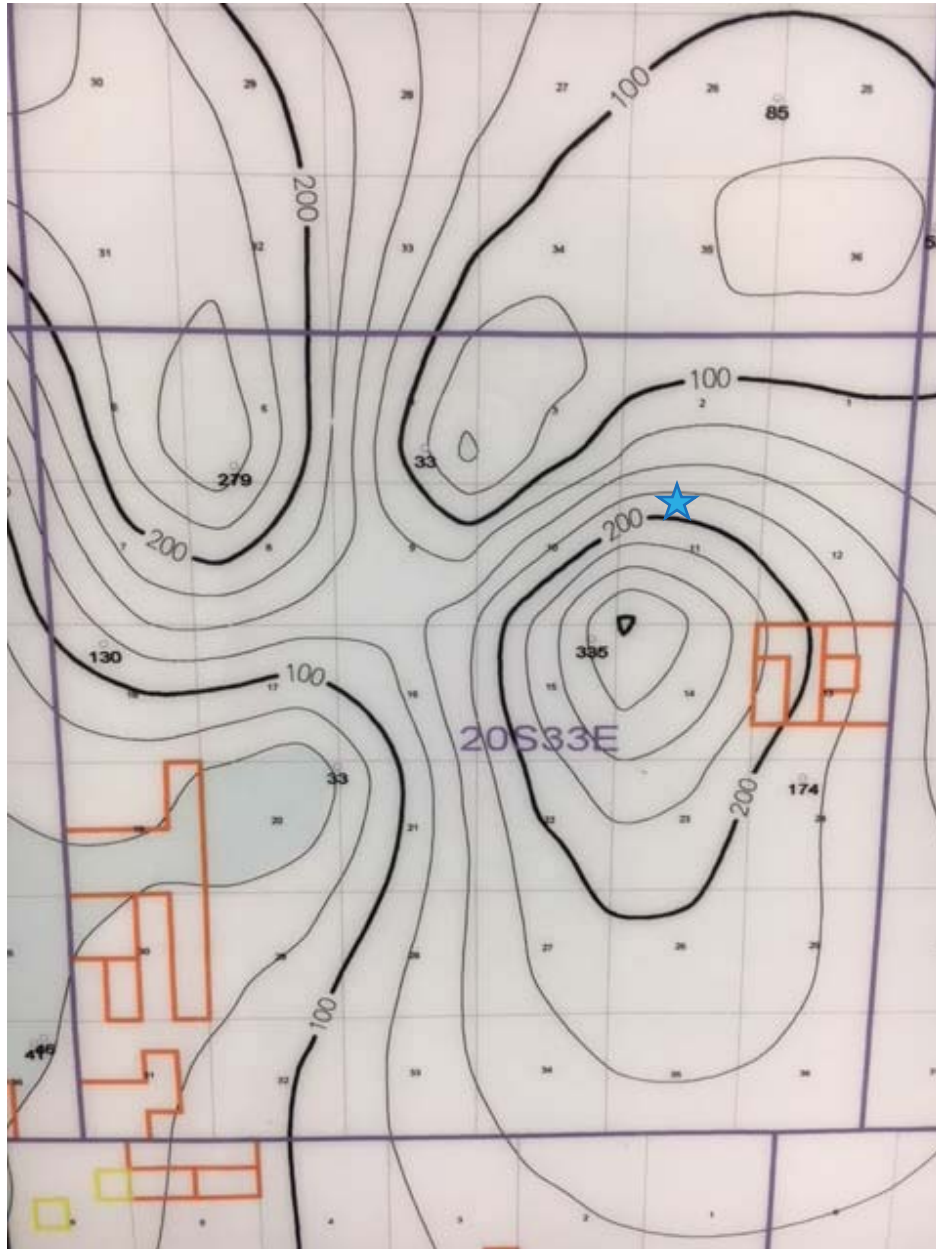
EAST, N 32.59291 W-103.63560

WEST, N 32.59291 W-103.63579

COG, Smith Ranch Federal #002

U/L C, Section 11, T20S, R33E

Groundwater: 175'





New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 627997

Northing (Y): 3606998

Radius: 1700

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/16/18 11:16 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Public Land Survey System (PLSS)

☒ Q64: Q16: NE Q4: NW Sec: 11 Tws: 20S Rng: 33E

State Plane Coordinate System - NAD27

☐ X: 0 ft Y: 0 ft Zone:

State Plane Coordinate System - NAD83

☐ X: 0 ft Y: 0 ft Zone:

Degrees/Minutes/Seconds

☐ Longitude (X): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "

Latitude (Y): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "

UTM - NAD27

☐ Easting (X): 0 mtrs Northing (Y): 0 mtrs Zone:

SUBMIT**All Conversion Results are displayed as NAD 1983 UTM Zone 13**Easting (X): 627997.0 mtrsNorthing (Y): 3606998.0 mtrs**~~ Please keep screen open to copy UTM values for Reports. ~~**

Laboratory Analytical Results Summary
Smith Ranch Federal #002

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'	SP1 @ 6'	SP1 @ 7'	SP1 @ 8'
Analyte	Method	Date	5/4/18	5/4/18	5/4/18	5/4/18	5/4/18	5/4/18	5/4/18	5/4/18	5/4/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		18400	3600	4160	1570	5360	3120	3520	1490	64
Chloride	EPA300.0		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	35.2
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		43.6	16.4	11.5	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		14	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	5/4/18	5/4/18	5/4/18	5/17/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		20800	3360	1420	640
Chloride	EPA300.0		n/a	n/a	1230	500
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		25	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	5/4/18	5/4/18	5/4/18	5/4/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		19600	4720	1150	48
Chloride	EPA300.0		n/a	n/a	n/a	38.2
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		10.2	612	44.3	n/a
EXT DRO	TPH 8015M		<10.0	223	14.6	n/a

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	5/4/18	5/7/18	5/7/18	5/17/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		33200	4400	1060	32
Chloride	EPA300.0		n/a	n/a	924	12.3
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		671	<10.0	n/a	n/a
EXT DRO	TPH 8015M		262	<10.0	n/a	n/a

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'
Analyte	Method	Date	5/7/18	5/7/18	5/7/18	5/7/18	6/25/18	6/25/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		37200	5200	864	704	<16.0	<16.0
Chloride	EPA300.0		n/a	n/a	n/a	704	n/a	<10.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		288	122	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		160	56.7	n/a	n/a	n/a	n/a

		Sample ID	SP6 @ SURFACE	SP6 @ 1'
Analyte	Method	Date	5/7/18	5/7/18
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		36400	432
Chloride	EPA300.0		n/a	460
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		286	50.4
EXT DRO	TPH 8015M		149	28.3

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 5'
Analyte	Method	Date	5/7/18	5/7/18	5/7/18	5/7/18	5/7/18	5/17/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		28000	6700	4000	3160	1100	512
Chloride	EPA300.0		n/a	n/a	n/a	n/a	972	479
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		338	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		201	<10.0	n/a	n/a	n/a	n/a

		Sample ID	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'	SP8 @ 4'
Analyte	Method	Date	5/7/18	5/7/18	5/7/18	5/7/18	5/17/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		30000	3600	2280	1220	32
Chloride	EPA300.0		n/a	n/a	n/a	1190	21.8
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		258	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		148	<10.0	n/a	n/a	n/a

Laboratory Analytical Results Summary
Smith Ranch Federal #002

		Sample ID	SP9 @ 4'	SP9 @ 5'
Analyte	Method	Date	5/10/18	5/10/18
			mg/kg	mg/kg
Chloride	SM4500Cl-B		5760	48
Chloride	EPA300.0		5540	16.5

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	5/7/18	5/7/18	5/7/18	5/7/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		1020	864	416	800
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	54.1	14
EXT DRO	TPH 8015M		<10.0	<10.0	24.5	<10.0

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	5/17/18	5/17/18	5/17/18
			mg/kg	mg/kg	mg/kg
Chloride	SM4500Cl-B		48	32	48
Chloride	EPA300.0		27.6	23.5	22.7

May 11, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SMITH RANCH FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 05/08/18 15:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 1 @ SURFACE	H801275-01	Soil	04-May-18 09:01	08-May-18 15:17
SP 1 @ 1	H801275-02	Soil	04-May-18 09:15	08-May-18 15:17
SP 1 @ 2	H801275-03	Soil	04-May-18 09:45	08-May-18 15:17
SP 1 @ 3	H801275-04	Soil	04-May-18 10:19	08-May-18 15:17
SP 1 @ 4	H801275-05	Soil	04-May-18 10:39	08-May-18 15:17
SP 1 @ 5	H801275-06	Soil	04-May-18 11:11	08-May-18 15:17
SP 1 @ 6	H801275-07	Soil	04-May-18 11:30	08-May-18 15:17
SP 1 @ 7	H801275-08	Soil	04-May-18 11:49	08-May-18 15:17
SP 1 @ 8	H801275-09	Soil	04-May-18 12:12	08-May-18 15:17
SP 2 @ SURFACE	H801275-10	Soil	04-May-18 13:01	08-May-18 15:17
SP 2 @ 1	H801275-11	Soil	04-May-18 13:15	08-May-18 15:17
SP 2 @ 2	H801275-12	Soil	04-May-18 13:31	08-May-18 15:17
SP 3 @ SURFACE	H801275-13	Soil	04-May-18 13:45	08-May-18 15:17
SP 3 @ 1	H801275-14	Soil	04-May-18 14:11	08-May-18 15:17
SP 3 @ 2	H801275-15	Soil	04-May-18 14:33	08-May-18 15:17
SP 3 @ 3	H801275-16	Soil	04-May-18 15:11	08-May-18 15:17
SP 4 @ SURFACE	H801275-17	Soil	04-May-18 15:15	08-May-18 15:17
SP 4 @ 1	H801275-18	Soil	07-May-18 09:19	08-May-18 15:17
SP 4 @ 2	H801275-19	Soil	07-May-18 09:45	08-May-18 15:17
SP 5 @ SURFACE	H801275-20	Soil	07-May-18 10:45	08-May-18 15:17
SP 5 @ 1	H801275-21	Soil	07-May-18 10:30	08-May-18 15:17
SP 5 @ 2	H801275-22	Soil	07-May-18 10:45	08-May-18 15:17
SP 5 @ 3	H801275-23	Soil	07-May-18 11:11	08-May-18 15:17
SP 6 @ SURFACE	H801275-24	Soil	07-May-18 11:22	08-May-18 15:17
SP 6 @ 1	H801275-25	Soil	07-May-18 11:39	08-May-18 15:17
SP 7 @ SURFACE	H801275-26	Soil	07-May-18 11:45	08-May-18 15:17
SP 7 @ 1	H801275-27	Soil	07-May-18 12:12	08-May-18 15:17

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26

SP 7 @ 2	H801275-28	Soil	07-May-18 12:55	08-May-18 15:17
SP 7 @ 3	H801275-29	Soil	07-May-18 13:19	08-May-18 15:17
SP 7 @ 4	H801275-30	Soil	07-May-18 13:33	08-May-18 15:17
SP 8 @ SURFACE	H801275-31	Soil	07-May-18 13:25	08-May-18 15:17
SP 8 @ 1	H801275-32	Soil	07-May-18 13:41	08-May-18 15:17
SP 8 @ 2	H801275-33	Soil	07-May-18 14:15	08-May-18 15:17
SP 8 @ 3	H801275-34	Soil	07-May-18 14:22	08-May-18 15:17
SP N @ SURFACE	H801275-35	Soil	07-May-18 14:33	08-May-18 15:17
SP E @ SURFACE	H801275-36	Soil	07-May-18 14:44	08-May-18 15:17
SP W @ SURFACE	H801275-37	Soil	07-May-18 14:55	08-May-18 15:17
SP S @ SURFACE	H801275-38	Soil	07-May-18 15:11	08-May-18 15:17

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 1 @ SURFACE H801275-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	18400		16.0	mg/kg	4	8050808	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050809	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050809	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-148		8050809	MS	09-May-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
DRO >C10-C28*	43.6		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
EXT DRO >C28-C36	14.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	

Surrogate: 1-Chlorooctane			75.9 %	41-142		8050810	MS	08-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			77.6 %	37.6-147		8050810	MS	08-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 1 @ 1 H801275-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	3600		16.0	mg/kg	4	8050808	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050809	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050809	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 72-148 8050809 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
DRO >C10-C28*	16.4		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	

Surrogate: 1-Chlorooctane 69.1 % 41-142 8050810 MS 08-May-18 8015B

Surrogate: 1-Chlorooctadecane 65.4 % 37.6-147 8050810 MS 08-May-18 8015B

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Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 1 @ 2 H801275-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	4160		16.0	mg/kg	4	8050808	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050809	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050809	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148 8050809 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
DRO >C10-C28*	11.5		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	

Surrogate: 1-Chlorooctane 74.5 % 41-142 8050810 MS 08-May-18 8015B

Surrogate: 1-Chlorooctadecane 68.5 % 37.6-147 8050810 MS 08-May-18 8015B

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P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 1 @ 3**
H801275-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1570		16.0	mg/kg	4	8050808	HM	09-May-18	4500-Cl-B	
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Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 1 @ 4**
H801275-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5360		16.0	mg/kg	4	8050808	HM	09-May-18	4500-Cl-B	
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Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 1 @ 5**
H801275-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3120		16.0	mg/kg	4	8050808	HM	09-May-18	4500-Cl-B	
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Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 1 @ 6**
H801275-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3520		16.0	mg/kg	4	8050808	HM	09-May-18	4500-Cl-B	
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P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 1 @ 7**
H801275-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1490		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 1 @ 8**
H801275-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	35.2		10.0	mg/kg wet	10	B805075	JDA	10-May-18	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 2 @ SURFACE

H801275-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	20800		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050809	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050809	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 72-148 8050809 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
DRO >C10-C28*	25.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	

Surrogate: 1-Chlorooctane 76.6 % 41-142 8050810 MS 08-May-18 8015B

Surrogate: 1-Chlorooctadecane 72.4 % 37.6-147 8050810 MS 08-May-18 8015B

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BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 2 @ 1 H801275-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	3360		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050809	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050809	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148 8050809 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	

Surrogate: 1-Chlorooctane 73.4 % 41-142 8050810 MS 08-May-18 8015B

Surrogate: 1-Chlorooctadecane 67.0 % 37.6-147 8050810 MS 08-May-18 8015B

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P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 2 @ 2**
H801275-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1420		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	1230		50.0	mg/kg wet	50	B805075	JDA	10-May-18	EPA300.0	
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BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 3 @ SURFACE

H801275-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	19600		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050809	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050809	MS	09-May-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.4 %		72-148	8050809	MS	09-May-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
DRO >C10-C28*	10.2		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
Surrogate: 1-Chlorooctane			72.8 %		41-142	8050810	MS	08-May-18	8015B	
Surrogate: 1-Chlorooctadecane			67.3 %		37.6-147	8050810	MS	08-May-18	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 3 @ 1 H801275-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	4720		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050809	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050809	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148 8050809 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
DRO >C10-C28*	612		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	
EXT DRO >C28-C36	223		10.0	mg/kg	1	8050810	MS	08-May-18	8015B	

Surrogate: 1-Chlorooctane 64.5 % 41-142 8050810 MS 08-May-18 8015B

Surrogate: 1-Chlorooctadecane 111 % 37.6-147 8050810 MS 08-May-18 8015B

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Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 3 @ 2 H801275-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1150		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050809	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050809	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148 8050809 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	
DRO >C10-C28*	44.3		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	
EXT DRO >C28-C36	17.6		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	

Surrogate: 1-Chlorooctane 75.2 % 41-142 8050810 MS 09-May-18 8015B

Surrogate: 1-Chlorooctadecane 76.3 % 37.6-147 8050810 MS 09-May-18 8015B

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Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 3 @ 3**
H801275-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	38.2		10.0	mg/kg wet	10	B805075	JDA	10-May-18	EPA300.0	
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BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 4 @ SURFACE

H801275-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	33200		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050809	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050809	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148 8050809 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	
DRO >C10-C28*	671		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	
EXT DRO >C28-C36	262		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	

Surrogate: 1-Chlorooctane 71.2 % 41-142 8050810 MS 09-May-18 8015B

Surrogate: 1-Chlorooctadecane 121 % 37.6-147 8050810 MS 09-May-18 8015B

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Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 4 @ 1 H801275-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	4400		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050809	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050809	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148 8050809 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	

Surrogate: 1-Chlorooctane 74.9 % 41-142 8050810 MS 09-May-18 8015B

Surrogate: 1-Chlorooctadecane 70.7 % 37.6-147 8050810 MS 09-May-18 8015B

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Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 4 @ 2**
H801275-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1060		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	924		50.0	mg/kg wet	50	B805075	JDA	10-May-18	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 5 @ SURFACE H801275-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	37200		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050809	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050809	MS	09-May-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.7 %	72-148		8050809	MS	09-May-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	
DRO >C10-C28*	288		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	
EXT DRO >C28-C36	160		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	
Surrogate: 1-Chlorooctane			83.1 %	41-142		8050810	MS	09-May-18	8015B	
Surrogate: 1-Chlorooctadecane			96.1 %	37.6-147		8050810	MS	09-May-18	8015B	

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Analytical Results For:

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P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 5 @ 1 H801275-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	5200		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050809	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050809	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050809	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148 8050809 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	
DRO >C10-C28*	122		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	
EXT DRO >C28-C36	56.7		10.0	mg/kg	1	8050810	MS	09-May-18	8015B	

Surrogate: 1-Chlorooctane 92.3 % 41-142 8050810 MS 09-May-18 8015B

Surrogate: 1-Chlorooctadecane 96.9 % 37.6-147 8050810 MS 09-May-18 8015B

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P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 5 @ 2**
H801275-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	864		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 5 @ 3**
H801275-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	704		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	704		50.0	mg/kg wet	50	B805075	JDA	10-May-18	EPA300.0	
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Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 6 @ SURFACE

H801275-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	36400		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050812	MS	08-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050812	MS	08-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050812	MS	08-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050812	MS	08-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050812	MS	08-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			92.9 %		72-148	8050812	MS	08-May-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
DRO >C10-C28*	286		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
EXT DRO >C28-C36	149		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	

Surrogate: 1-Chlorooctane			87.4 %		41-142	8050811	MS	09-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			112 %		37.6-147	8050811	MS	09-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 6 @ 1 H801275-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	432		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050812	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050812	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 72-148 8050812 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
DRO >C10-C28*	50.4		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
EXT DRO >C28-C36	28.3		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	

Surrogate: 1-Chlorooctane 90.5 % 41-142 8050811 MS 09-May-18 8015B

Surrogate: 1-Chlorooctadecane 98.8 % 37.6-147 8050811 MS 09-May-18 8015B

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	460		10.0	mg/kg wet	10	B805075	JDA	10-May-18	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 7 @ SURFACE

H801275-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	28000		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050812	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050812	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 72-148 8050812 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
DRO >C10-C28*	338		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
EXT DRO >C28-C36	201		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	

Surrogate: 1-Chlorooctane 92.9 % 41-142 8050811 MS 09-May-18 8015B

Surrogate: 1-Chlorooctadecane 111 % 37.6-147 8050811 MS 09-May-18 8015B

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Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 7 @ 1 H801275-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	6700		16.0	mg/kg	4	8050908	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050812	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050812	MS	09-May-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			92.0 %	72-148		8050812	MS	09-May-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
Surrogate: 1-Chlorooctane			96.7 %	41-142		8050811	MS	09-May-18	8015B	
Surrogate: 1-Chlorooctadecane			98.7 %	37.6-147		8050811	MS	09-May-18	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 7 @ 2**
H801275-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4000		16.0	mg/kg	4	8050909	HM	09-May-18	4500-Cl-B	QM-07
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Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 7 @ 3**
H801275-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3160		16.0	mg/kg	4	8050909	HM	09-May-18	4500-Cl-B	
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Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 7 @ 4**
H801275-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1100		16.0	mg/kg	4	8050909	HM	09-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	972		50.0	mg/kg wet	50	B805075	JDA	10-May-18	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 8 @ SURFACE

H801275-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	30000		16.0	mg/kg	4	8050909	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050812	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050812	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 72-148 8050812 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
DRO >C10-C28*	258		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
EXT DRO >C28-C36	148		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	

Surrogate: 1-Chlorooctane 91.0 % 41-142 8050811 MS 09-May-18 8015B

Surrogate: 1-Chlorooctadecane 106 % 37.6-147 8050811 MS 09-May-18 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP 8 @ 1 H801275-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	3600		16.0	mg/kg	4	8050909	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050812	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050812	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 72-148 8050812 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	

Surrogate: 1-Chlorooctane 93.9 % 41-142 8050811 MS 09-May-18 8015B

Surrogate: 1-Chlorooctadecane 94.0 % 37.6-147 8050811 MS 09-May-18 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 8 @ 2**
H801275-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2280		16.0	mg/kg	4	8050909	HM	09-May-18	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**SP 8 @ 3**
H801275-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1220		16.0	mg/kg	4	8050909	HM	09-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	1190		50.0	mg/kg wet	50	B805075	JDA	10-May-18	EPA300.0	
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Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP N @ SURFACE

H801275-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1020		16.0	mg/kg	4	8050909	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050812	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050812	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.2 %		72-148	8050812	MS	09-May-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	

Surrogate: 1-Chlorooctane			90.9 %		41-142	8050811	MS	09-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			92.1 %		37.6-147	8050811	MS	09-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP E @ SURFACE H801275-36 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	864		16.0	mg/kg	4	8050909	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050812	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050812	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.9 %		72-148	8050812	MS	09-May-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	

Surrogate: 1-Chlorooctane			90.7 %		41-142	8050811	MS	09-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			91.5 %		37.6-147	8050811	MS	09-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP W @ SURFACE

H801275-37 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	416		16.0	mg/kg	4	8050909	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050812	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050812	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 72-148 8050812 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
DRO >C10-C28*	54.1		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
EXT DRO >C28-C36	24.5		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	

Surrogate: 1-Chlorooctane 92.3 % 41-142 8050811 MS 09-May-18 8015B

Surrogate: 1-Chlorooctadecane 96.8 % 37.6-147 8050811 MS 09-May-18 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

SP S @ SURFACE H801275-38 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	800		16.0	mg/kg	4	8050909	HM	09-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8050812	MS	09-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8050812	MS	09-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8050812	MS	09-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 72-148 8050812 MS 09-May-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
DRO >C10-C28*	14.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8050811	MS	09-May-18	8015B	

Surrogate: 1-Chlorooctane 93.5 % 41-142 8050811 MS 09-May-18 8015B

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147 8050811 MS 09-May-18 8015B

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Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8050808 - 1:4 DI Water

Blank (8050808-BLK1)

Prepared & Analyzed: 08-May-18

Chloride ND 16.0 mg/kg

LCS (8050808-BS1)

Prepared & Analyzed: 08-May-18

Chloride 432 16.0 mg/kg 400 108 80-120

LCS Dup (8050808-BSD1)

Prepared & Analyzed: 08-May-18

Chloride 432 16.0 mg/kg 400 108 80-120 0.00 20

Batch 8050908 - 1:4 DI Water

Blank (8050908-BLK1)

Prepared & Analyzed: 09-May-18

Chloride ND 16.0 mg/kg

LCS (8050908-BS1)

Prepared & Analyzed: 09-May-18

Chloride 432 16.0 mg/kg 400 108 80-120

LCS Dup (8050908-BSD1)

Prepared & Analyzed: 09-May-18

Chloride 432 16.0 mg/kg 400 108 80-120 0.00 20

Batch 8050909 - 1:4 DI Water

Blank (8050909-BLK1)

Prepared & Analyzed: 09-May-18

Chloride ND 16.0 mg/kg

LCS (8050909-BS1)

Prepared & Analyzed: 09-May-18

Chloride 432 16.0 mg/kg 400 108 80-120

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
11-May-18 14:26**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8050909 - 1:4 DI Water**LCS Dup (8050909-BSD1)**

Prepared & Analyzed: 09-May-18

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8050809 - Volatiles

Blank (8050809-BLK1)

Prepared & Analyzed: 08-May-18

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	72-148			

LCS (8050809-BS1)

Prepared & Analyzed: 08-May-18

Benzene	1.98	0.050	mg/kg	2.00		99.1	79.5-124			
Toluene	2.06	0.050	mg/kg	2.00		103	75.5-127			
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	77.7-125			
Total Xylenes	6.48	0.150	mg/kg	6.00		108	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0972		mg/kg	0.100		97.2	72-148			

LCS Dup (8050809-BSD1)

Prepared & Analyzed: 08-May-18

Benzene	1.98	0.050	mg/kg	2.00		99.2	79.5-124	0.100	6.5	
Toluene	2.08	0.050	mg/kg	2.00		104	75.5-127	0.828	7.02	
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	77.7-125	0.693	7.83	
Total Xylenes	6.54	0.150	mg/kg	6.00		109	70.9-124	0.896	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0988		mg/kg	0.100		98.8	72-148			

Batch 8050812 - Volatiles

Blank (8050812-BLK1)

Prepared & Analyzed: 08-May-18

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0920		mg/kg	0.100		92.0	72-148			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8050812 - Volatiles
LCS (8050812-BS1)

Prepared & Analyzed: 08-May-18

Benzene	2.01	0.050	mg/kg	2.00		100	79.5-124			
Toluene	1.97	0.050	mg/kg	2.00		98.7	75.5-127			
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	77.7-125			
Total Xylenes	5.90	0.150	mg/kg	6.00		98.4	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0972		mg/kg	0.100		97.2	72-148			

LCS Dup (8050812-BSD1)

Prepared & Analyzed: 08-May-18

Benzene	1.99	0.050	mg/kg	2.00		99.5	79.5-124	0.759	6.5	
Toluene	1.97	0.050	mg/kg	2.00		98.5	75.5-127	0.227	7.02	
Ethylbenzene	1.96	0.050	mg/kg	2.00		97.9	77.7-125	0.765	7.83	
Total Xylenes	5.86	0.150	mg/kg	6.00		97.6	70.9-124	0.796	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0923		mg/kg	0.100		92.3	72-148			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8050810 - General Prep - Organics

Blank (8050810-BLK1)

Prepared & Analyzed: 08-May-18

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.4		mg/kg	50.0		86.7	41-142			
Surrogate: 1-Chlorooctadecane	38.4		mg/kg	50.0		76.7	37.6-147			

LCS (8050810-BS1)

Prepared & Analyzed: 08-May-18

GRO C6-C10	206	10.0	mg/kg	200		103	76.5-133			
DRO >C10-C28	198	10.0	mg/kg	200		99.2	72.9-138			
Total TPH C6-C28	405	10.0	mg/kg	400		101	78-132			
Surrogate: 1-Chlorooctane	45.1		mg/kg	50.0		90.2	41-142			
Surrogate: 1-Chlorooctadecane	42.5		mg/kg	50.0		85.0	37.6-147			

LCS Dup (8050810-BSD1)

Prepared & Analyzed: 08-May-18

GRO C6-C10	209	10.0	mg/kg	200		104	76.5-133	1.14	20.6	
DRO >C10-C28	200	10.0	mg/kg	200		100	72.9-138	0.959	20.6	
Total TPH C6-C28	409	10.0	mg/kg	400		102	78-132	1.05	18	
Surrogate: 1-Chlorooctane	45.7		mg/kg	50.0		91.4	41-142			
Surrogate: 1-Chlorooctadecane	43.2		mg/kg	50.0		86.5	37.6-147			

Batch 8050811 - General Prep - Organics

Blank (8050811-BLK1)

Prepared: 08-May-18 Analyzed: 09-May-18

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.8		mg/kg	50.0		106	41-142			
Surrogate: 1-Chlorooctadecane	55.1		mg/kg	50.0		110	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
11-May-18 14:26

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8050811 - General Prep - Organics

LCS (8050811-BS1)

Prepared: 08-May-18 Analyzed: 09-May-18

GRO C6-C10	210	10.0	mg/kg	200		105	76.5-133			
DRO >C10-C28	210	10.0	mg/kg	200		105	72.9-138			
Total TPH C6-C28	420	10.0	mg/kg	400		105	78-132			
Surrogate: 1-Chlorooctane	55.8		mg/kg	50.0		112	41-142			
Surrogate: 1-Chlorooctadecane	59.2		mg/kg	50.0		118	37.6-147			

LCS Dup (8050811-BS1)

Prepared: 08-May-18 Analyzed: 09-May-18

GRO C6-C10	216	10.0	mg/kg	200		108	76.5-133	2.71	20.6	
DRO >C10-C28	219	10.0	mg/kg	200		109	72.9-138	4.15	20.6	
Total TPH C6-C28	435	10.0	mg/kg	400		109	78-132	3.43	18	
Surrogate: 1-Chlorooctane	55.9		mg/kg	50.0		112	41-142			
Surrogate: 1-Chlorooctadecane	59.1		mg/kg	50.0		118	37.6-147			

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 P.O. Box 805
 Hobbs NM, 88241

 Project: SMITH RANCH FEDERAL #2
 Project Number: NONE GIVEN
 Project Manager: Cliff Brunson
 Fax To: (575) 397-0397

 Reported:
 11-May-18 14:26

Soluble (DI Water Extraction) - Quality Control
Green Analytical Laboratories

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

Batch B805075 - General Prep - Wet Chem
Blank (B805075-BLK1)

Prepared & Analyzed: 10-May-18

Chloride	ND	10.0	mg/kg wet							
----------	----	------	-----------	--	--	--	--	--	--	--

LCS (B805075-BS1)

Prepared & Analyzed: 10-May-18

Chloride	235	10.0	mg/kg wet	250		94.2	85-115			
----------	-----	------	-----------	-----	--	------	--------	--	--	--

LCS Dup (B805075-BSD1)

Prepared & Analyzed: 10-May-18

Chloride	234	10.0	mg/kg wet	250		93.6	85-115	0.562	20	
----------	-----	------	-----------	-----	--	------	--------	-------	----	--

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:															
Address: P.O. Box 805				Company:															
City: Hobbs		State: NM Zip: 88241		Attn: <i>Isbell</i>															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: <i>COG</i>															
Project #:		Project Owner: <i>COG</i>		City:															
Project Name: <i>Smith Ranch Fed #2</i>				State: Zip:															
Project Location:				Phone #:															
Sampler Name: <i>Jeff Ornelas</i>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.			(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING							
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME			
11	SP 2	@	1	5	1			✓				✓			5-4-18	1:15			
12	SP 2	@	2	5	1			✓				✓			1:31				
13	SP 3	@	Sur	5	1			✓				✓			1:45				
14	SP 3	@	1	5	1			✓				✓			2:11				
15	SP 3	@	2	5	1			✓				✓			2:33				
16	SP 3	@	3	5	1			✓				✓			3:11				
17	SP 4	@	Sur	5	1			✓				✓			3:15				
18	SP 4	@	1	5	1			✓				✓			5-7-18	4:14			
19	SP 4	@	2	5	1			✓				✓			4:45				
20	SP 5	@	Sur	5	1			✓				✓			10:45				

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: <i>5-7-18</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Jeff Ornelas</i>	Time: <i>5:00pm</i>	<i>Heather Brunson</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: <i>5-8-18</i>	Received By:	REMARKS:	
<i>Heather Brunson</i>	Time: <i>5:07</i>	<i>Cliff Brunson</i>	<i>CC email COG</i>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	<i>RUSH!</i>	
Sampler - UPS - Bus - Other: <i>-7.80/-7.85</i>	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>JA</i>		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476

[illegible]

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Jeff Oulas</i>		Date: <i>5/7/18</i>		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <i>5:00pm</i>		<i>Theresa Gomez</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Relinquished By:		Date: <i>5-8-18</i>		Received By:		REMARKS:	
<i>Theresa Gomez</i>		Time: <i>8:17</i>		<i>Jodi Benson</i>		<i>cc email COG</i>	
Delivered By: (Circle One)		Sample Condition		CHECKED BY:		<i>RUSH!</i>	
Sampler - UPS - Bus - Other: <i>-7.8°C/-7.85°C</i>		Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		<i>JA</i>			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2176



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of 4

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Cliff Brunson				P.O. #:																							
Address: P.O. Box 805				Company:																							
City: Hobbs		State: NM Zip: 88241		Attn: <i>Ph Stall</i>																							
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: <i>COG</i>																							
Project #:		Project Owner: <i>COG</i>		City:																							
Project Name: <i>Smith Ranch Fed #2</i>				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: <i>Jeff Ornelas</i>				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING													
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME													
<i>H80175</i>																											
<i>31</i>		<i>SP 8 @ Sur</i>		<i>5</i>		<i>1</i>								<i>5-7-18 1:25</i>													
<i>32</i>		<i>SP 8 @ 1</i>		<i>5</i>		<i>1</i>								<i>1:41</i>													
<i>33</i>		<i>SP 8 @ 2</i>		<i>5</i>		<i>1</i>								<i>2:15</i>													
<i>34</i>		<i>SP 8 @ 3</i>		<i>5</i>		<i>1</i>								<i>2:22</i>													
<i>35</i>		<i>SP N @ Sur</i>		<i>5</i>		<i>1</i>								<i>2:33</i>													
<i>36</i>		<i>SP E @ Sur</i>		<i>5</i>		<i>1</i>								<i>2:44</i>													
<i>37</i>		<i>SP W @ Sur</i>		<i>5</i>		<i>1</i>								<i>2:55</i>													
<i>38</i>		<i>SP S @ Sur</i>		<i>5</i>		<i>1</i>								<i>3:11</i>													
		<i>Handic Sample 5-8-18</i>																									

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Jeff Ornelas</i>		Date: <i>5/7/18</i>		Received By: <i>Jodi Benson</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <i>5:00pm</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Relinquished By: <i>Jodi Benson</i>		Date: <i>5-8-18</i>		Received By: <i>Jodi Benson</i>		REMARKS:	
		Time: <i>3:17</i>				<i>cc email COG</i>	
Delivered By: (Circle One)		Sample Condition		CHECKED BY:		<i>RUSH!</i>	
Sampler - UPS - Bus - Other: <i>-7.80/-7.85</i>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		<i>J</i>			

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May 21, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SMITH RANCH FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 05/11/18 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
21-May-18 12:41

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 9 @ 4'	H801322-01	Soil	10-May-18 15:00	11-May-18 09:30
SP 9 @ 5'	H801322-02	Soil	10-May-18 15:10	11-May-18 09:30

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
21-May-18 12:41**SP 9 @ 4'**
H801322-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	--------------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	5760		16.0	mg/kg	4	8051411	AC	14-May-18	4500-Cl-B	QM-07
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	5540		200	mg/kg wet	200	B805121	JDA	17-May-18	EPA300.0	
----------	------	--	-----	-----------	-----	---------	-----	-----------	----------	--

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
21-May-18 12:41**SP 9 @ 5'**
H801322-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	--------------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	8051411	AC	14-May-18	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	16.5		10.0	mg/kg wet	10	B805121	JDA	17-May-18	EPA300.0	
----------	------	--	------	-----------	----	---------	-----	-----------	----------	--

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
21-May-18 12:41

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 8051411 - 1:4 DI Water									
Blank (8051411-BLK1)									
					Prepared & Analyzed: 14-May-18				
Chloride	ND	16.0	mg/kg						
LCS (8051411-BS1)									
					Prepared & Analyzed: 14-May-18				
Chloride	432	16.0	mg/kg	400		108	80-120		
LCS Dup (8051411-BSD1)									
					Prepared & Analyzed: 14-May-18				
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
21-May-18 12:41**Soluble (DI Water Extraction) - Quality Control****Green Analytical Laboratories**

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

Batch B805121 - General Prep - Wet Chem**Blank (B805121-BLK1)**

Prepared: 16-May-18 Analyzed: 17-May-18

Chloride ND 10.0 mg/kg wet

LCS (B805121-BS1)

Prepared: 16-May-18 Analyzed: 17-May-18

Chloride 232 10.0 mg/kg wet 250 92.8 85-115

LCS Dup (B805121-BSD1)

Prepared: 16-May-18 Analyzed: 17-May-18

Chloride 235 10.0 mg/kg wet 250 93.9 85-115 1.23 20

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

May 29, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SMITH RANCH FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 05/22/18 11:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
29-May-18 16:29

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2 @ 3'	H801408-01	Soil	17-May-18 10:30	22-May-18 11:20
4 @ 3'	H801408-02	Soil	17-May-18 11:11	22-May-18 11:20
7 @ 5'	H801408-03	Soil	17-May-18 12:45	22-May-18 11:20
8 @ 4'	H801408-04	Soil	17-May-18 14:01	22-May-18 11:20
NORTH @ SURFACE	H801408-05	Soil	17-May-18 14:39	22-May-18 11:20
EAST @ SURFACE	H801408-06	Soil	17-May-18 15:15	22-May-18 11:20
SOUTH @ SURFACE	H801408-07	Soil	17-May-18 15:30	22-May-18 11:20

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
29-May-18 16:29**2 @ 3'****H801408-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	640		16.0	mg/kg	4	8052206	AC	22-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	500		50.0	mg/kg wet	50	B805183	JDA	24-May-18	EPA300.0	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
29-May-18 16:29**4 @ 3'****H801408-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	8052206	AC	22-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	12.3		10.0	mg/kg wet	10	B805183	JDA	24-May-18	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
29-May-18 16:29**7 @ 5'****H801408-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	512		16.0	mg/kg	4	8052206	AC	22-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	479		10.0	mg/kg wet	10	B805183	JDA	24-May-18	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
29-May-18 16:29**8 @ 4'****H801408-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	8052206	AC	22-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	21.8		10.0	mg/kg wet	10	B805183	JDA	24-May-18	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
29-May-18 16:29**NORTH @ SURFACE****H801408-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	8052206	AC	22-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	27.6		10.0	mg/kg wet	10	B805183	JDA	24-May-18	EPA300.0	
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Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
29-May-18 16:29**EAST @ SURFACE****H801408-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	8052206	AC	22-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	23.5		10.0	mg/kg wet	10	B805183	JDA	24-May-18	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
29-May-18 16:29**SOUTH @ SURFACE****H801408-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	8052206	AC	22-May-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	22.7		10.0	mg/kg wet	10	B805183	JDA	24-May-18	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
29-May-18 16:29

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 8052206 - 1:4 DI Water									
Blank (8052206-BLK1)					Prepared & Analyzed: 22-May-18				
Chloride	ND	16.0	mg/kg						
LCS (8052206-BS1)					Prepared & Analyzed: 22-May-18				
Chloride	432	16.0	mg/kg	400		108 80-120			
LCS Dup (8052206-BSD1)					Prepared & Analyzed: 22-May-18				
Chloride	432	16.0	mg/kg	400		108 80-120	0.00	20	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
29-May-18 16:29

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B805183 - General Prep - Wet Chem

Blank (B805183-BLK1)

Prepared: 24-May-18 Analyzed: 25-May-18

Chloride ND 10.0 mg/kg wet

LCS (B805183-BS1)

Prepared & Analyzed: 24-May-18

Chloride 240 10.0 mg/kg wet 250 96.1 85-115

LCS Dup (B805183-BSD1)

Prepared & Analyzed: 24-May-18

Chloride 234 10.0 mg/kg wet 250 93.5 85-115 2.74 20

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																				
Project Manager: Cliff Brunson				P.O. #:																								
Address: P.O. Box 805				Company:																								
City: Hobbs State: NM Zip: 88241				Attn:																								
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																								
Project #: Project Owner: COG				City:																								
Project Name: Smith Ranch Feat 2				State: Zip:																								
Project Location:				Phone #:																								
Sampler Name: Jeff Orndas				Fax #:																								
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																				
Lab I.D.	Sample I.D.	GRAB OR (COMP. #)	CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME														
H801408		G	1										5/17/18	1030	CL	4500												
1	2 @ 3'	G	1										5/17/18	1111	CL	300												
2	4 @ 3'	G	1										5/17/18	1245														
3	2 @ 5'	G	1										5/17/18	201														
4	8 @ 4'	G	1										5/17/18	239														
5	N @ Surface	G	1										5/17/18	315														
6	E @ Surface	G	1										5/17/18	330														
7	S @ Surface	G	1										5/17/18															

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Relinquished By:	Date: 5/17/18	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Jeff Orndas	Time: 9:30pm	[Signature]	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Relinquished By:	Date: 5-22-18	Received By:	REMARKS:
[Signature]	Time: 11:20	Jamara [Signature]	
Delivered By: (Circle One)	- 3.82	Sample Condition	CHECKED BY (Initials)
Sampler - UPS - Bus - Other:	Corrected - 3.85	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	TP - #75
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

July 09, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SMITH RANCH FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 07/02/18 9:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
09-Jul-18 17:01

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP5 @ 4'	H801795-01	Soil	25-Jun-18 09:30	02-Jul-18 09:05
SP5 @ 5'	H801795-02	Soil	25-Jun-18 09:55	02-Jul-18 09:05

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
09-Jul-18 17:01**SP5 @ 4'**
H801795-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	8070207	AC	03-Jul-18	4500-Cl-B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
09-Jul-18 17:01**SP5 @ 5'**
H801795-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	--------------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	8070207	AC	03-Jul-18	4500-Cl-B	
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Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	<10.0		10.0	mg/kg wet	10	B807045	AES	09-Jul-18	EPA300.0	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
09-Jul-18 17:01**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 8070207 - 1:4 DI Water									
Blank (8070207-BLK1)									
				Prepared & Analyzed: 02-Jul-18					
Chloride	ND	16.0	mg/kg						
LCS (8070207-BS1)									
				Prepared & Analyzed: 02-Jul-18					
Chloride	416	16.0	mg/kg	400		104	80-120		
LCS Dup (8070207-BSD1)									
				Prepared & Analyzed: 02-Jul-18					
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: SMITH RANCH FEDERAL #2
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
09-Jul-18 17:01

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B807045 - General Prep - Wet Chem

Blank (B807045-BLK1)

Prepared: 05-Jul-18 Analyzed: 06-Jul-18

Chloride	ND	1.00	mg/kg wet							
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LCS (B807045-BS1)

Prepared: 05-Jul-18 Analyzed: 06-Jul-18

Chloride	245	10.0	mg/kg wet	250		98.1	85-115			
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LCS Dup (B807045-BSD1)

Prepared: 05-Jul-18 Analyzed: 06-Jul-18

Chloride	245	10.0	mg/kg wet	250		97.9	85-115	0.159	20	
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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager


CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																				
Project Manager: Cliff Brunson				P.O. #:																								
Address: P.O. Box 805				Company: <i>COG</i>																								
City: Hobbs		State: NM Zip: 88241		Attn: <i>Betsy Haskell</i>																								
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																								
Project #:		Project Owner:		City:																								
Project Name: Smith Ranch Federal #002				State: Zip:																								
Project Location: Lea County, NM				Phone #:																								
Sampler Name: Jeff Ornelas				Fax #:																								
FOR LAB USE ONLY																												
Lab I.D.		Sample I.D.		G (GRAB OR C/COMP.) # CONTAINERS		MATRIX				PRESERV.		SAMPLING		<div style="display: flex; justify-content: space-around; font-size: 2em;"> CI-4500 CI-300 </div>														
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL													OTHER:	DATE	TIME
<i>H801795</i>		1 SP5 @ 4'		G										6/25/18	9:30 AM	✓												
<i>2</i>		2 SP5 @ 5'		G										6/25/18	9:55 AM	✓ ✓												
<i>740</i> <i>6/29/18</i>																												

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Relinquished By: <i>Jeff Ornelas</i>		Date: <i>6/25/18</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <i>1:30 pm</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Relinquished By: <i>[Signature]</i>		Date: <i>6/27/18</i>		Received By: <i>[Signature]</i>		REMARKS:	
		Time: <i>3:05</i>					
Delivered By: (Circle One) <i>4.6c</i>		Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: <i>Corrected 4.55c</i>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		<i>70-#75</i> <i>Has some head space</i>			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating, LLC (OGRID# 229137)	Contact: Robert McNeill	
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No.: 432-683-7443	
Facility Name: Smith Ranch Federal #002	Facility Type: Tank Battery	
Surface Owner: BLM	Mineral Owner: Federal	API No.: 30-025-31138

LOCATION OF RELEASE

Unit Letter C	Section 11	Township 20S	Range 33E	Feet from the 660	North/South Line North	Feet from the 1980	East/West Line West	County Lea
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Latitude: 32.5931206 Longitude: -103.6361542 NAD83

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 50bbbls	Volume Recovered: 40bbbls
Source of Release: Tank	Date and Hour of Occurrence: 3/31/2018	Date and Hour of Discovery: 3/31/2018 2:30pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu-NMOCD Shelly Tucker-BLM	
By Whom? Sheldon Hitchcock	Date and Hour: April 1, 2018 8:50pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

RECEIVED

By Olivia Yu at 1:14 pm, Apr 03, 2018

Describe Cause of Problem and Remedial Action Taken.*

The produced water tank failed around the bottom releasing approximately 50bbbls of fluid. The tank will be replaced.

Describe Area Affected and Cleanup Action Taken.*

All of the fluid remained inside of the berms of the unlined tank battery. A vacuum truck was utilized to recover all freestanding fluids. Concho will have the spill area evaluated for any possible impact from the release and we will present a remediation work plan to NMOCD for approval prior to any significant remediation activities.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Sheldon Hitchcock</i>		OIL CONSERVATION DIVISION	
Printed Name: Sheldon L. Hitchcock		Approved by Environmental Specialist: <i>by</i>	
Title: HSE Coordinator	Approval Date: 4/3/2018	Expiration Date:	
E-mail Address: slhitchcock@concho.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>	
Date: 4/2/2018	Phone: 575-746-2010		

* Attach Additional Sheets If Necessary

1RP-5007

nOY1809347988

pOY1809348164

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 4/2/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-5007 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 5/3/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us