

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of 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 OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: HUGO NAEGELE Title: MEMBER

Signature: *H Naegele Jr* Date: 1-26-23

email: Naegelehugo@gmail.com Telephone: 575-390-1250

OCD Only

Received by: OCD Date: 1/26/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: *Ashley Maxwell* Date: 2/01/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist



Basin Alliance - Closure Plan

State AJ #1

API No. 30-025-28083

1RP-3680

Release Date: 6/13/2015

Unit G, Section 33, Township 18S, Range 36E



Hungry Horse, LLC

4024 Plains Highway

Lovington, NM 88260

December 19, 2019

New Mexico Energy, Minerals & Natural Resources
Oil Conservation Division, Environmental Bureau – District I
C/O Brad Billings
1625 N. French Drive
Hobbs, NM 88240

RE: Closure Report Request
Basin Alliance, LLC
State AJ #1
UL/G, S33, T28S, R36E
API No. 30-025-28083

Dear Brad,

Basin Alliance originally retained White Buffalo Environmental to address the environmental concerns for the site detailed herein. The site was delineated by White Buffalo Environmental and later remediated by Hungry Horse, LLC.

The site is located in Lea County. The incident occurred during a severe rain and lightning storm on the evening of Saturday June 13th, of 2015. Not only did it burn down the facility but also caused a release of approximately 900bbls of produced water. The fluid was released onto the pad and pasture area as reported on the C141 that is attached herein. Although they did recover approximately 1150bbls of fluid, this fluid included not only the production fluids, but also rain water and water/chemical used to extinguish the fire. The visual surface stained area included the explosion release point that occurred at the facility which was lined and bermed. The bermed area was approximately 49,400 sq. ft. Two pooling areas were formed, one being on the south to southwest corner of the pad covering approximately 750 sq. ft. The area in the east of the pad covered approximately 1,575 sq. ft. The combined area of impact at the time of the release was 51,725 sq. ft.

The original workplan for this release was submitted and received on August 7th of 2015. With the following phases to be completed by Basin Alliance, this information is detailed herein:

Phase I: Work on the southwest corner of the location, to remediate the chloride impacted soils.

Phase II: Work on the southeast corner of the location to remediate the chloride impacted soils.

Phase III: Remediate the area three which was in the flow pattern 60' SE of the wellhead.

Phase IV: Remediate the old facility area that would be taken care of at the time of plugging the site.

On June 30th of 2015 Basin Alliance started loading and hauling contaminated soil to take to a local landfarm. This work continued thru July 6th of 2015 and at this time they used a blade to clean off the entire location and continued to haul off the impacted soil to a local landfarm unit July 16th of 2015. A total of 1,362 cubic yards of impacted soil was hauled off to Lazy Ace Land-Farm. A total of 1,008 cubic yards of clean material was purchased from Lacy Ace Landfill for backfill. This material was backhauled to cut down on expenses. Soil samples were taken by Basin Alliance on June 16th of 2015. The sample data is found below and detailed in the report herein:

Pooling Area 1:

8"bgs – 2680 mg/kg chloride, <0.300 mg/kg BTEX and 533.5 mg/kg TPH

Pooling Area 2:

8"bgs – 608 mg/kg chloride, <0.300 mg/kg BTEX and <10 mg/kg TPH

60' from the Wellhead:

1.5'bgs – 3200 mg/kg chloride, <0.300 mg/kg BTEX and 1850 mg/kg TPH

NE Corner of Tank Battery:

1'bgs – 688 mg/kg chloride, <0.300 mg/kg BTEX, 1776.5 mg/kg TPH

****Please note that on the previously drawn sample map, the sample points are as follows:**

SP1 – SE Corner

SP2 – SW Corner

SP3 – 60' SE of Wellhead

SP4 – Old Tank Battery Site

On January 15th, 2019 an email was received by Brad Billings of the NMOCD (New Mexico Oil Conservation Division) stating the following:

The original period to come into compliance expired on November 2018, 90 past the effective date of the new rule (29). As there were numerous (I have responsibility now for 5000 plus releases and more than 100 operators), of which operators that did not contact OCD for arrangements for their site(s), the letter was engendered. You may consider the date of this email as the start for the grace period of 90 days to bring this site into compartment and thus compliance with the new release rule. I will try to respond to all operators in a chronological order, ergo the time lapse.

While we are sensitive to your financial situation, there is no allotment for time consideration relative to finances in the new rule.

OCD has found one site (1RP-3680) that needs attention. It should be handled relative to new rule data/reporting needs. Information on characterization and/or remediation should be directed to Brad Billings, not the District Staff, via email. In

PDF format please and again, as per new rule structure/needs. New rule is available online on the OCD website if you do not have a copy.

At this time, Basin Alliance contacted White Buffalo Environmental where I, Natalie Gladden was currently the Environmental and Regulatory Director, to take care of the environmental concerns associated to the Basin Alliance, State AJ SWD. Below you will find the information that was formulated by conducting document review and followed by a site inspection to determine the best course of action to get this release into compliance.

Ground Water Information

WBE had conducted a groundwater study of the area and determined that according to the New Mexico Office of the State Engineer the vadose zone depth at this release site was estimated to a depth of 63' bgs (below ground surface). The records or observed water wells within 1000 horizontal feet of this site are listed below:

L-13333 POD 1 – 448' from the site at 63' bgs
L-13333 POD 2 – 450' from the site at 63' bgs
L-01550 POD 2 – 849' from this site at 70' bgs

Average depth to ground water at this site is 65' bgs, with a minimum depth of 63' bgs and a maximum depth at 70' bgs.

With the data collected during the groundwater research, there are three verifiable records of ground water in the vicinity to the site mentioned above. Specific well data is shown in the groundwater section of this report.

The Closure Criteria for Soils impacted by the Release is below, based on ground water at 63' bgs, the below standard was followed during the delineation phase of the project:

DGW	Constituent	Method	Limit
51'-100'	Chloride	EPA 300.0 OR SM4500 CLB	10,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	2,500 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	1,000 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	50 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

Delineation Conducted by WBE for 1RP-3680

On January 24th of 2019, White Buffalo Environmental personnel – initiated the delineation of this site as per Basin Alliance, LLC. The previous designated area of contamination began in the SE Corner of the pad and continued to the pasture area outside the pad base. The site was measured, photo'd and soil sampling was conducted and field tested for chloride using the Titration Method and BTEX/TPH by use of a PID Meter. This site was delineated using both the old and new rule for Spill Cleanup. The new rule was used to get a representation of the contamination and impacted areas for this release based on the depth of groundwater and time lapse from the original release. Please note that previous delineation did not fully represent the impactation of this site. Therefore, the site was fully delineated by WBE as per the NMOCD. Field testing indicated the following concentrations were found at the surface of the impacted area:

Sample ID	Chloride	BTEX/TPH
SP1	2200	NO DETECTION
SP2	6960	NO DETECTION
SP3	1760	NO DETECTION
SP4	9200	NO DETECTION
SP5	1840	NO DETECTION
SP6	3200	NO DETECTION
SP7	1200	NO DETECTION
SP8	2240	NO DETECTION
SP9	13200	NO DETECTION
SP10	1040	NO DETECTION
SP11	480	BTEX/TPH NOTED
SP12	8000	NO DETECTION
SP13	6400	NO DETECTION

SP14	1440	NO DETECTION
SP15	8400	NO DETECTION
SP16	2080	NO DETECTION
SP17	2240	NO DETECTION
SP18	1600	NO DETECTION
SP19	4000	BTEX/TPH NOTED
SP20	1200	NO DETECTION
SP21	1280	NO DETECTION
SP22	400	NO DETECTION
SP23	720	NO DETECTION
SP24	12560	NO DETECTION
SP25	3040	NO DETECTION
SP26	1360	NO DETECTION
SP27	560	NO DETECTION

At this time the impacted area was fully delineated both horizontally and vertically to show the migration of the chloride, BTEX and TPH contamination. Vertical soil samples were taken by use of hand auger and track-hoes. Soil was field tested for chloride using both the chloride strip method as well as titration. A PID meter was also used to indicate volatile concentrations for both BTEX and TPH. Soil samples were taken from 27 sample points which included both pad and pasture areas as indicated on the sample map attached herein.

The vertical bottom hole samples for the impacted area inside the fence on the pad area and the pasture area are as follows and represent the confirmed concentrations by Cardinal Laboratories:

**Please note that the lab confirmation data is included and notated in the yellow marked area.

Sample ID	Ft	Field Chl	Tit	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH
SP1	SUR	2240		0						
	2'	640		0						
	4'	400		0						
	6'	640		0						
	8'	480		0						
	10'	480	480	0	160	<0.300	<10	<10	<10	<10
SP2	SUR	6960		0						
	2'	320		0						
	4'	560		0						
	6'	720		0						
	8'	560		0						
	10'	720		0						
	12'	720		0						
	14'	560		0						
	16'	480	480	0	192	<0.300	<10	<10	<10	<10
SP3	SUR	1760		0						
	2'	400		0						
	4'	240	400	0	128	<0.300	<10	<10	<10	<10
SP4	SUR	9200		0						
	2'	1200		0						
	4'	240		0						
	6'	480		0						
	8'	480	400	0	208	<0.300	<10	<10	<10	<10
SP5	SUR	1840		0						
	2'	800		0						
	4'	240		0						
	6'	560		0						
	8'	480	480	0	144	<0.300	<10	<10	<10	<10
SP6	SUR	3200		0						
	2'	1680		0						
	4'	960		0						
	6'	1200		0						
	8'	1040		0						
	10'	960		0						
	12'	800		0						
	14'	560		0						
		16'	480	480	0	112	<0.300	<10	<10	<10
SP7	SUR	1200		0						
	2'	2640		0						

	4'	2400		0						
	6'	2240		0						
	8'	1200		0						
	10'	880		0						
	12'	1220		0						
	14'	720		0						
	16'	400		0						
	18'	400	360	0	32	<0.300	<10	<10	<10	<10
SP8	SUR	2240		0						
	2'	880		0						
	4'	560		0						
	6'	720		0						
	8'	1120		0						
	10'	880		0						
	12'	480		0						
	14'	480	800	0	560	<0.300	<10	<10	<10	<10
SP9	SUR	13200		0						
	2'	1120		0						
	4'	1200		0						
	6'	1120		0						
	8'	1040		0						
	10'	800		0						
	12'	560		0						
	14'	560		0						
	16'	160	400	0	128	<0.300	<10	<10	<10	<10
SP10	SUR	1040		0						
	2'	560		0						
	4'	480	800	0	576	<0.300	<10	<10	<10	<10
SP11	SUR	480		0						
	2'	160		0						
	4'	160	800	0	96	<0.300	<10	<10	<10	<10
SP12	SUR	8000		0						
	2'	400		0						
	4'	400	400	0	512	<0.300	<10	12.1	<10	12.1
SP13	SUR	6400		0						
	2'	480		0						
	4'	480	800	0	560	<0.300	<10	<10	<10	<10
SP14	SUR	1440		0						
	2'	880		0						
	4'	880		0						
	6'	400		0						

	8'	320	400	0	272	<0.300	<10	<10	<10	<10
SP15	SUR	8400		0						
	2'	4000		0						
	4'	1360		0						
	6'	1200		0						
	8'	800		0						
	10'	240		0						
	12'	160	240	0	64	<0.300	<10	<10	<10	<10
SP16	SUR	2080		0						
	2'	1440		0						
	4'	1280		0						
	6'	1040		0						
	8'	1200		0						
	10'	1120		0						
	12'	880		0						
	14'	320		0						
	16'	480		0						
	18'	480		0						
	20'	320	160	0	64	<0.300	<10	<10	<10	<10
SP17	SUR	2240		0						
	2'	1240		0						
	4'	1080		0						
	6'	1080		0						
	8'	840		0						
	10'	1040		0						
	12'	1120		0						
	14'	560		0						
	16'	480	240	0	304	<0.300	<10	<10	<10	<10

SP18	SUR	1600		0						
	2'	1520		0						
	4'	800		0						
	6'	560		0						
	8'	400	400	0	48	<0.300	<10	<10	<10	<10
SP19	SUR	4000		0						
	2'	1920		0						
	4'	960		0						
	6'	1280		0						
	8'	1120		0						
	10'	640		0						
	12'	800		0						
	14'	720		0						
	16'	560		0						
	18'	480	560	0	416	<0.300	<10	27.8	13.2	41
SP20	SUR	1200		0						
	2'	800		0						
	4'	1120		0						
	6'	960		0						
	8'	640		0						
	10'	560		0						
	12'	400	400	0	144	<0.300	<10	<10	<10	<10
SP21	SUR	1280		0						
	2'	800		0						
	4'	960		0						
	6'	800		0						
	8'	720		0						
	10'	640		0						
	12'	560		0						
	14'	320	560	0	208	<0.300	<10	<10	<10	<10
SP22	SUR	400		0						
	2'	960		0						
	4'	1120		0						
	6'	800		0						
	8'	640		0						
	10'	480		0						
	12'	480	320	0	96	<0.300	<10	<10	<10	<10
SP23	SUR	720		0						
	2'	720		0						
	4'	800		0						
	6'	1280		0						

	8'	1040		0						
	10'	560		0						
	12'	480	400	0	176	<0.300	<10	<10	<10	<10
SP24	SUR	12560		0						
	2'	1680		0						
	4'	1680		0						
	6'	880		0						
	8'	480		0						
	10'	400	240	0	48	<0.300	<10	<10	<10	<10
SP25	SUR	3040		0						
	2'	1760		0						
	4'	960		0						
	6'	980		0						
	8'	320	240	0	64	<0.300	<10	<10	<10	<10
SP26	SUR	1360		0						
	2'	2240		0						
	4'	1200		0						
	6'	800		0						
	8'	560		0						
	10'	360	400	0	64	<0.300	<10	<10	<10	<10
SP27	SUR	560		0						
	2'	800		0						
	4'	640		0						
	6'	800		0						
	8'	720		0						
	10'	560		0						
	12'	400	400	0	240	<0.300	<10	<10	<10	<10

The horizontal sidewall sample results for the impacted area are as follows and have been confirmed by Cardinal Laboratories:

SW1	SUR	880		0						
	1'	880		0						
	2'	960		0						
	3'	480		0						
	4'	480	400	0	272	<0.300	<10	<10	<10	<10
SW2	SUR	320		0						
	1'	240	1360	0	96	<0.300	<10	<10	<10	<10
SW3	SUR	400		0						
	1'	240	960	0	16	<0.300	<10	<10	<10	<10
SW4	SUR	400		0						

1'	320	960	0	160	<0.300	<10	<10	<10	<10
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All final samples were trended, jarred and delivered to Cardinal Laboratories for confirmation. Please see the sample data sheet for the sample trending documentation attached herein.

Karst Mapping

The Karst Mapping data found for this site is located inside a low karst area. The site was delineated to meet the BLM and NMOCD standards for Karst Areas. Please see the Karst Map attached herein.

Remediation Plan Conclusion

White Buffalo Environmental submitted the following remediation work plan to Brad Billings of the NMOCD Santa Fe office:

White Buffalo Environmental would like to propose the following scope of work to remediate this site detailed herein. The original square footage of the pad area was 51, 725' of known impacted area. But since 2015 no other releases have occurred so the area outside of the fenced area is all due to migration of the release as well as this area was not tested during the original work performed in 2015. There was visible evidence that the vegetation had been affected by the release. Below you will find the scope of work that was needed to get this site into compliance.

Based on the new rule, the only area's that fell above the closure criteria was SP9 and SP24. These two areas just needed the surface excavated to a depth of 6" and hauled off to an approved disposal facility. The rest of the pad will be back-dragged and contoured back to its natural state. The pasture area will only need to be reseeded and with the lack of natural topsoil (approximately 6"), WBE proposed bringing in 1' of topsoil, ripping and reseeded the area.

The workplan was submitted to Santa Fe on February 21st of 2019 for approval.

In July of 2019, this site was turned over to Hungry-Horse, LLC under my direction.

Remediation Plan Meeting with NMOCD

On August 16th, 2019 Hungry-Horse resubmitted the workplan for approval. On August 19th, a meeting was scheduled by Dylan Rose-Coss the Environmental Scientist, along with Brad Billings of the NMOCD out of Santa Fe. The meeting was scheduled for August 21st of 2019.

On the said date above, I met with Brad Billings and Dylan Rose-Coss to discuss the remediation workplan that needed approval for the Basin Alliance State AJ SWD. During the meeting, it was determined that the pad remediation was approved as written in the Work Plan Proposal, with some added requirements. The NMOCD requested that we excavate 4'bgs out of the pasture area to be excavated and hauled to a local disposal, with backfilling with 4' of clean topsoil. The reason for this modification was to allow the native vegetation to take place. An email was sent to NMOCD to confirm the modifications and the work plan was approved by the NMOCD on August 27th of 2019.

Remediation of Impacted Areas

On September 25th of 2019 Hungry-Horse began the remediation of the State AJ #1 SWD. HH crews began excavating the pad area immediately following the clearance of the one-call. A total of 6" of contaminated soil was hauled to disposal. Samples were taken to verify that the site was ready for closure samples. These samples were taken to Envirotech for confirmation. The NMOCD was notified to verify final samples, we waited the required 48-hour timeframe and no one was available for witnessing of closure samples. Therefore, closure samples of the site were taken, jarred and sent to Envirotech for confirmation.

The pasture area was excavated to 4'bgs, hauled to disposal and backfilled with clean soil. The pad and pasture area were contoured back to its natural state. The pasture area was then ripped and reseeded with BLM #3 seed.

The closure samples were broken out into three groups:

Area A: East pasture area

Area B: Pad area

Area C: South pasture area

The sample data below represents both the field sampling, along with the confirmed lab analysis to meet the closure requirements for this site:

Area A:

AREA A									
SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL
SP1 COM	4'	480	0						
SP2 COM	4'	400	0						
SP3 COM	4'	400	0						
SP4 COM	4'	400	0						
SP5 COM	4'	480	0						
SP6 COM	4'	320	0						
COM MIX	4'	400	0	ND	ND	ND	ND	ND	56.5
SW1		360	0	ND	ND	ND	ND	ND	113
SW2		400	0	ND	ND	ND	ND	ND	71.2
SW3		440	0	ND	ND	ND	ND	ND	84.2
SW4		400	0	ND	ND	ND	ND	ND	102
SW5		360	0	ND	ND	ND	ND	ND	77.1
SW6		360	0	ND	ND	ND	ND	ND	309
SW7		400	0	ND	ND	ND	ND	ND	103
SW8		400	0	ND	ND	ND	ND	ND	283
SW9		320	0	ND	ND	ND	ND	ND	284
SW10		360	0	ND	ND	ND	ND	ND	44.5

Area B:

AREA B									
SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL
SP1 COM	6"	320							
SP2 COM	6"	160							
SP3 COM	6"	400							
SP4 COM	6"	480							
SP5 COM	6"	400							
COM MIX	6"	480	ND	ND	ND	ND	ND	ND	25.5
SW1		520	ND	ND	ND	ND	ND	ND	29.1
SW2		520	ND	ND	ND	ND	ND	ND	ND
SW3		480	ND	ND	ND	ND	ND	ND	72.8
SW4		400	ND	ND	ND	ND	ND	ND	88.5

Area C:

AREA C									
SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL
SP1 COM	4'	480							
SP2 COM	4'	400							
SP3 COM	4'	320							
SP4 COM	4'	400							
SP5 COM	4'	480							
COM MIX	4'	400	ND	ND	ND	ND	ND	ND	211
SW1		320	ND	ND	ND	ND	ND	ND	168
SW2		400	ND	ND	ND	ND	ND	ND	59.7
SW3		480	ND	ND	ND	ND	ND	ND	177
SW4		400	ND	ND	ND	ND	ND	ND	171

Once the above analysis was received the site was then backfilled. The pad area was backfilled with caliche and the pasture areas were backfilled with 2' of caliche and 2' of topsoil. The pasture area was then ripped and seeded with BLM #3 seed.

Please find the sample data, lab analysis and photos of the remediated site attached herein.

Conclusion

At this time Hungry-Horse LLC along with Basin Alliance would like to request Closure of this environmental incident according to the approved Remediation Plan. If you have any questions or concerns about this site please do not hesitate to contact me at any time.

Sincerely,



Natalie Gladden

Director of Environmental & Regulatory Services

4024 Plains Highway

Lovington, NM 88260

Cell: (575)-390-6397

Email: ngladden@hungry-horse.com

Attachments:

2015 Delineation
2015 NMOCD Letters and Notifications
Groundwater Data
WBE Delineation Data
WBE Sample Map
Karst Map
2019 Work Plan
2019 Work Plan Approval Emails
2019 Remediation Sample Data
2019 Remediation Photos
2019 Closure Sample Data
2019 Closure Sample Map
2019 Closure Lab Analysis
2019 Closure Photos
Final C141

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 August 8, 2011

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: Basin Alliance LLC	Contact: Hugo Naegele Jr	
Address: PO Box 1378	Telephone No.: 575-392-5999 Cell: 575-390-1250	
Facility Name: State AJ #1 SWD	Facility Type: SWD	
Surface Owner State of New Mexico	Mineral Owner	API No. 30-025-28083

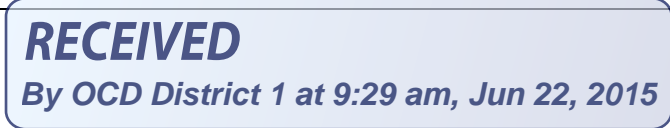
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	33	18S	36E	2310	North	2310	East	Lea

Latitude 32.704932 North Longitude -103.358345 West

NATURE OF RELEASE

Type of Release Fluid	Volume of Release (appx 900)	Volume Recovered (over 1150)
Source of Release Lighting storm struck the tank battery and caught fire.	Date and Hour of Occurrence: 6-13-15 6PM	Date and Hour of Discovery: 6-13-15 6:14pm
Was Immediate Notice Given? X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD office in Hobbs, NM	
By Whom? Hugo Naegele Jr	Date and Hour: 6-14-2015 2PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes X No	If YES, Volume Impacting the Watercourse.	



If a Watercourse was Impacted, Describe Fully.*
Attachment

Describe Cause of Problem and Remedial Action Taken.*
Attachment

Describe Area Affected and Cleanup Action Taken.*
Attachment

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.

OIL CONSERVATION DIVISION	
Signature: Hugo Naegele Jr	Approved by Environmental Specialist:
Printed Name: Hugo Naegele Jr	Approval Date: 06/22/2015 Expiration Date: 09/22/2015
Title: Member	Conditions of Approval: Site samples required. Delineate and remediate as per MNOCD guides. Geotag photographs of remediation required.
E-mail Address: hnaegele55@bajabb.com	Attached <input type="checkbox"/> 168776 IRP-3680
Date: 6-14-2015 Phone: 575-392-5999	

* Attach Additional Sheets If Necessary

nKJ1517335905
pKJ1517336044

Basin Alliance, LLC

P. O. Box 1378
Hobbs, New Mexico 88241
Hugo Naegele (575) 390-1250

SUMMARY OF EVENTS AND FIELD ACTIVITIES

**Basin Alliance
State AJ #1**

**Lea County, New Mexico
UNIT G, Section 33, Township 18S, Range 36E
Latitude, Longitude 32° .704932" North, -103° .358345 West**

June 19, 2015

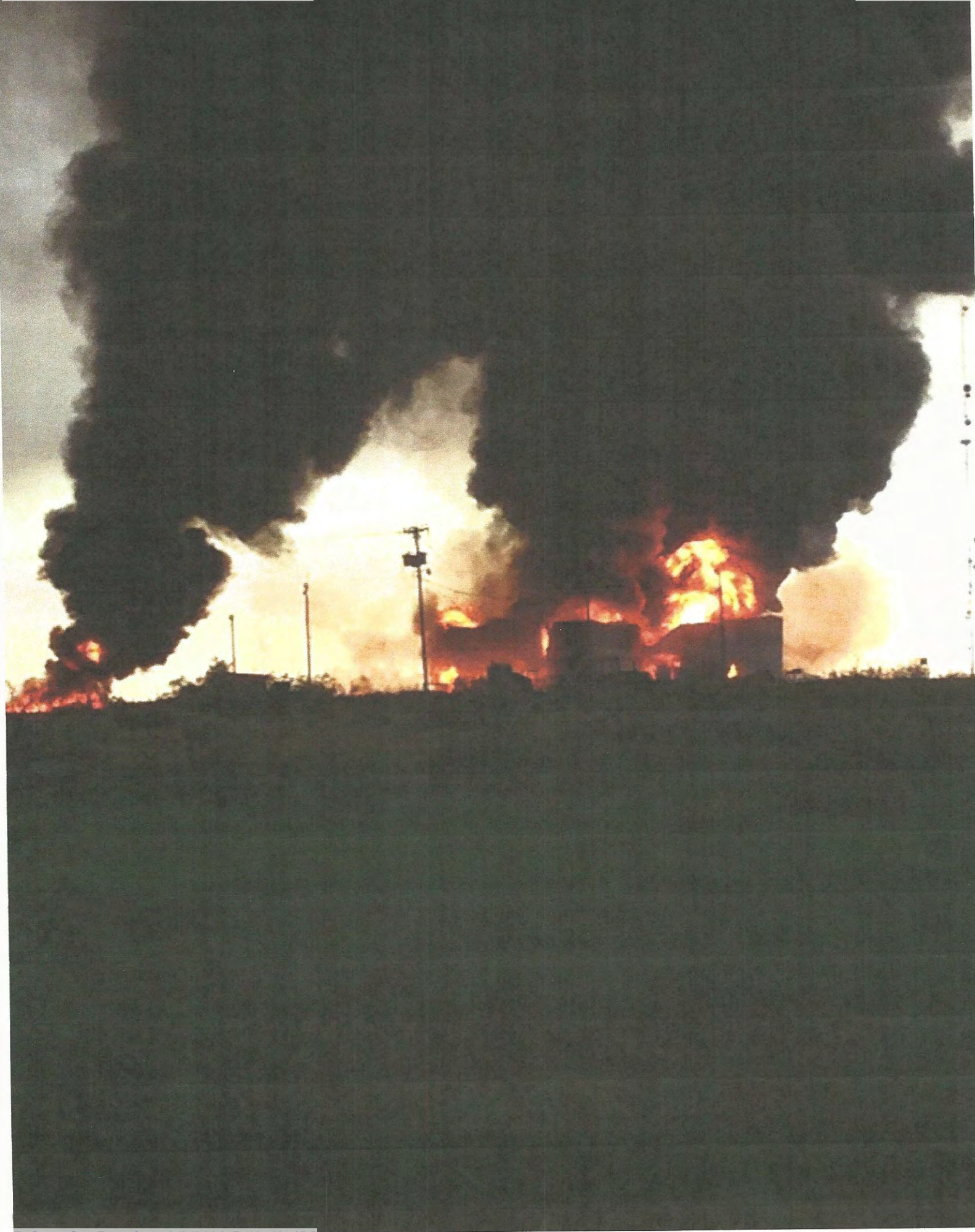
Hugo Naegele
Basin Alliance, LLC

SUMMARY OF EVENTS AND FIELD ACTIVITIES

During a severe rain and lighting storm on the evening of Saturday June 13, 2015 the tank battery at the State AJ #1 caught fire due to a lighting strike. Sunday morning, as soon as, the conditions were safe the area was assessed and clean up was started. Two vacuum trucks were dispatched one to remove the fluid from the tanks displacing the fluid into portable frac tanks and the other to began removing fluid off the ground within the burm. The clean up of free fluids from the rain as well as the release continued on Monday June 15, 2015. Following the removal of the free fluid from within the burm area the impacted soils has been excavated and temporarily stockpiled on a poly liner until further remediation can be accomplished. The tank battery is now being disassembled and the burmed tank battery area will then be assessed for clean up.

This site is located in Unit G, Section 33, Township 18 South, Range 36 East, in Lea County, New Mexico. The latitude is 32°.704932' and the longitude is -103°.358345'. The site is characterized by a right-of-way for the State AJ #1 disposal well and tank battery. The surrounding area outside the pump station is primarily open range utilized for cattle grazing and oilfield production activities. The visible surface stained area includes the explosion release point including the lined and burmed tank battery, as well as, the burmed location covering an area approximately 190 feet long by 260 feet wide at the widest point. Two pooling areas were formed one in the Southwest Corner of the location (pooling area 1) 25 feet long by 30 feet wide and one in the Southeast Corner of the location (pooling area 2) 45 feet long by 35 feet long. Approximately 900 barrels of fluid was released from the tanks during the explosion with over 1150 barrels of fluid recovered. The increase in fluid is attributed to the heavy rain fall from the storm.

Ms. Kellie Jones, with the New Mexico Oil Conservation Division (NMOCD), in the Hobbs, New Mexico office was verbally notified Monday June 15, 2015 of the release. As advised by Ms. Jones a C-141 form, dated June 15, 2015 has been completed by Basin Alliance and has been submitted with this summary of events.







AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pKJ1517336044

1RP - 3680

BASIN ALLIANCE LLC

2/12/2016

HOBBS OCD

AUG 07 2015

RECEIVED

Basin Alliance LLC State AJ #1 SWD

Summary of events:

On June 13, 2015; Saturday around 6pm a thunderstorm (with heavy lightening) went through central Lea County. Basin Alliance LLC State AJ #1 located off of 62/180 and state road 483, received a direct strike on one of our oil storage tanks. It resulted in a total loss of our facility and the release of produce water and oil. Most of the oil was burnt off on site. The Hobbs, Monument and Knowles Fire departments responded. The fire was too hot to try to extinguish for the first couple of hours. We (Hugo Naegele and Robert Layton owners) sat there and watched it burn. The next morning we had equipment and personnel picking up P/W, oil and rain water. Once all the fluid was picked up and carried off to the proper disposal, we had a backhoe to pick up the contaminated soil and had it placed onto plastic on site. We started on emptying all the vessels containing any fluid. Once the vessels were emptied and the fluid hauled to the proper disposal, a crew started cutting up all the vessels and removed them off location. Before we could blade the location another storm passed by dumped around 2" of rain water and we had to wait for the ground to dry up. Two loads (260 bbls) of rain water were hauled off to a public SWD. A blade was then hired to scrape the top foot off the location pad and the soil was sent to a land farm. After the location was cleaned off, we had a third party to take soil samples and waited for the results. (Map and Results attached).

After reviewing the results; we would like to continue doing business on our location. We know the chlorides are high but they are not

screaming hot and we would like to build a facility in the same general area of the old tank battery (chlorides 688) lined with heavy plastic and start taking produce water, while continuing to cleaning up the site in phases to comply with NMOCD regulations.

Phase one: Work on the Southeast corner of the location to clean up the chlorides in that area. That was the area that most of the fluid flowed to.

Phase two: Start work on the southwest corner of the location to clean up the chlorides in that area.

Phase three: Clean up area three which was in the flow pattern 60' SE of the wellhead.

Phase four: Would be the area of the old battery site that would be at the time of plugging.

Daily reports:

June 14, 2015; Sunday around 7am, we called out two vacuum trucks, a roustabout gang and set two frac tanks to hold fluid. That day we picked up 1240 bbls of fluid. 980 bbls was put in the frac tanks and 260 bbls hauled to a public SWD.

June 15, 2015; we had three vacuum trucks emptying tanks and hauling to a disposal. A backhoe was used to gather up contaminated soil. A gang was used to help the trucks empty the tanks. Hauled 360 bbls of solids to Sundance disposal.

June 16, 2015; had two vacuum trucks were used to empty the tanks. A blade used to scape an area (that was not contaminated) to lay down the plastic. A gang was used to help with the plastic and to help clean the tanks. A backhoe used to pick up the contaminated soil.

June 17, 2015; we released the frac tanks. Three vacuum trucks were used to clean tanks and a pump truck to jet out the tanks. A backhoe used to pick up contaminated soil. The gang was used to help clean the tanks. Hauled 240 bbls of solids to Sundance disposal.

June 18, 2015; two vacuum trucks were used to clean out tanks and a transport to jet out. The gang was used to help clean the tanks. Hauled 240 bbls of solids to Sundance disposal.

June 19, 2015; two vacuum trucks from H2Oil to empty a tank.

June 22, 2015; rained

June 23-25, 2015 Cutting tanks

June 29, 2015; rained, cutting tanks.

June 30, 2015; had a frontend loader load contaminated soil to take to a land farm. Vacuum truck picked up 260 bbls of rain water to haul to a public disposal.

July 1, 2015; had a frontend loader load contaminated soil to take to a land farm. Vacuum truck used to picked up 130 bbls of rain water to haul to a public disposal.

July 2, 2015; had a frontend loader load contaminated soil to take to a land farm.

July 3, 2015; had a frontend loader load contaminated soil to take to a land farm.

July 6, 2015; had a frontend loader load contaminated soil to take to a land farm.

July 10, 2015; used a blade to clean off the whole location

July 13, 2015; used a backhoe to haul contaminated soil to a land farm

July 14, 2015; used a backhoe to haul contaminated soil to a land farm

July 15, 2015; used a backhoe to haul contaminated soil to a land farm and took soil samples.

July 16, 2015; used a backhoe to haul contaminated soil to a land farm



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BASIN ALLIANCE
HUGO NAEGELE
P. O. BOX 1378
HOBBS NM, 88241
Fax To:

Received: 06/16/2015
Reported: 06/17/2015
Project Name: STATE AJ #1 SWD
Project Number: NONE GIVEN
Project Location: T 18S R36E SEC. 33 G

Sampling Date: 06/16/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: POOLING AREA 1 8" BGL (H501567-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2015	ND	1.76	88.2	2.00	1.88		
Toluene*	<0.050	0.050	06/16/2015	ND	1.76	88.1	2.00	1.47		
Ethylbenzene*	0.063	0.050	06/16/2015	ND	1.80	89.9	2.00	1.01		
Total Xylenes*	<0.150	0.150	06/16/2015	ND	4.95	82.4	6.00	0.0159		
Total BTEX	<0.300	0.300	06/16/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 98.4 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	06/17/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	13.5	10.0	06/16/2015	ND	186	92.9	200	0.840		
DRO >C10-C28	365	10.0	06/16/2015	ND	197	98.5	200	1.32		
EXT DRO >C28-C35	155	10.0	06/16/2015	ND						

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 138 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BASIN ALLIANCE
 HUGO NAEGELE
 P. O. BOX 1378
 HOBBS NM, 88241
 Fax To:

Received: 06/16/2015
 Reported: 06/17/2015
 Project Name: STATE AJ #1 SWD
 Project Number: NONE GIVEN
 Project Location: T 18S R36E SEC. 33 G

Sampling Date: 06/16/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: POOLING AREA 2 8" BGL (H501567-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/17/2015	ND	1.76	88.2	2.00	1.88		
Toluene*	<0.050	0.050	06/17/2015	ND	1.76	88.1	2.00	1.47		
Ethylbenzene*	<0.050	0.050	06/17/2015	ND	1.80	89.9	2.00	1.01		
Total Xylenes*	<0.150	0.150	06/17/2015	ND	4.95	82.4	6.00	0.0159		
Total BTEX	<0.300	0.300	06/17/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 98.8 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	06/17/2015	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/16/2015	ND	186	92.9	200	0.840		
DRO >C10-C28	<10.0	10.0	06/16/2015	ND	197	98.5	200	1.32		
EXT DRO >C28-C35	<10.0	10.0	06/16/2015	ND						

Surrogate: 1-Chlorooctane 98.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 123 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BASIN ALLIANCE
 HUGO NAEGELE
 P. O. BOX 1378
 HOBBS NM, 88241
 Fax To:

Received:	07/16/2015	Sampling Date:	07/15/2015
Reported:	07/22/2015	Sampling Type:	Soil
Project Name:	STATE AJ #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	T 18S R36E SEC. 33 G-LEA CTY., NM		

Sample ID: 60' SE OF WELLHEAD @ 1.5' (H501836-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	<0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	<0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	<0.300	0.300	07/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 85.6-137

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	07/22/2015	ND	416	104	400	7.41	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/20/2015	ND	196	97.8	200	0.213	
DRO >C10-C28	1800	50.0	07/20/2015	ND	213	107	200	14.6	

Surrogate: 1-Chlorooctane 64.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BASIN ALLIANCE
 HUGO NAEGELE
 P. O. BOX 1378
 HOBBS NM, 88241
 Fax To:

Received: 07/16/2015
 Reported: 07/22/2015
 Project Name: STATE AJ #1 SWD
 Project Number: NONE GIVEN
 Project Location: T 18S R36E SEC. 33 G-LEA CTY., NM

Sampling Date: 07/15/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: NW CORNER TANK BATTERY @ 1' (H501834-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	0.100	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	0.275	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	0.376	0.300	07/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PII) 114 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	07/22/2015	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	66.5	50.0	07/20/2015	ND	196	97.8	200	0.213	
DRO >C10-C28	1710	50.0	07/20/2015	ND	213	107	200	14.6	

Surrogate: 1-Chlorooctane 69.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 122 % 52.1-176

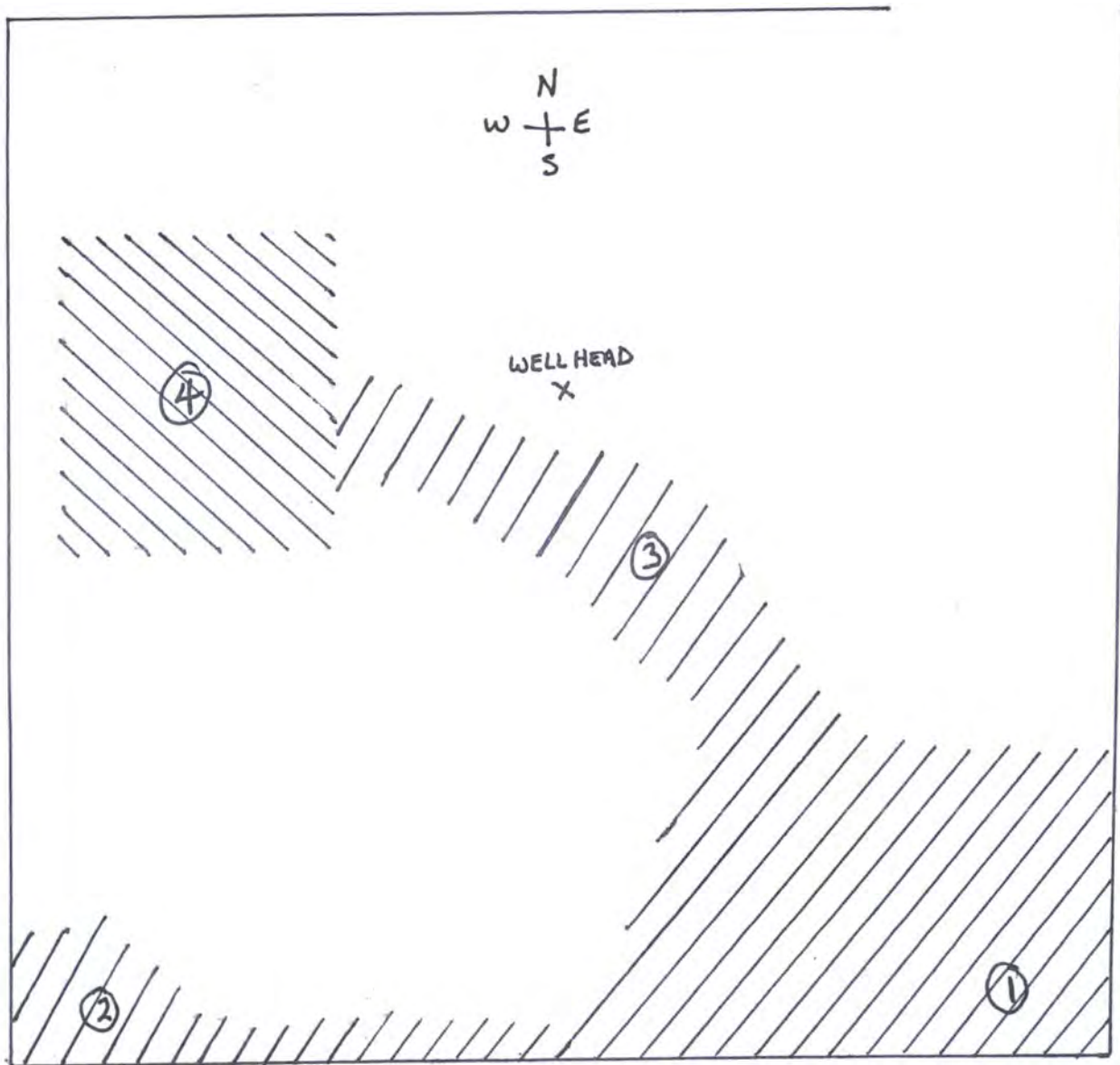
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Celey D. Keene, Lab Director/Quality Manager

BASIN ALLIANCE ST. AJ #1 SWD



 - flow pattern

 - old tank battery site

- 1) SE CORNER
- 2) SW CORNER
- 3) 60' SE WELL HEAD
- 4) old tank battery site



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
L_13333_POD1	L	LE	3 2 2 33 18S 36E	654191	3620085	448	100	63	37						
L_13333_POD2	L	LE	3 2 2 33 18S 36E	654191	3620088	450	95	63	32						
L_01550_POD2	L	LE	4 3 4 28 18S 18E	654123	3620580	849	190	70	120						

Average Depth to Water: **65 feet**
 Minimum Depth: **63 feet**
 Maximum Depth: **70 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 653873.83

Northing (Y): 3619767.72

Radius: 1000

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.

1/28/19 9:54 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)					
Well Tag	POD Number	(quarters are smallest to largest)	Q64 Q16 Q4	Sec	Tws	Rng	X	Y			
L	13333 POD1		3	2	2	33	18S	36E	654191	3620085	

Driller License: 1186	Driller Company: ENVIRO-DRILL, INC.	
Driller Name: HAMMER, RODNEY (LD)		
Drill Start Date: 05/28/2013	Drill Finish Date: 05/29/2013	Plug Date:
Log File Date: 06/07/2013	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 2.00	Depth Well: 100 feet	Depth Water: 63 feet

Water Bearing Stratifications:	Top	Bottom	Description
	62	100	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	0	60

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1/28/19 9:55 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
L 13333	POD2	3 2 2 33	18S	36E	654191	3620088	

Driller License: 1186	Driller Company: ENVIRO-DRILL, INC.	
Driller Name: HAMMER, RODNEY (LD)		
Drill Start Date: 05/28/2013	Drill Finish Date: 05/29/2013	Plug Date:
Log File Date: 06/07/2013	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 2.00	Depth Well: 95 feet	Depth Water: 63 feet

Water Bearing Stratifications:	Top	Bottom	Description
	63	95	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	54	74

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1/28/19 9:55 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)						
		(quarters are smallest to largest)				(NAD83 UTM in meters)		
		Q64 Q16 Q4 Sec Tws Rng	X	Y				
	L 01550 POD2	4 3 4 28 18S 18E	654123	3620580				

Driller License: 122	Driller Company: UNKNOWN	
Driller Name:		
Drill Start Date: 02/23/2009	Drill Finish Date: 02/24/2009	Plug Date:
Log File Date: 03/12/2009	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 5.00	Depth Well: 190 feet	Depth Water: 70 feet

Water Bearing Stratifications:	Top	Bottom	Description
	70	110	Sandstone/Gravel/Conglomerate
	110	187	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	170	190

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.








1/28/19 9:56 AM

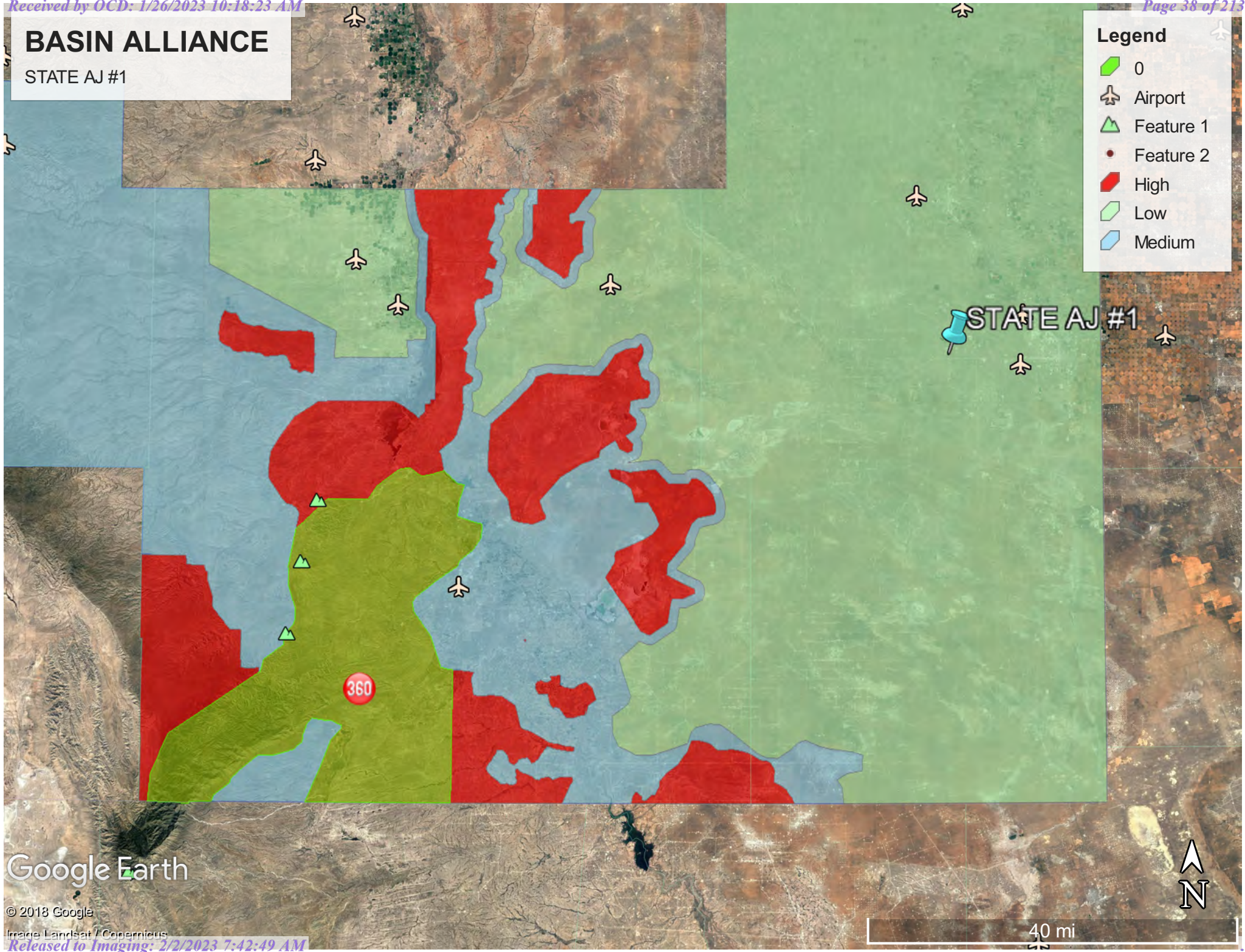
POINT OF DIVERSION SUMMARY

BASIN ALLIANCE

STATE AJ #1

Legend

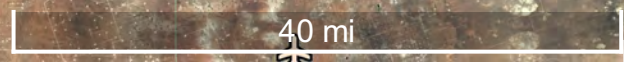
-  0
-  Airport
-  Feature 1
-  Feature 2
-  High
-  Low
-  Medium



Google Earth

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Image Landsat / Copernicus





DELINEATION PLAN

State AJ #1

API NO. 30-025-28083

1RP-3680

Release Date: 6/13/15

Unit G, Section 33, Townsh p 18S, Range 36E

February 21, 2019

Prepared By:



White Buffalo Environmental, Inc.

407 East Broadway

Hobbs, NM 88240

Phone: (575)738-0424

Fax: (575)738-0430



February 21, 2019

New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District I
c/o Brad Billings
1625 N. French Drive
Hobbs, NM 88240

Re: Delineation Plan Request
Basin Alliance, LLC
State AJ #1
UL/G, S33, T18S, R36E
API No. 30-025-28083

Dear Brad,

Basin Alliance has retained White Buffalo Environmental to address environmental concerns for the site detailed herein.

The site is located in Lea County. The incident occurred during a severe rain and lightning storm on the evening of Saturday June 13th, 2015 for the above-mentioned site. Not only did it burn the facility but also approximately 900bbls of produced water was released onto the pad and pasture area as reported in the C141 that is attached herein. Although they did recover approximately 1150bbls of fluid, which included rain water from the storm. The visual surface stained area included the explosion release point which included the lined and bermed tank battery. As well as, the bermed location covering an area of approximately 49,400 sq. ft. Two pooling areas were formed one in the southwest corner of the pad covering approximately 750 sq. ft. And the area on the southeast corner of the pad covering approximately 1,575 sq. ft. The combined area of impact at the time of the release was 51,725 sq. ft.

The original workplan was submitted and received August 7th of 2015. With the following phases to be completed, which is attached herein:

*Phase I: Work on the southwest corner of the location to clean up the chlorides
Phase II: Start work on southwest corner of the location to clean up the chlorides*

Phase III: Clean up area three which was in the flow pattern 60' SE of the wellhead.

Phase IV: Clean up the old battery site that would be at the time of plugging the site.

On June 30th of 2015 Basin Alliance started loading and hauling contaminated soil to take to the land farm. This work continued thru July 6th, 2015 and at this time they used a blade to clean off the entire location and continued to haul off the impacted soil to a local land-farm until July 16th, 2015. A total of 1,362 cubic yards of contaminated soil was excavated and hauled to Lazy Ace Land-farm, documentation of this can be sent if needed. A total of 1,008 cubic yards of clean material was purchased from Lazy Ace Land-farm for backfill. Documentation of backfill can be sent in if requested. Soil samples were taken by Basin Alliance on June 16th, 2015. The sample information is found below and detailed in the report herein:

Pooling Area 1 8": 2680 mg/kg chloride, <0.300 mg/kg BTEX, 533.5 mg/kg TPH

Pooling Area 2 8": 608 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH

60' SE of wellhead 1.5': 3200 mg/kg chloride, <0.300 mg/kg BTEX, 1850 mg/kg TPH

NE corner of TB 1': 688 mg/kg chloride, <0.300 mg/kg BTEX, 1776.5 mg/kg TPH

On the previous sample map the sample points are as follows:

SP1 – SE Corner

SP2 – SW Corner

SP3 – 60' SE of wellhead

SP4 – Old Tank Battery Site

On January 15th, 2019 an email was received by yourself, Brad Billings stating the following.

The original period to come into compliance expired in November 2018, 90 days post effective date of new rule (29). As there were numerous (I have responsibility now for 5000 plus releases and more than 100 operators) operators that did not contact OCD for arrangements for their site(s), the letter was engendered. You may consider the date of this email as the start for a grace 90 days to bring site into compartment and thus compliance with the new release rule. I try to respond to all operators in a chronological order, ergo the time lapse.

While we are sensitive to your financial situation, there is no allotment for time consideration relative to finances in the new rule.

OCD has found one site (1R-3680) that needs attention. It should be handled relative to new rule data/reporting needs. Information on characterization and or remediation should be directed to me, not District staff, via email. In PDF format please, and again, as per new rule structure/needs. New rule is available on line on OCD website if you do not have a copy.

At this time, Basin Alliance contacted White Buffalo Environmental to take care of the environmental concerns for the site listed and detailed herein.

Ground Water Information

WBE has conducted a groundwater study of the area and determined that according to the New Mexico Office of the Engineer the vadose zone depth at this release location is estimated at a depth of 63'bgs. The records or observed water wells within 1000 horizontal feet of this site are listed below:

L-13333 POD 1 – 448' from site at 63'bgs

L-13333 POD 2 – 450' from site at 63'bgs

L-01550 POD 2 – 849' from site at 70'bgs

Average depth to ground water at this site is 65'bgs, with minimum depth at 63'bgs and maximum depth at 70'bgs.

With the data collected during the groundwater research, there are three verifiable records of groundwater in the vicinity to the site mentioned above. Specific well data is shown in the groundwater section of this report.

The Closure Criteria for Soils impacted by the Release is below, based on groundwater at 63'bgs the below standard was followed during the delineation phase of this project:

DGW	Constituent	Method	Limit
51'-100'	Chloride	EPA 300.0 OR SM4500 CLB	10,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	2,500 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	1,000 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	50 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

WBE Delineation for 1RP-3680

On January 24th of 2019, White Buffalo Environmental personnel-initiated the delineation of this site as per Basin Alliance. The previous designated area of contamination began in the SE Corner of the pad and continued to the pasture

area outside the pad base. The site was measured, photo'd and soil samples were collected and field tested for chloride and BTEX. This site was delineated using both the old and new rule for Spill Cleanup. The new rule was used to get a representation of the contamination in this area due to depth of groundwater and time lapse from the original release. Field testing indicated the following concentrations were found at the surface of the impacted area:

SP1: 2200 mg/kg chloride, no BTEX/TPH noted
SP2: 6960 mg/kg chloride, no BTEX/TPH noted
SP3: 1760 mg/kg chloride, no BTEX/TPH noted
SP4: 9200 mg/kg chloride, no BTEX/TPH noted
SP5: 1840 mg/kg chloride, no BTEX/TPH noted
SP6: 3200 mg/kg chloride, no BTEX/TPH noted
SP7: 1200 mg/kg chloride, no BTEX/TPH noted
SP8: 2240 mg/kg chloride, no BTEX/TPH noted
SP9: 13200 mg/kg chloride, no BTEX/TPH noted
SP10: 1040 mg/kg chloride, no BTEX/TPH noted
SP11: 480 mg/kg chloride, BTEX/TPH noted
SP12: 8000 mg/kg chloride, no BTEX/TPH noted
SP13: 6400 mg/kg chloride, no BTEX/TPH noted
SP14: 1440 mg/kg chloride, no BTEX/TPH noted
SP15: 8400 mg/kg chloride, no BTEX/TPH noted
SP16: 2080 mg/kg chloride, no BTEX/TPH noted
SP17: 2240 mg/kg chloride, no BTEX/TPH noted
SP18: 1600 mg/kg chloride, no BTEX/TPH noted
SP19: 4000 mg/kg chloride, BTEX/TPH noted
SP20: 1200 mg/kg chloride, no BTEX/TPH noted
SP21: 1280 mg/kg chloride, no BTEX/TPH noted
SP22: 400 mg/kg chloride, no BTEX/TPH noted
SP23: 720 mg/kg chloride, no BTEX/TPH noted
SP24: 12560 mg/kg chloride, no BTEX/TPH noted
SP25: 3040 mg/kg chloride, no BTEX/TPH noted
SP26: 1360 mg/kg chloride, no BTEX/TPH noted
SP27: 560 mg/kg chloride, no BTEX/TPH noted

At this time the impacted area was fully delineated, horizontally and vertically to show the migration of chloride contamination. Vertical soil samples were taken by use of hand auger. Soil was field tested for chloride using both the chloride strip method as well as titration. A PID meter was also used to indicate concentrations to BTEX. Soil samples were taken from 27 sample points which included both pad and pasture areas as indicated in the sample map attached.

The vertical bottom hole samples for the impacted area inside the fence on pad area and the pasture area are as follows and represent the confirmed concentrations by Cardinal Laboratories:

SP1-10'bgs: 160 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP2-16'bgs: 192 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP3-4'bgs: 128 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP4-8'bgs: 208 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP5-8'bgs: 144 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP6-16'bgs: 112 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP7-18'bgs: 32 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP8-14'bgs: 560 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP9-16'bgs: 128 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP10-4'bgs: 576 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP11-4'bgs: 96 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP12-4'bgs: 512 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP13-4'bgs: 560 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP14-8'bgs: 272 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP15-12'bgs: 64 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP16-20'bgs: 64 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP17-16'bgs: 304 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP18-8'bgs: 48 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP19-18'bgs: 416 mg/kg chloride, <0.300 mg/kg BTEX, 41 mg/kg TPH
SP20-12'bgs: 144 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP21-14'bgs: 208 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP22-12'bgs: 96 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP23-12'bgs: 176 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP24-10'bgs: 48 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP25-8'bgs: 64 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP26-10'bgs: 64 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP27-12'bgs: 240 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH

The horizontal sidewall sample results for the impacted area are as follows and have been confirmed by Cardinal Laboratories:

SW1: 4': 272 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SW2: 1': 96 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SW3: 1': 16 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SW4: 1': 160 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH

All final soil samples were trended, jarred and delivered to Cardinal Lab for confirmation. Please see the sample data sheet for the sample trending documentation attached herein.

Karst Mapping

The Karst Mapping data found for this site is located inside a low karst area. The site was delineated to meet BLM and NMOCD standards for Karst areas. Please see map attached.

Conclusion

White Buffalo Environmental would like to propose the following scope of work to remediate this site detailed herein. The original square footage of the pad area was 51,725 of known impacted area. But since 2015 no other releases have occurred so the area outside of the fenced area is all migrated contamination. There is evidence that the vegetation has been affected by the release. Below you will find the scope of work to get this site under compliance.

Based on the new rule, the only area's that fall above the closure criteria is SP9 and SP24. These two areas just need the surface excavated to a depth of 6" and hauled off to an approved disposal facility. The rest of the pad will be back-dragged and contoured back to its natural state. The pasture area will only need to be reseeded and with the lack of natural topsoil (approximately 6"), WBE would like to propose bringing in a 1' of topsoil, ripping and reseeded the area.

White Buffalo would like to thank you for allowing us to take care of your environmental issues at this site. Please contact me if you have any questions.

Sincerely,



Natalie Gladden
Environmental & Regulatory Director
White Buffalo Environmental
407 E. Broadway
Hobbs, NM 88240
Cell: (575-390-6397)

Attachments:

- C141
- Emails and Correspondence
- Groundwater Data
- Site Photographs & Site Diagram
- Karst Map's
- Sample Data
- Sample Map & Lab Analysis

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 August 8, 2011
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: Basin Alliance LLC	Contact: Hugo Naegele Jr
Address: PO Box 1378	Telephone No.: 575-392-5999 Cell: 575-390-1250
Facility Name: State AJ #1 SWD	Facility Type: SWD
Surface Owner State of New Mexico	Mineral Owner
API No. 30-025-28083	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	33	18S	36E	2310	North	2310	East	Lea

Latitude 32.704932 North Longitude -103.358345 West

NATURE OF RELEASE

Type of Release Fluid	Volume of Release (appx 900)	Volume Recovered (over 1150)
Source of Release Lighting storm struck the tank battery and caught fire.	Date and Hour of Occurrence: 6-13-15 6PM	Date and Hour of Discovery: 6-13-15 6:14pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD office in Hobbs, NM	
By Whom? Hugo Naegele Jr	Date and Hour: 6-14-2015 2PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

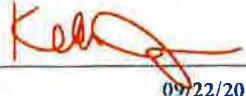
RECEIVED
By OCD District 1 at 9:29 am, Jun 22, 2015

If a Watercourse was Impacted, Describe Fully.*
Attachment

Describe Cause of Problem and Remedial Action Taken.*
Attachment

Describe Area Affected and Cleanup Action Taken.*
Attachment

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: Hugo Naegele Jr		OIL CONSERVATION DIVISION	
Printed Name: Hugo Naegele Jr		Approved by Environmental Specialist: 	
Title: Member		Approval Date: 06/22/2015	Expiration Date: 09/22/2015
E-mail Address: hnaegele55@bajabb.com		Conditions of Approval: Site samples required. Delineate and remediate as per MNOCD guides. Geotag photographs of remediation required.	
Date: 6-14-2015	Phone: 575-392-5999	Attached <input type="checkbox"/> 168776 1RP-3680	

* Attach Additional Sheets If Necessary

nKJ1517335905

pKJ1517336044

Basin Alliance, LLC

P. O. Box 1378
Hobbs, New Mexico 88241
Hugo Naegele (575) 390-1250

SUMMARY OF EVENTS AND FIELD ACTIVITIES

**Basin Alliance
State AJ #1**

**Lea County, New Mexico
UNIT G, Section 33, Township 18S, Range 36E
Latitude, Longitude 32°.704932" North, -103°.358345 West**

June 19, 2015

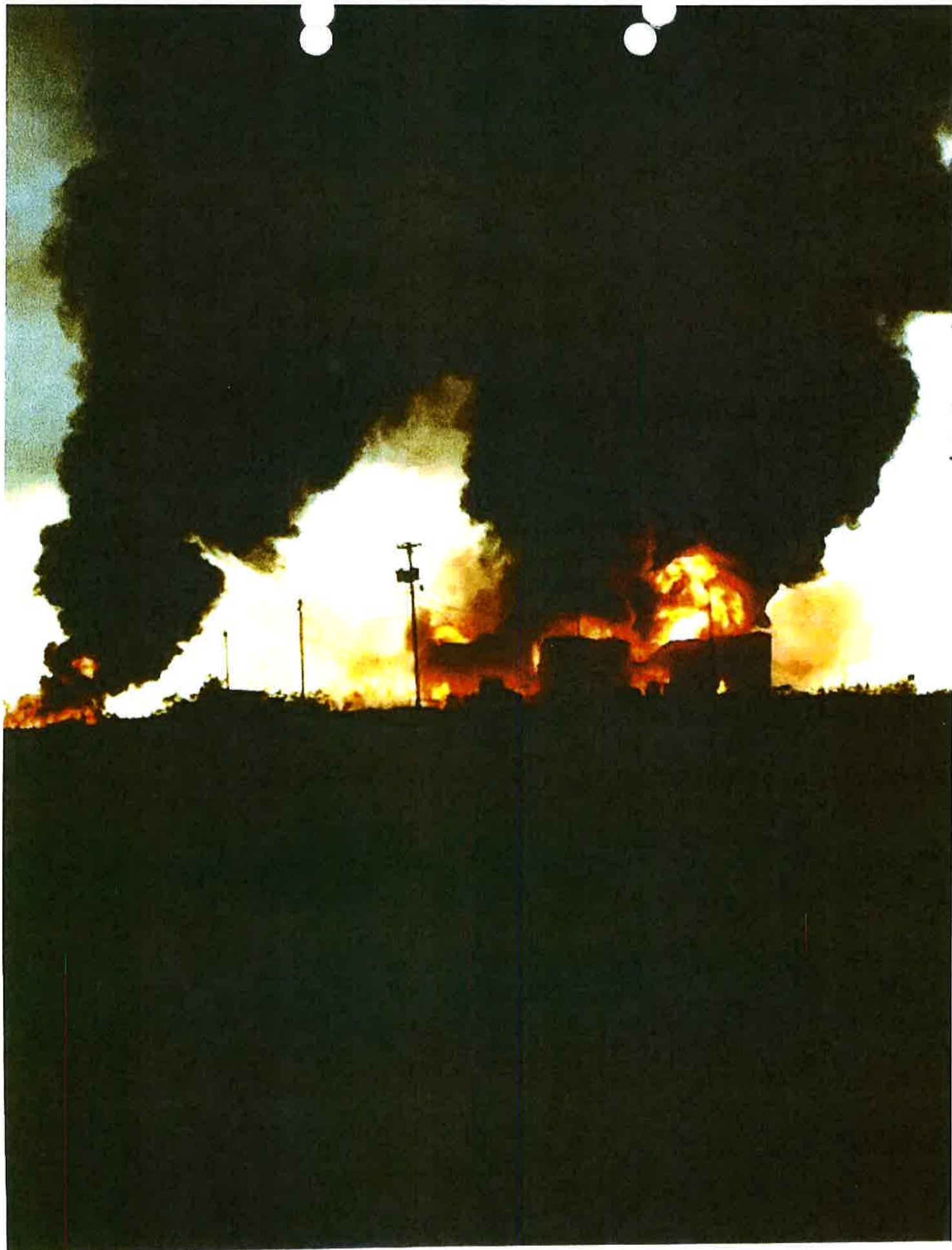
Hugo Naegele
Basin Alliance, LLC

SUMMARY OF EVENTS AND FIELD ACTIVITIES

During a severe rain and lighting storm on the evening of Saturday June 13, 2015 the tank battery at the State AJ #1 caught fire due to a lighting strike. Sunday morning, as soon as, the conditions were safe the area was assessed and clean up was started. Two vacuum trucks were dispatched one to remove the fluid from the tanks displacing the fluid into portable frac tanks and the other to began removing fluid off the ground within the burm. The clean up of free fluids from the rain as well as the release continued on Monday June 15, 2015. Following the removal of the free fluid from within the burm area the impacted soils has been excavated and temporarily stockpiled on a poly liner until further remediation can be accomplished. The tank battery is now being disassembled and the burned tank battery area will then be assessed for clean up.

This site is located in Unit G, Section 33, Township 18 South, Range 36 East, in Lea County, New Mexico. The latitude is 32°.704932" and the longitude is -103°.358345". The site is characterized by a right-of-way for the State AJ #1 disposal well and tank battery. The surrounding area outside the pump station is primarily open range utilized for cattle grazing and oilfield production activities. The visible surface stained area includes the explosion release point including the lined and burned tank battery, as well as, the burned location covering an area approximately 190 feet long by 260 feet wide at the widest point. Two pooling areas were formed one in the Southwest Corner of the location (pooling area 1) 25 feet long by 30 feet wide and one in the Southeast Corner of the location (pooling area 2) 45 feet long by 35 feet long. Approximately 900 barrels of fluid was released from the tanks during the explosion with over 1150 barrels of fluid recovered. The increase in fluid is attributed to the heavy rain fall from the storm.

Ms. Kellie Jones, with the New Mexico Oil Conservation Division (NMOCD), in the Hobbs, New Mexico office was verbally notified Monday June 15, 2015 of the release. As advised by Ms. Jones a C-141 form, dated June 15, 2015 has been completed by Basin Alliance and has been submitted with this summary of events.





SE CORNER ①



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BASIN ALLIANCE
 HUGO NAEGELE
 P. O. BOX 1378
 HOBBS NM, 88241
 Fax To:

Received: 06/16/2015
 Reported: 06/17/2015
 Project Name: STATE AJ #1 SWD
 Project Number: NONE GIVEN
 Project Location: T 185 R36E SEC. 33 G

Sampling Date: 06/16/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: POOLING AREA 1 8" BGL (H501567-01)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2015	ND	1.76	88.2	2.00	1.88	
Toluene*	<0.050	0.050	06/16/2015	ND	1.76	88.1	2.00	1.47	
Ethylbenzene*	0.063	0.050	06/16/2015	ND	1.80	89.9	2.00	1.01	
Total Xylenes*	<0.150	0.150	06/16/2015	ND	4.95	82.4	6.00	0.0159	
Total BTEX	<0.300	0.300	06/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 98.4 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	06/17/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.5	10.0	06/16/2015	ND	186	92.9	200	0.840	
DRO >C10-C28	365	10.0	06/16/2015	ND	197	98.5	200	1.32	
EXT DRO >C28-C35	155	10.0	06/16/2015	ND					

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 138 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

SW CORNER (2)



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BASIN ALLIANCE
 HUGO NAEGELE
 P. O. BOX 1378
 HOBBS NM, 88241
 Fax To:

Received: 06/16/2015
 Reported: 06/17/2015
 Project Name: STATE AJ #1 SWD
 Project Number: NONE GIVEN
 Project Location: T 18S R36E SEC. 33 G

Sampling Date: 06/16/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: POOLING AREA 2 8" BGL (H501567-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/17/2015	ND	1.76	88.2	2.00	1.88		
Toluene*	<0.050	0.050	06/17/2015	ND	1.76	88.1	2.00	1.47		
Ethylbenzene*	<0.050	0.050	06/17/2015	ND	1.80	89.9	2.00	1.01		
Total Xylenes*	<0.150	0.150	06/17/2015	ND	4.95	82.4	6.00	0.0159		
Total BTEX	<0.300	0.300	06/17/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.8% 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	06/17/2015	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/16/2015	ND	186	92.9	200	0.840		
DRO >C10-C28	<10.0	10.0	06/16/2015	ND	197	98.5	200	1.32		
EXT DRO >C28-C35	<10.0	10.0	06/16/2015	ND						

Surrogate: 1-Chlorooctane 98.9% 47.2-157

Surrogate: 1-Chlorooctadecane 123% 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Coely D. Keene

Coely D. Keene, Lab Director/Quality Manager

3



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BASIN ALLIANCE
 HUGO NAEGELE
 P. O. BOX 1378
 HOBBS NM, 88241
 Fax To:

Received:	07/16/2015	Sampling Date:	07/15/2015
Reported:	07/22/2015	Sampling Type:	Soil
Project Name:	STATE AJ #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	T 18S R36E SEC. 33 G-LEA CTY., NM		

Sample ID: 60' SE OF WELLHEAD @ 1.5' (H501836-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/21/2015	ND	1.91	95.6	2.00	2.71		
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58		
Ethylbenzene*	<0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99		
Total Xylenes*	<0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71		
Total BTEX	<0.300	0.300	07/21/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 85 6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	07/22/2015	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	07/20/2015	ND	196	97.8	200	0.213		
DRO >C10-C28	1800	50.0	07/20/2015	ND	213	107	200	14.6		

Surrogate: 1-Chlorooctane 64.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

4



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BASIN ALLIANCE
 HUGO NAEGELE
 P. O. BOX 1378
 HOBBS NM, 88241
 Fax To:

Received:	07/16/2015	Sampling Date:	07/15/2015
Reported:	07/22/2015	Sampling Type:	Soil
Project Name:	STATE AJ #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	T 18S R36E SEC. 33 G-LEA CTY., NM		

Sample ID: NW CORNER TANK BATTERY @ 1' (H501834-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/21/2015	ND	1.91	95.6	2.00	2.71		
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58		
Ethylbenzene*	0.100	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99		
Total Xylenes*	0.275	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71		
Total BTEX	0.376	0.300	07/21/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 114 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	07/22/2015	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	66.5	50.0	07/20/2015	ND	196	97.8	200	0.213		
DRO >C10-C28	1710	50.0	07/20/2015	ND	213	107	200	14.6		

Surrogate: 1-Chlorooctane 69.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 122 % 52.1-176

Cardinal Laboratories

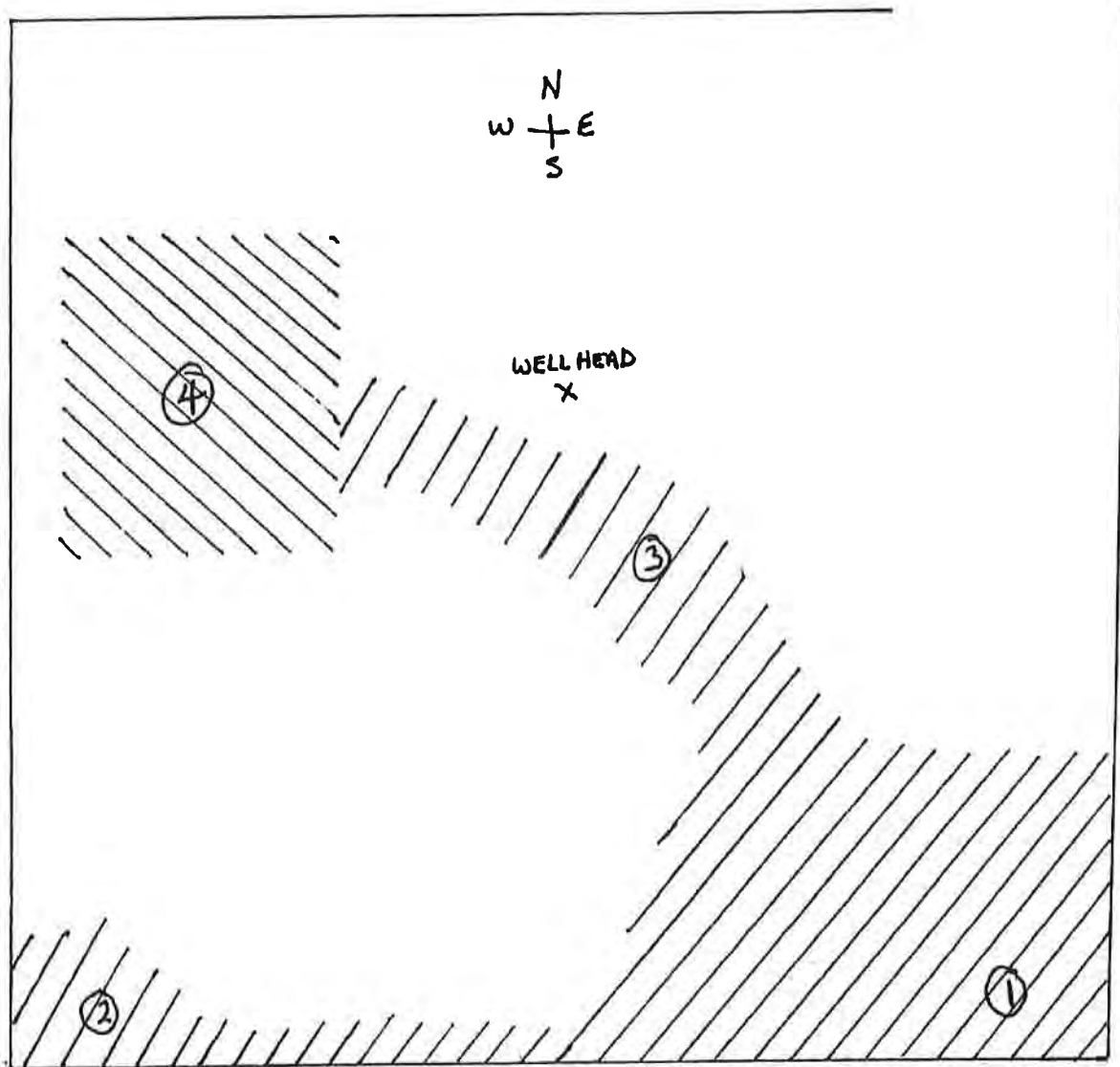
*=Accredited Analyte



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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

BASIN ALLIANCE ST. AJ #1 SWD



-  - flow pattern
-  - Old tank battery site

- 1) SE CORNER
- 2) SW CORNER
- 3) 60' SE WELL HEAD
- 4) Old tank battery site



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
L_13333_POD1		L	LE	3	2	2	33	18S	36E	654191	3620085	448	100	63	37
L_13333_POD2		L	LE	3	2	2	33	18S	36E	654191	3620088	450	95	63	32
L_01550_POD2		L	LE	4	3	4	28	18S	18E	654123	3620580	849	190	70	120

Average Depth to Water: **65 feet**
 Minimum Depth: **63 feet**
 Maximum Depth: **70 feet**

Record 3

Count:

UTMNAD83 Radius Search (in meters):

Easting (X): 653873.83

Northing (Y): 3619767.72

Radius: 1000

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.

1/28/19 9:54 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)						X	Y
		(quarters are smallest to largest) (NAD83 UTM in meters)							
		Q64	Q16	Q4	Sec	Tws	Rng		
L 13333	POD1	3	2	2	33	18S	36E	654191 3620085	

Driller License: 1186 **Driller Company:** ENVIRO-DRILL, INC.
Driller Name: HAMMER, RODNEY (LD)
Drill Start Date: 05/28/2013 **Drill Finish Date:** 05/29/2013 **Plug Date:**
Log File Date: 06/07/2013 **PCW Rcv Date:** **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:**
Casing Size: 2.00 **Depth Well:** 100 feet **Depth Water:** 63 feet

Water Bearing Stratifications:	Top	Bottom	Description
		62	

Casing Perforations:	Top	Bottom
		0

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1/28/19 9:55 AM

POINT OF DIVERSION SUMMARY

New Mexico Office of the State Engineer
Point of Diversion Summary



Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 13333	POD2	3	2	2	33	18S	36E	654191	3620088

Driller License:	1186	Driller Company:	ENVIRO-DRILL, INC.		
Driller Name:	HAMMER, RODNEY (LD)				
Drill Start Date:	05/28/2013	Drill Finish Date:	05/29/2013	Plug Date:	
Log File Date:	06/07/2013	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	2.00	Depth Well:	95 feet	Depth Water:	63 feet

Water Bearing Stratifications:	Top	Bottom	Description
		63	

Casing Perforations:	Top	Bottom
		54

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1/28/19 9:55 AM

POINT OF DIVERSION SUMMARY

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)							X	Y
		(quarters are smallest to largest)				(NAD83 UTM in meters)				
		Q64	Q16	Q4	Sec	Tws	Rng			
L 01550	POD2	4	3	4	28	18S	18E	654123	3620580	

Driller License:	122	Driller Company:	UNKNOWN		
Driller Name:					
Drill Start Date:	02/23/2009	Drill Finish Date:	02/24/2009	Plug Date:	
Log File Date:	03/12/2009	PCW Rev Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	5.00	Depth Well:	190 feet	Depth Water:	70 feet

Water Bearing Stratifications:	Top	Bottom	Description
		70	110
	110	187	Sandstone/Gravel/Conglomerate

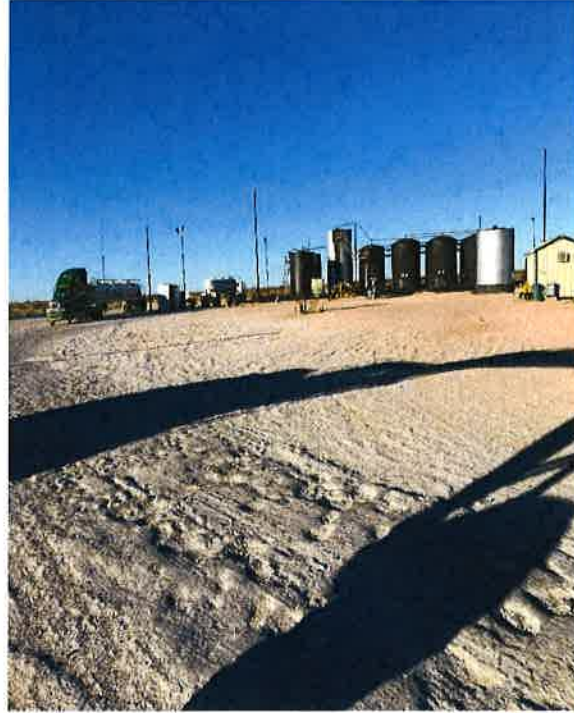
Casing Perforations:	Top	Bottom
	170	190

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1/28/19 9:56 AM

POINT OF DIVERSION SUMMARY

**BASIN ALLIANCE
STATE AJ #1
BEFORE PHOTOS**



**BASIN ALLIANCE
STATE AJ #1
DURING PHOTOS**



**BASIN ALLIANCE
STATE AJ #1
DURING PHOTOS**



**BASIN ALLIANCE
STATE AJ #1
DURING PHOTOS**



**BASIN ALLIANCE
STATE AJ #1
DURING PHOTOS**



**BASIN ALLIANCE
STATE AJ #1
DURING PHOTOS**



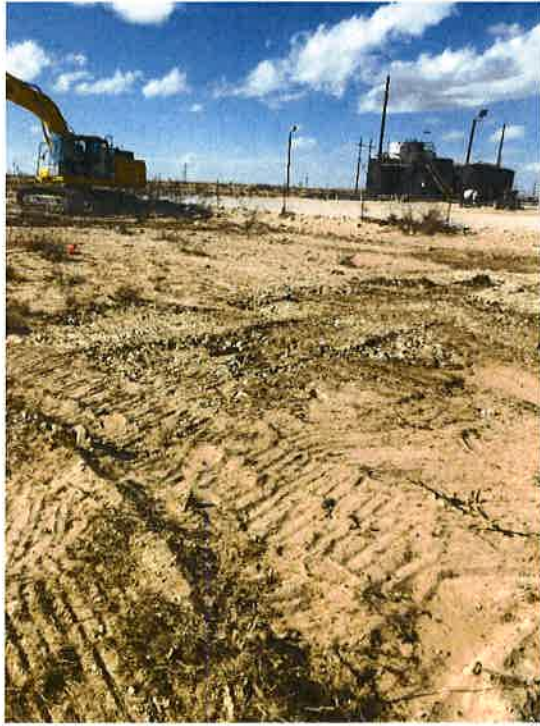
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STATE AJ #1
DURING PHOTOS**



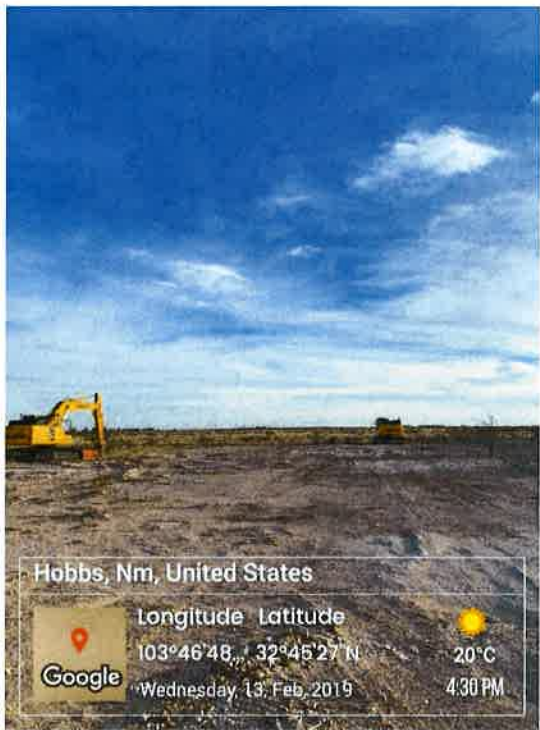
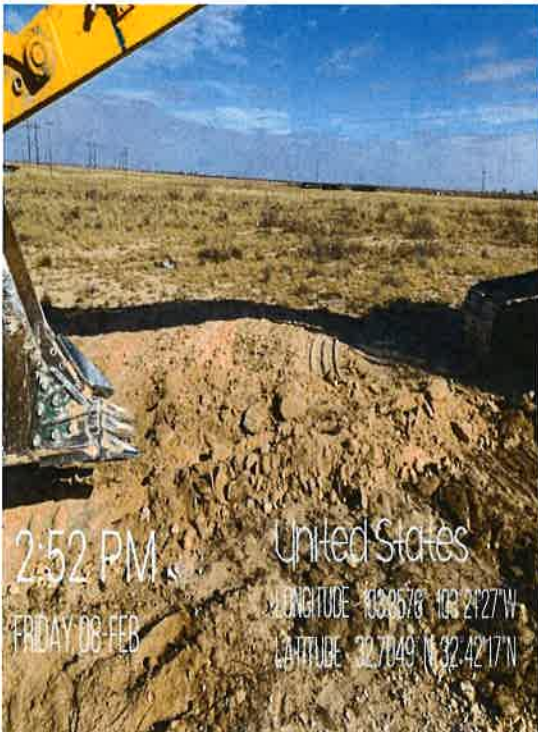
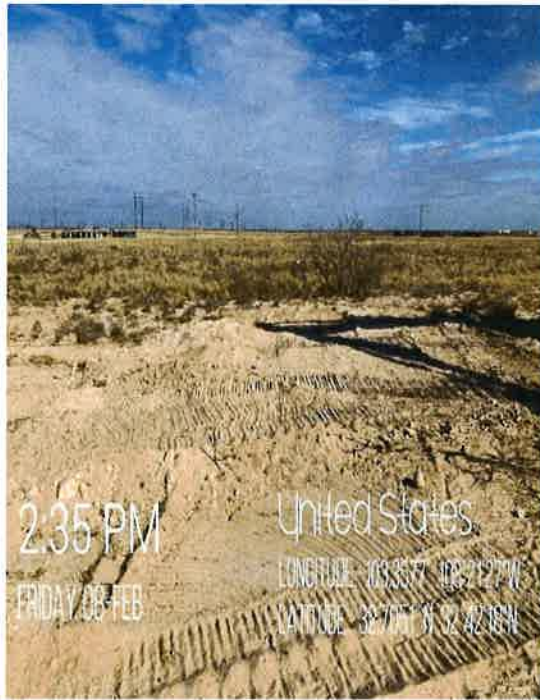
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STATE AJ #1
DURING PHOTOS**



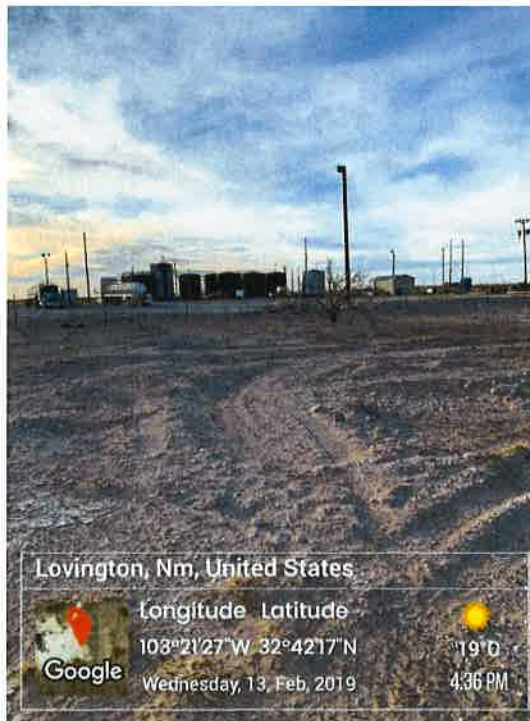
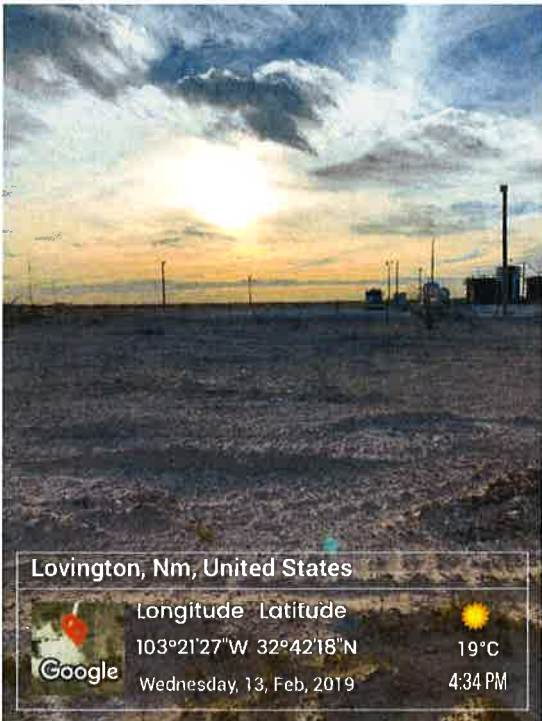
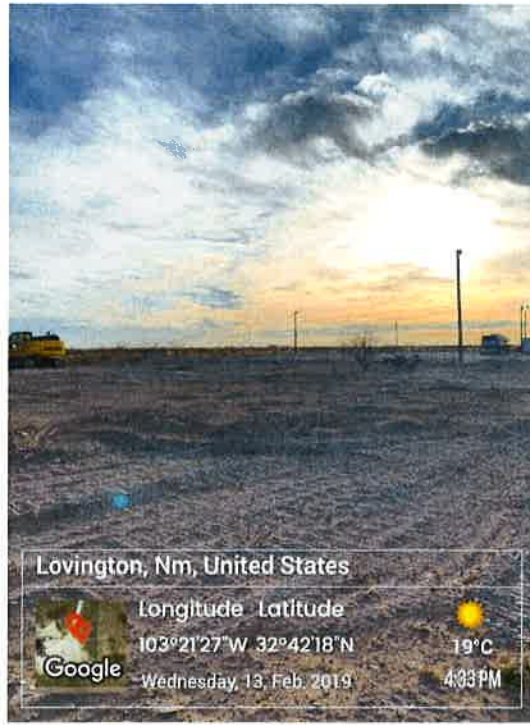
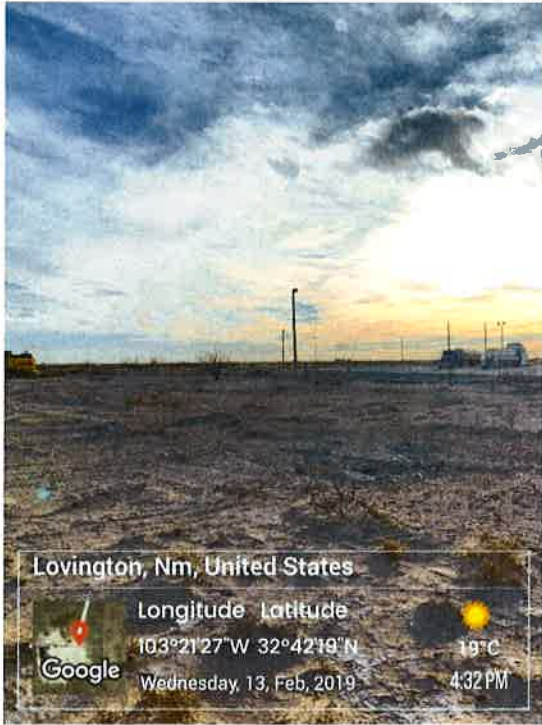
**BASIN ALLIANCE
STATE AJ #1
DURING PHOTOS**



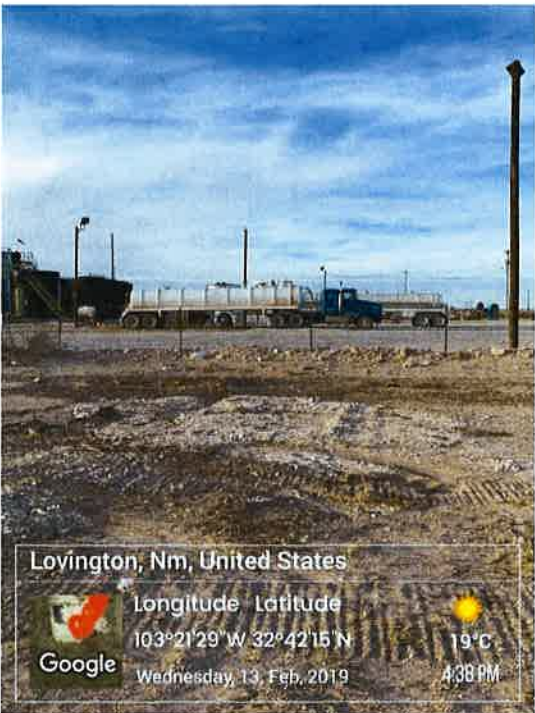
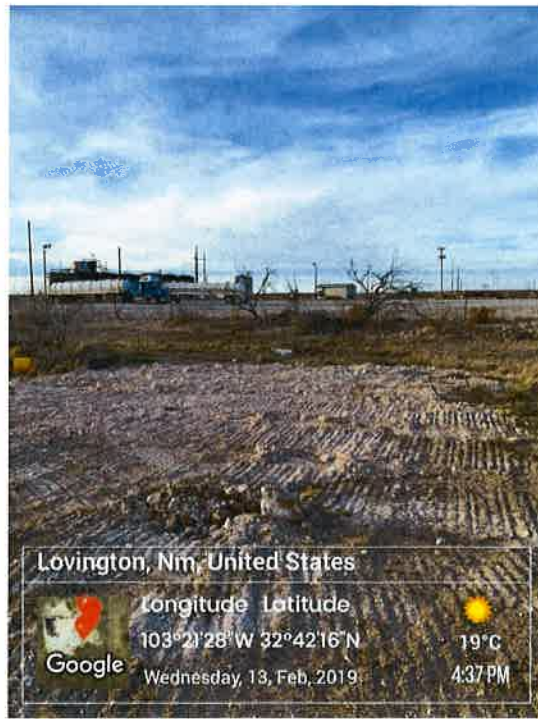
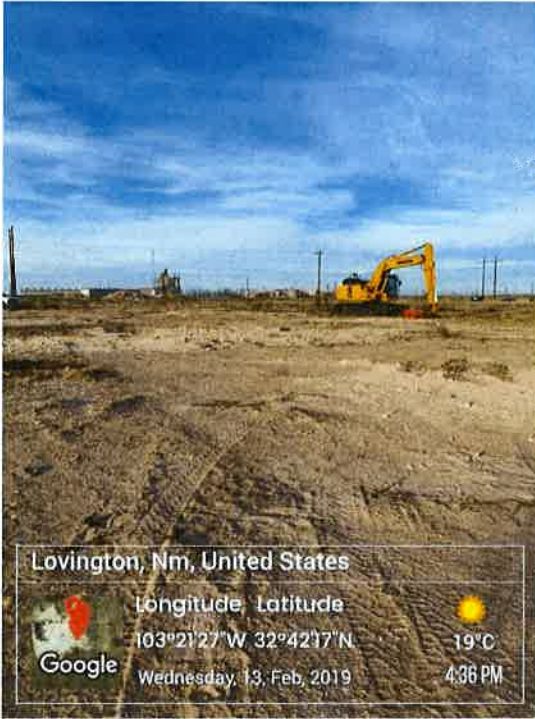
**BASIN ALLIANCE
STATE AJ #1
AFTER PHOTOS**

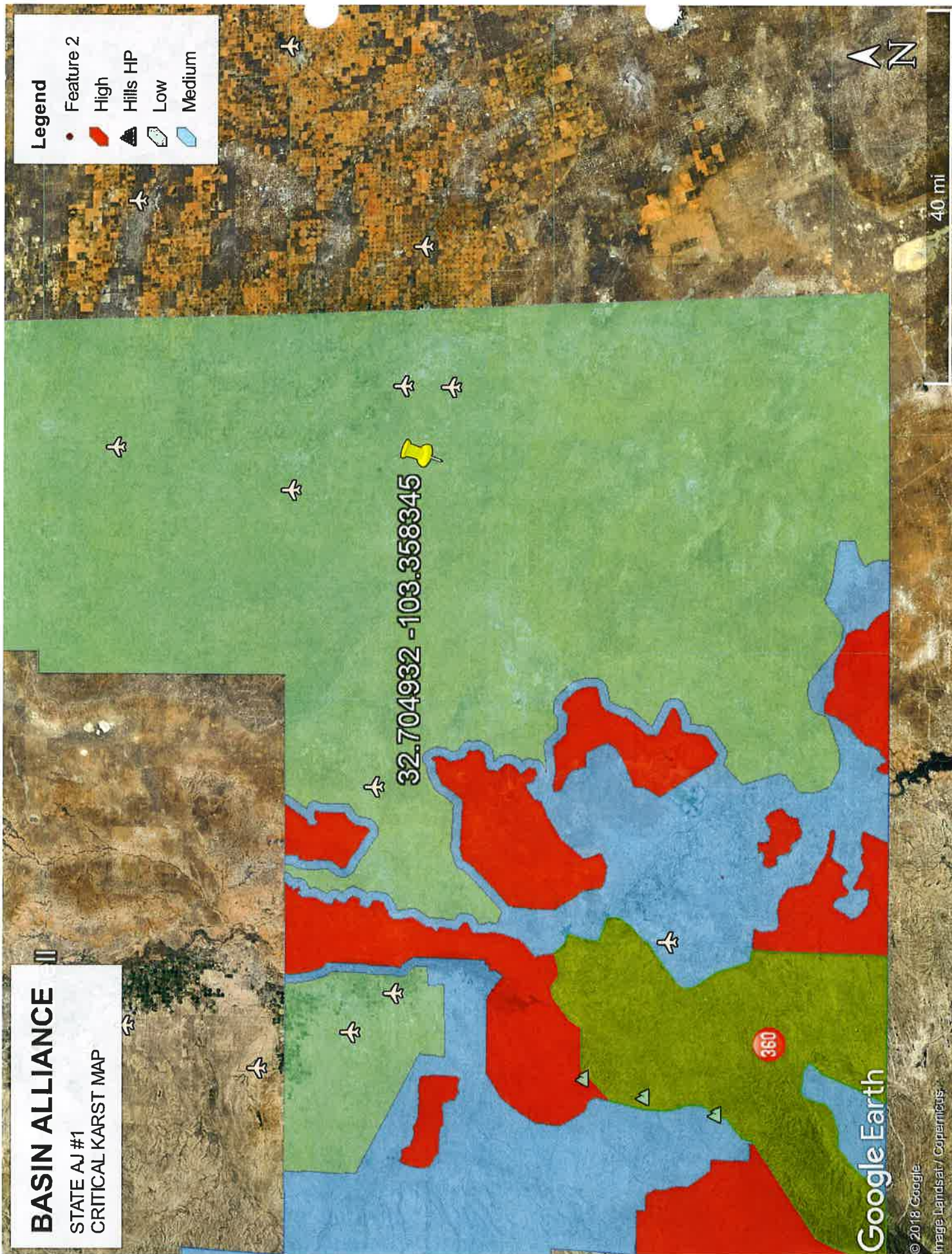


**BASIN ALLIANCE
STATE AJ #1
AFTER PHOTOS**



**BASIN ALLIANCE
STATE AJ #1
AFTER PHOTOS**





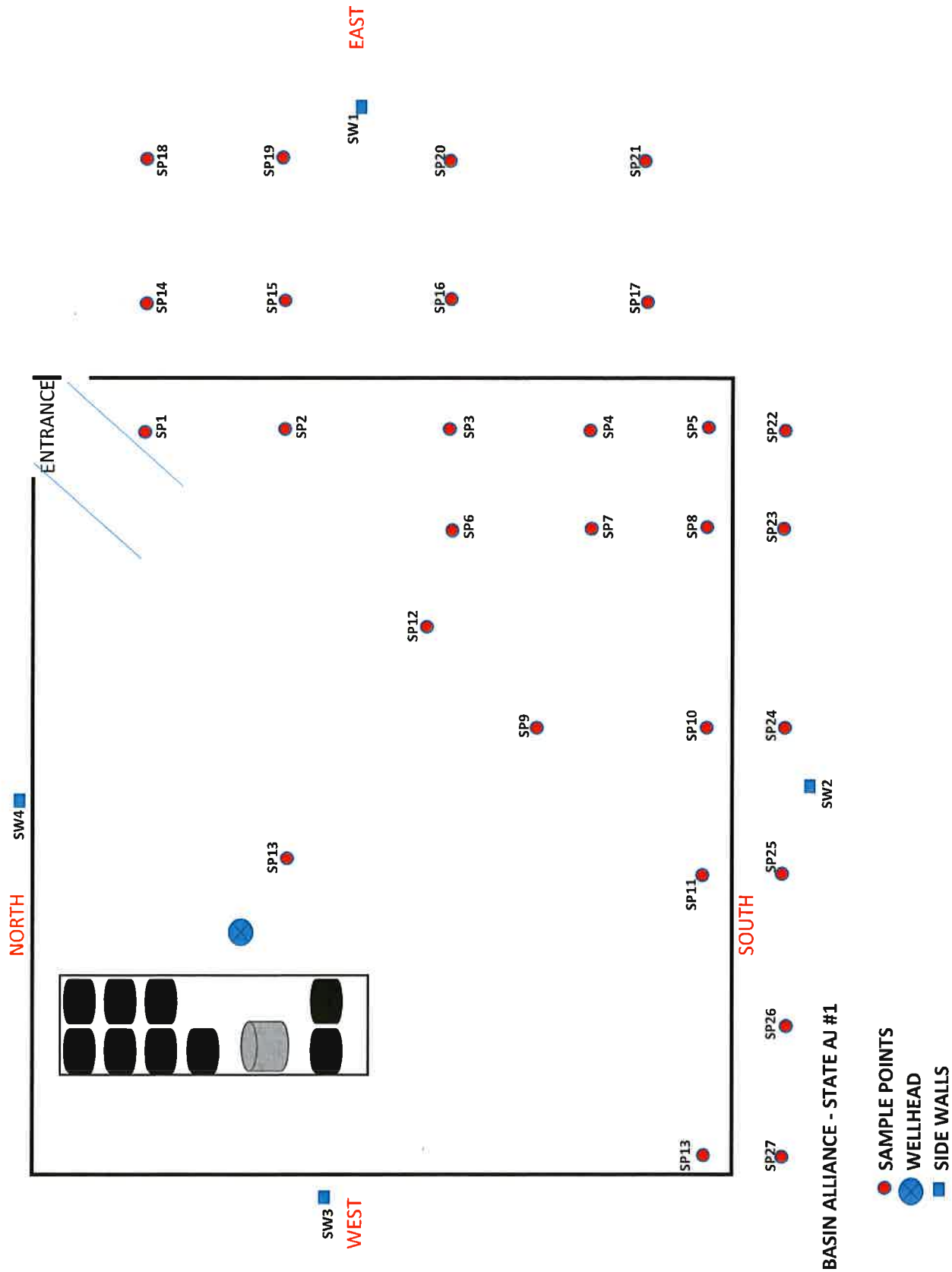
BASIN ALLIANCE - STATE AJ #1

Sample ID	Ft	Field Chl	Titration	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SP1	SUR	2240		0								
	2'	640		0								
	4'	400		0								
	6'	640		0								
	8'	480		0								
LAB 1/30/1	10'	480	480	0	160	<0.300	<10	<10	<10	<10	CAL	
SP2	SUR	6960		0								
	2'	320		0								
	4'	560		0								
	6'	720		0								
	8'	560		0								
	10'	720		0								
	12'	720		0								
	14'	560		0								
LAB 1/30/1	16'	480	480	0	192	<0.300	<10	<10	<10	<10	CAL	
SP3	SUR	1760		0								
	2'	400		0								
LAB 1/28/1	4'	240	400	0	128	<0.300	<10	<10	<10	<10	CAL	
SP4	SUR	9200		0								
	2'	1200		0								
	4'	240		0								
	6'	480		0								
LAB 1/30/1	8'	480	400	0	208	<0.300	<10	<10	<10	<10	CAL	
SP5	SUR	1840		0								
	2'	800		0								
	4'	240		0								
	6'	560		0								
LAB 1/30/1	8'	480	480	0	144	<0.300	<10	<10	<10	<10	CAL	
SP6	SUR	3200		0								
	2'	1680		0								
	4'	960		0								
	6'	1200		0								

LAB 1/30/19	4'	480	800	0	576	<0.300	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	CAL
SP11	SUR	480		0													
	2'	160		0													
LAB 1/30/19	4'	160	800	0	96	<0.300	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	CAL
SP12	SUR	8000		0													
	2'	400		0													
LAB 2/1/19	4'	400	400	0	512	<0.300	<10	12.1	<10	<10	<10	<10	<10	<10	<10	<10	CAL
SP13	SUR	6400		0													
	2'	480		0													
LAB 2/1/19	4'	480	800	0	560	<0.300	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	CAL
SP14	SUR	1440		0													
	2'	880		0													
	4'	880		0													
	6'	400		0													
LAB 2/4/19	8'	320	400	0	272	<0.300	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	CAL
SP15	SUR	8400		0													
	2'	4000		0													
	4'	1360		0													
	6'	1200		0													
	8'	800		0													
	10'	240		0													
LAB 2/4/19	12'	160	240	0	64	<0.300	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	CAL
SP16	SUR	2080		0													
	2'	1440		0													
	4'	1280		0													
	6'	1040		0													
	8'	1200		0													
	10'	1120		0													
	12'	880		0													
	14'	320		0													
	16'	480		0													
	18'	480		0													
LAB 2/5/19	20'	320	160	0	64	<0.300	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	CAL
SP17	SUR	2240		0													

BASIN ALLIANCE - STATE AJ #1

Sample ID	Ft	Field Chl	Titration	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SP18	SUR	1600		0								
	2'	1520		0								
	4'	800		0								
	6'	560		0								
LAB 2/8/19	8'	400	400	0	48	<0.300	<10	<10	<10	<10	CAL	
SP19	SUR	4000		0								
	2'	1920		0								
	4'	960		0								
	6'	1280		0								
	8'	1120		0								
	10'	640		0								
	12'	800		0								
	14'	720		0								
	16'	560		0								
LAB 2/11/18	18'	480	560	0	416	<0.300	<10	27.8	13.2	41	CAL	
SP20	SUR	1200		0								
	2'	800		0								
	4'	1120		0								
	6'	960		0								
	8'	640		0								
	10'	560		0								
LAB 2/11/12	12'	400	400	0	144	<0.300	<10	<10	<10	<10	CAL	
SP21	SUR	1280		0								
	2'	800		0								
	4'	960		0								
	6'	800		0								
	8'	720		0								
	10'	640		0								
	12'	560		0								
LAB 2/12/14	14'	320	560	0	208	<0.300	<10	<10	<10	<10	CAL	
SP22	SUR	400		0								
	2'	960		0								





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 30, 2019

ROBERT LAYTON
WHITE BUFFALO
8908 YALE AVE #210
TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 01/29/19 12:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" and "K".

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	01/29/2019	Sampling Date:	01/28/2019
Reported:	01/30/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 - 4' (H900309-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2019	ND	1.94	96.9	2.00	1.04	
Toluene*	<0.050	0.050	01/30/2019	ND	2.00	99.9	2.00	0.468	
Ethylbenzene*	<0.050	0.050	01/30/2019	ND	2.00	100	2.00	0.445	
Total Xylenes*	<0.150	0.150	01/30/2019	ND	6.10	102	6.00	0.949	
Total BTEX	<0.300	0.300	01/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/30/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2019	ND	212	106	200	3.80	
DRO >C10-C28*	<10.0	10.0	01/30/2019	ND	220	110	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	01/30/2019	ND					

Surrogate: 1-Chlorooctane 80.0 % 41-142

Surrogate: 1-Chlorooctadecane 80.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 06, 2019

ROBERT LAYTON
WHITE BUFFALO
8908 YALE AVE #210
TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" and "K".

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	01/30/2019	Sampling Date:	01/28/2019
Reported:	02/06/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 1 - 10' (H900332-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.36	118	2.00	0.804	
Toluene*	<0.050	0.050	01/31/2019	ND	2.24	112	2.00	0.837	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.73	112	6.00	1.10	
Total BTEX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/01/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	171	85.3	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	177	88.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 97.4 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	01/30/2019	Sampling Date:	01/28/2019
Reported:	02/06/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 2 - 16' (H900332-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2019	ND	2.17	108	2.00	0.766	
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33	
Total BTEX	<0.300	0.300	02/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/01/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	171	85.3	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	177	88.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 98.0 % 41-142

Surrogate: 1-Chlorooctadecane 92.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	01/30/2019	Sampling Date:	01/28/2019
Reported:	02/06/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 4 - 8' (H900332-03)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2019	ND	2.17	108	2.00	0.766		
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165		
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83		
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33		
Total BTEX	<0.300	0.300	02/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PII) 98.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/01/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	171	85.3	200	1.48		
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	177	88.5	200	1.49		
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND						

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 88.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	01/30/2019	Sampling Date:	01/28/2019
Reported:	02/06/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 5 - 8' (H900332-04)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2019	ND	2.17	108	2.00	0.766		
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165		
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83		
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33		
Total BTEX	<0.300	0.300	02/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/01/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	171	85.3	200	1.48		
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	177	88.5	200	1.49		
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND						

Surrogate: 1-Chlorooctane 97.1 % 41-142

Surrogate: 1-Chlorooctadecane 92.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	01/30/2019	Sampling Date:	01/28/2019
Reported:	02/06/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 6 - 16' (H900332-05)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2019	ND	2.17	108	2.00	0.766		
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165		
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83		
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33		
Total BTEX	<0.300	0.300	02/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PII) 99.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/01/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	171	85.3	200	1.48		
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	177	88.5	200	1.49		
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND						

Surrogate: 1-Chlorooctane 94.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	01/30/2019	Sampling Date:	01/28/2019
Reported:	02/06/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 7 - 18' (H900332-06)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2019	ND	2.17	108	2.00	0.766		
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165		
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83		
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33		
Total BTEX	<0.300	0.300	02/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/01/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	171	85.3	200	1.48		
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	177	88.5	200	1.49		
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND						

Surrogate: 1-Chlorooctane 91.7 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	01/30/2019	Sampling Date:	01/28/2019
Reported:	02/06/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 8 - 14' (H900332-07)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2019	ND	2.17	108	2.00	0.766	
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33	
Total BTEX	<0.300	0.300	02/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/01/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	171	85.3	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	177	88.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 93.7 % 41-142

Surrogate: 1-Chlorooctadecane 90.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 01/30/2019
 Reported: 02/06/2019
 Project Name: STATE AJ #1
 Project Number: NONE GIVEN
 Project Location: BASIN ALLIANCE

Sampling Date: 01/28/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 9 - 16' (H900332-08)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2019	ND	2.17	108	2.00	0.766	
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33	
Total BTEX	<0.300	0.300	02/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/01/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 92.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	01/30/2019	Sampling Date:	01/28/2019
Reported:	02/06/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 10 - 4' (H900332-09)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2019	ND	2.17	108	2.00	0.766	
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33	
Total BTEX	<0.300	0.300	02/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 99.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/01/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 94.1 % 41-142

Surrogate: 1-Chlorooctadecane 91.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	01/30/2019	Sampling Date:	01/28/2019
Reported:	02/06/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 11 - 4' (H900332-10)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2019	ND	2.19	110	2.00	1.83		
Toluene*	<0.050	0.050	02/01/2019	ND	2.10	105	2.00	2.97		
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	3.15		
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.99	99.8	6.00	0.740		
Total BTEX	<0.300	0.300	02/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/01/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85		
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42		
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND						

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 86.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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



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February 04, 2019

ROBERT LAYTON
WHITE BUFFALO
8908 YALE AVE #210
TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/01/19 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent 'C' at the beginning.

Celey D. Keene
Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/01/2019	Sampling Date:	01/30/2019
Reported:	02/04/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 12 - 4' (H900377-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2019	ND	2.20	110	2.00	1.59	
Toluene*	<0.050	0.050	02/03/2019	ND	2.08	104	2.00	1.66	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.03	101	2.00	1.08	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.31	105	6.00	0.689	
Total BTEX	<0.300	0.300	02/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	02/04/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2019	ND	176	88.0	200	1.97	
DRO >C10-C28*	12.1	10.0	02/03/2019	ND	186	93.1	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	02/03/2019	ND					

Surrogate: 1-Chlorooctane 86.8 % 41-142

Surrogate: 1-Chlorooctadecane 82.5 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/01/2019	Sampling Date:	01/30/2019
Reported:	02/04/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 13 - 4' (H900377-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2019	ND	2.20	110	2.00	1.59	
Toluene*	<0.050	0.050	02/03/2019	ND	2.08	104	2.00	1.66	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.03	101	2.00	1.08	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.31	105	6.00	0.689	
Total BTEX	<0.300	0.300	02/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/04/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2019	ND	176	88.0	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/03/2019	ND	186	93.1	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	02/03/2019	ND					

Surrogate: 1-Chlorooctane 89.9 % 41-142

Surrogate: 1-Chlorooctadecane 84.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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

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Celey D. Keene, Lab Director/Quality Manager

* RUSH



* RUSH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

ANALYSIS REQUEST

5 of 5 page

Company Name: Bawn Alliance P.O. #: BI910

Project Manager: Robert Dayton Address: Box 1378 State: NM Zip: 88240

City: Hobbs State: NM Zip: 88240 Company: White Buffalo

Phone #: _____ Fax #: _____ Address: Steve McFarlin

Project #: _____ Project Owner: _____ City: Tulsa

Project Location: State AT #1 State: OK Zip: 74137

Sampler Name: Kathryn Montanez Phone #: 918-660-0999 Fax #: _____

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<u>H900377</u>	<u>130B-4</u>	<u>G1</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>1-30-19</u>	<u>9:05</u>	<u>Chlorides</u>
	<u>230B-4</u>	<u>G1</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>1-30-19</u>	<u>11:25</u>	<u>BTEX</u>
												<u>TPH</u>

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Relinquished By: Kathryn Montanez Date: 2-1-19 Received By: Jessica Valdez

Relinquished By: _____ Date: _____ Received By: _____

Delivered By: (Circle One) UPS - Bus - Other: 16.86 \$ 497

Sample Condition: Cool Intact Pres Yes No Yes No

CHECKED BY: _____ (Initials) VB

REMARKS: Email: Natalie, Gladden @ white buffalo.com
Monique, Cust @ white buffalo.com

* Cardinal cannot accept verbal changes. Please fax written changes to 575.393.2326



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 05, 2019

ROBERT LAYTON
WHITE BUFFALO
8908 YALE AVE #210
TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/04/19 16:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, prominent "C" and "K".

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/04/2019	Sampling Date:	02/01/2019
Reported:	02/05/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 14 - 8' (H900392-01)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/05/2019	ND	2.17	109	2.00	1.97		
Toluene*	<0.050	0.050	02/05/2019	ND	2.06	103	2.00	0.641		
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	2.00	100	2.00	0.904		
Total Xylenes*	<0.150	0.150	02/05/2019	ND	6.23	104	6.00	1.21		
Total BTEX	<0.300	0.300	02/05/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/05/2019	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	204	102	200	5.63		
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	202	101	200	4.89		
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND						

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 02/04/2019
 Reported: 02/05/2019
 Project Name: STATE AJ #1
 Project Number: NONE GIVEN
 Project Location: BASIN ALLIANCE

Sampling Date: 02/01/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 15 - 12' (H900392-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	2.17	109	2.00	1.97	
Toluene*	<0.050	0.050	02/05/2019	ND	2.06	103	2.00	0.641	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	2.00	100	2.00	0.904	
Total Xylenes*	<0.150	0.150	02/05/2019	ND	6.23	104	6.00	1.21	
Total BTEX	<0.300	0.300	02/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/05/2019	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	204	102	200	5.63	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 99.4 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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

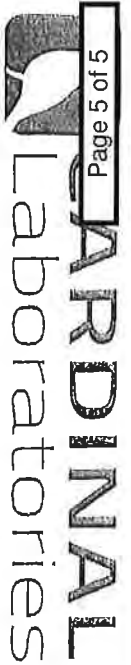
Cardinal Laboratories

*=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 and 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 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 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

Celey D. Keene, Lab Director/Quality Manager



* RUSH *

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: **Basin Alliance**
 Project Manager: **Robert Gayton**

P.O. #:

Address: **Box 1378**
 City: **Hobbs** State: **NM** zip: **88240**

Company: **White Buffalo**
 Attn: **Steve McFarlin**

Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____

Address: **8908 Yale Ave #210**
 City: **Julia**
 State: **OK** zip: **74137**

Project Location: **State AS #1**

Phone #: **918-660-0999**

Sampler Name: **Monique Cueto**

Fax #:

FOR LAB USE ONLY

(G)RAB OR (C)OMP.	
# CONTAINERS	
GROUNDWATER	
WASTEWATER	
SOIL	
OIL	
SLUDGE	
OTHER:	
ACID/BASE:	
ICE / COOL	
OTHER:	

Lab I.D.	Sample I.D.	DATE	TIME	ANALYSIS
H900352	1 SPH-8'	2/19	9:46	Chlorides
	2 SPIS-12'	2/19	11:09	BTEX
				TPH

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Reinquisitioned By: _____ Date: **2/19/19** Received By: _____

Reinquisitioned By: **Monique Cueto** Time: **4:17**

Received By: **Monique Cueto**

Delivered By: (Circle One) _____

Sampler - UPS - Bus - Other: **-D.6c #47**

Sample Condition
 Cool Intact
 Yes No

REMARKS: **Email: natalie.gladson@whitebuffalo.com**
Monique Cueto@whitebuffalo.com

* Cardinal cannot warrant against change. Please for written changes to 15751 202.2326

RUSH



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 06, 2019

ROBERT LAYTON
WHITE BUFFALO
8908 YALE AVE #210
TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/05/19 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/05/2019	Sampling Date:	02/04/2019
Reported:	02/06/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 16 - 20' (H900433-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2019	ND	2.15	107	2.00	0.799	
Toluene*	<0.050	0.050	02/06/2019	ND	2.02	101	2.00	2.43	
Ethylbenzene*	<0.050	0.050	02/06/2019	ND	1.99	99.3	2.00	2.93	
Total Xylenes*	<0.150	0.150	02/06/2019	ND	6.11	102	6.00	2.51	
Total BTEX	<0.300	0.300	02/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2019	ND	212	106	200	2.36	
DRO >C10-C28*	<10.0	10.0	02/06/2019	ND	206	103	200	8.01	
EXT DRO >C28-C36	<10.0	10.0	02/06/2019	ND					

Surrogate: 1-Chlorooctane 97.7 % 41-142

Surrogate: 1-Chlorooctadecane 97.3 % 37.6-147

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 and 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 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 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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 02/05/2019
 Reported: 02/06/2019
 Project Name: STATE AJ #1
 Project Number: NONE GIVEN
 Project Location: BASIN ALLIANCE

Sampling Date: 02/04/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 17 - 16' (H900433-02)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/06/2019	ND	2.15	107	2.00	0.799		
Toluene*	<0.050	0.050	02/06/2019	ND	2.02	101	2.00	2.43		
Ethylbenzene*	<0.050	0.050	02/06/2019	ND	1.99	99.3	2.00	2.93		
Total Xylenes*	<0.150	0.150	02/06/2019	ND	6.11	102	6.00	2.51		
Total BTEX	<0.300	0.300	02/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/06/2019	ND	212	106	200	2.36		
DRO >C10-C28*	<10.0	10.0	02/06/2019	ND	206	103	200	8.01		
EXT DRO >C28-C36	<10.0	10.0	02/06/2019	ND						

Surrogate: 1-Chlorooctane 95.6 % 41-142

Surrogate: 1-Chlorooctadecane 96.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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

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Celey D. Keene, Lab Director/Quality Manager



* RUSN

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILETO

ANALYSIS REQUEST

Company Name: Boain Oliveira		P.O. #:	
Project Manager: Robert Dayton		Company: White Buffalo	
Address: Box 1378		Attn: Steve McFarlin	
City: Hobbs		Address: 8908 Yale Ave #210	
State: NH Zip: 88240		City: Julia	
Phone #:		State: OK Zip: 74137	
Project #:		Phone #: 918-660-0999	
Project Name:		Fax #:	
Project Location: State AS #1		Project Owner:	
Sampler Name: Katlyn Montanoz		FOR LAB USE ONLY	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS
H900433	1 SP 16-80	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	2 SP 16-16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		GROUNDWATER	WASTEWATER
		SOIL	OIL
		SLUDGE	OTHER:
		ACID/BASE:	ICE / COOL
		OTHER:	DATE
			TIME
			2-4-19 2:28
			2-4-19 10:40
			Chlorides
			BTEX
			TPH

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Relinquished By: **William Montanoz** Date: **2-5-19** Time: **14:55** Received By: **Juliana Olabeyre**

Relinquished By: **William Montanoz** Date: **2-5-19** Time: **14:55** Received By: **Juliana Olabeyre**

Delivered By: (Circle One) **UPS - Bus - Other: -14.6°C #49**

Sample Condition: Cool Intact Yes No Yes No

CHECKED BY: **JD**

REMARKS: **Email: Natalie, Gladden @ white buffalo.com**
Monique, Cueto @ white buffalo.com

1 2 3 4 5 6



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 08, 2019

ROBERT LAYTON
WHITE BUFFALO
8908 YALE AVE #210
TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/06/19 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/06/2019	Sampling Date:	02/05/2019
Reported:	02/08/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BASIN ALLIANCE		

Sample ID: SP 22 - 12' (H900471-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2019	ND	2.19	109	2.00	1.55	
Toluene*	<0.050	0.050	02/08/2019	ND	2.22	111	2.00	0.771	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.21	110	2.00	1.42	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.27	104	6.00	1.53	
Total BTEX	<0.300	0.300	02/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 93.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/07/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2019	ND	198	99.0	200	1.03	
DRO >C10-C28*	<10.0	10.0	02/07/2019	ND	213	106	200	0.701	
EXT DRO >C28-C36	<10.0	10.0	02/07/2019	ND					

Surrogate: 1-Chlorooctane 91.4 % 41-142

Surrogate: 1-Chlorooctadecane 95.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/06/2019	Sampling Date:	02/05/2019
Reported:	02/08/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BASIN ALLIANCE		

Sample ID: SP 23 - 12' (H900471-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2019	ND	2.19	109	2.00	1.55		
Toluene*	<0.050	0.050	02/08/2019	ND	2.22	111	2.00	0.771		
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.21	110	2.00	1.42		
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.27	104	6.00	1.53		
Total BTEX	<0.300	0.300	02/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/07/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/07/2019	ND	198	99.0	200	1.03		
DRO >C10-C28*	<10.0	10.0	02/07/2019	ND	213	106	200	0.701		
EXT DRO >C28-C36	<10.0	10.0	02/07/2019	ND						

Surrogate: 1-Chlorooctane 91.6 % 41-142

Surrogate: 1-Chlorooctadecane 94.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 08, 2019

ROBERT LAYTON
WHITE BUFFALO
8908 YALE AVE #210
TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/07/19 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Coley D. Keene".

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/07/2019	Sampling Date:	02/06/2019
Reported:	02/08/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 24 - 10' (H900485-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2019	ND	2.19	109	2.00	1.55	
Toluene*	<0.050	0.050	02/08/2019	ND	2.22	111	2.00	0.771	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.21	110	2.00	1.42	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.27	104	6.00	1.53	
Total BTEX	<0.300	0.300	02/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 96.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/08/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2019	ND	189	94.7	200	2.71	
DRO >C10-C28*	<10.0	10.0	02/07/2019	ND	182	90.9	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	02/07/2019	ND					

Surrogate: 1-Chlorooctane 96.0 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/07/2019	Sampling Date:	02/06/2019
Reported:	02/08/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 25 - 8' (H900485-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2019	ND	2.19	109	2.00	1.55		
Toluene*	<0.050	0.050	02/08/2019	ND	2.22	111	2.00	0.771		
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.21	110	2.00	1.42		
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.27	104	6.00	1.53		
Total BTEX	<0.300	0.300	02/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PII) 97.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/08/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/07/2019	ND	189	94.7	200	2.71		
DRO >C10-C28*	<10.0	10.0	02/07/2019	ND	182	90.9	200	11.3		
EXT DRO >C28-C36	<10.0	10.0	02/07/2019	ND						

Surrogate: 1-Chlorooctane 92.4 % 41-142

Surrogate: 1-Chlorooctadecane 99.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/07/2019	Sampling Date:	02/06/2019
Reported:	02/08/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 26 - 10' (H900485-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2019	ND	2.19	109	2.00	1.55		
Toluene*	<0.050	0.050	02/08/2019	ND	2.22	111	2.00	0.771		
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.21	110	2.00	1.42		
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.27	104	6.00	1.53		
Total BTEX	<0.300	0.300	02/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/08/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/07/2019	ND	189	94.7	200	2.71		
DRO >C10-C28*	<10.0	10.0	02/07/2019	ND	182	90.9	200	11.3		
EXT DRO >C28-C36	<10.0	10.0	02/07/2019	ND						

Surrogate: 1-Chlorooctane 95.5 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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



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February 11, 2019

ROBERT LAYTON
WHITE BUFFALO
8908 YALE AVE #210
TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/08/19 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/08/2019	Sampling Date:	02/07/2019
Reported:	02/11/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BASIN ALLIANCE		

Sample ID: SP 18 - 8 (H900513-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2019	ND	1.98	99.0	2.00	0.306	
Toluene*	<0.050	0.050	02/09/2019	ND	2.04	102	2.00	0.484	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	1.97	98.6	2.00	1.08	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.73	95.5	6.00	1.39	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/11/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2019	ND	203	102	200	0.793	
DRO >C10-C28*	<10.0	10.0	02/10/2019	ND	223	111	200	9.53	
EXT DRO >C28-C36	<10.0	10.0	02/10/2019	ND					

Surrogate: 1-Chlorooctane 78.2 % 41-142

Surrogate: 1-Chlorooctadecane 83.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/08/2019	Sampling Date:	02/07/2019
Reported:	02/11/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BASIN ALLIANCE		

Sample ID: SP 27 - 12 (H900513-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2019	ND	1.98	99.0	2.00	0.306		
Toluene*	<0.050	0.050	02/09/2019	ND	2.04	102	2.00	0.484		
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	1.97	98.6	2.00	1.08		
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.73	95.5	6.00	1.39		
Total BTEX	<0.300	0.300	02/09/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/11/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/10/2019	ND	203	102	200	0.793		
DRO >C10-C28*	<10.0	10.0	02/10/2019	ND	223	111	200	9.53		
EXT DRO >C28-C36	<10.0	10.0	02/10/2019	ND						

Surrogate: 1-Chlorooctane 77.9 % 41-142

Surrogate: 1-Chlorooctadecane 82.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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

Celey D. Keene, Lab Director/Quality Manager



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February 12, 2019

ROBERT LAYTON

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/11/19 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/11/2019	Sampling Date:	02/08/2019
Reported:	02/12/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 19 - 18' (H900526-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	1.97	98.7	2.00	7.12	
Toluene*	<0.050	0.050	02/11/2019	ND	1.99	99.5	2.00	4.77	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	1.95	97.4	2.00	4.35	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	5.78	96.3	6.00	6.81	
Total BTEX	<0.300	0.300	02/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 96.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	02/12/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	199	99.5	200	0.247	
DRO >C10-C28*	27.8	10.0	02/11/2019	ND	182	90.8	200	8.09	
EXT DRO >C28-C36	13.2	10.0	02/11/2019	ND					

Surrogate: 1-Chlorooctane 93.3 % 41-142

Surrogate: 1-Chlorooctadecane 96.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/11/2019	Sampling Date:	02/08/2019
Reported:	02/12/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 20 - 12' (H900526-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2019	ND	1.97	98.7	2.00	7.12		
Toluene*	<0.050	0.050	02/11/2019	ND	1.99	99.5	2.00	4.77		
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	1.95	97.4	2.00	4.35		
Total Xylenes*	<0.150	0.150	02/11/2019	ND	5.78	96.3	6.00	6.81		
Total BTEX	<0.300	0.300	02/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 93.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/12/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	199	99.5	200	0.247		
DRO >C10-C28*	<10.0	10.0	02/11/2019	ND	182	90.8	200	8.09		
EXT DRO >C28-C36	<10.0	10.0	02/11/2019	ND						

Surrogate: 1-Chlorooctane 93.6 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- 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

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Celey D. Keene, Lab Director/Quality Manager



* RUSH *

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

ANALYSIS REQUEST

BIE-TO

Company Name: 3 Rain Alliance		P.O. #:							
Project Manager: Robert Dayton		Company: White Buffalo							
Address: P.O. Box 1378		Attn:							
City: Hobbs		Address: 401 E Broadway							
State: NH Zip: 88240		City: Hobbs							
Phone #:		State: NH Zip: 88240							
Project #:		Phone #: 575-738-0428							
Project Name:		Fax #: 575-738-0430							
Project Location: State AS #1									
Sampler Name: Katlynn Martonez									
FOR LAB USE ONLY									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	DATE	TIME	Chlorides	BTEX	TPH		
		# CONTAINERS							
H9005A	1 SP19-18'	GROUNDWATER	G 1	2-8-11 1:33	-	-	-		
		WASTEWATER	G 1	2-8-19 2:50	-	-	-		
		SOIL							
		OIL							
		SLUDGE							
		OTHER:							
		ACID/BASE:							
		ICE / COOL							
		OTHER:							

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 analysis. 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 profit incurred by client, its subsidiaries, affiliates or successors and/or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise.

Relinquished By: **Katlynn Martonez** Date: **2-11-19** Received By: **Jamara Clarke**

Relinquished By: **Katlynn Martonez** Date: **12:05** Received By: **Jamara Clarke**

Delivered By: (Circle One) UPS - Bus - Other: **-13.9c #97**

Sample Condition: Cool Intact

CHECKED BY: **JA** (Initials)

REMARKS: **Ymasi: Natalie. Gadsden @ whitebuffalo.com**

Ymasi: Cuetto @ whitebuffalo.com

* Cardinal cannot accept verbal changes. Please for written changes to (575) 393-2326

* RUSH *



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 13, 2019

ROBERT LAYTON

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/12/19 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/12/2019	Sampling Date:	02/11/2019
Reported:	02/13/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SP 21 - 14' (H900549-01)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2019	ND	2.24	112	2.00	1.67		
Toluene*	<0.050	0.050	02/12/2019	ND	2.15	108	2.00	3.96		
Ethylbenzene*	<0.050	0.050	02/12/2019	ND	2.09	105	2.00	1.77		
Total Xylenes*	<0.150	0.150	02/12/2019	ND	6.25	104	6.00	1.61		
Total BTEX	<0.300	0.300	02/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 97.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/13/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/12/2019	ND	194	96.9	200	3.55		
DRO >C10-C28*	<10.0	10.0	02/12/2019	ND	163	81.7	200	10.7		
EXT DRO >C28-C36	<10.0	10.0	02/12/2019	ND						

Surrogate: 1-Chlorooctane 88.6 % 41-142

Surrogate: 1-Chlorooctadecane 90.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/12/2019	Sampling Date:	02/11/2019
Reported:	02/13/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SW 1 -4' (H900549-02)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2019	ND	2.24	112	2.00	1.67		
Toluene*	<0.050	0.050	02/13/2019	ND	2.15	108	2.00	3.96		
Ethylbenzene*	<0.050	0.050	02/13/2019	ND	2.09	105	2.00	1.77		
Total Xylenes*	<0.150	0.150	02/13/2019	ND	6.25	104	6.00	1.61		
Total BTEX	<0.300	0.300	02/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 97.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/13/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/12/2019	ND	194	96.9	200	3.55		
DRO >C10-C28*	<10.0	10.0	02/12/2019	ND	163	81.7	200	10.7		
EXT DRO >C28-C36	<10.0	10.0	02/12/2019	ND						

Surrogate: 1-Chlorooctane 87.5 % 41-142

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



* RUSH *

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

5 of 5 Page

Company Name: Ysaura Odlonze P.O. #:

Project Manager: Robert Grayton Company: White Buffalo

Address: P.O. Box 1378 State: NH Zip: 88240 Attn:

City: Hobbs State: NH Zip: 88240 Address: 401 E Broadway

Phone #: Fax #: City: Hobbs

Project #: Project Owner: State: NH Zip: 88240

Project Name: Project Location: State AS #1 Phone #: 515 138-0428

Sampler Name: Katlynn Montanez Fax #: 515-138-0430

FOR USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
<u>H00549</u>	<u>SP01-14</u>	<u>G11</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>2-19</u>	<u>10:29</u>	<u>✓</u>	<u>Chlordes</u>
<u>Z</u>	<u>1 SW1-4</u>	<u>G11</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>2-19</u>	<u>1:29</u>	<u>✓</u>	<u>BTEX</u>
													<u>TPH</u>

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Requisitioned By: [Signature] Date: 2-2-19 Time: 15:40 Received By: [Signature]

Delivered By: (Circle One) UPS - Bus - Other: -1.12 #87 Sample Condition: Yes Intact: Yes Checked By: [Signature]

REMARKS: Small: Natalie. Gledson @ whitebuffalo.com
Merique. Cuetto @ whitebuffalo.com

* RUSH *



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 18, 2019

ROBERT LAYTON

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/15/19 12:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 02/15/2019
 Reported: 02/18/2019
 Project Name: STATE AJ #1
 Project Number: NONE GIVEN
 Project Location: BASIN ALLIANCE

Sampling Date: 02/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 2 -1' (H900615-01)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2019	ND	2.02	101	2.00	0.888		
Toluene*	<0.050	0.050	02/15/2019	ND	1.89	94.3	2.00	0.693		
Ethylbenzene*	<0.050	0.050	02/15/2019	ND	1.84	92.0	2.00	0.994		
Total Xylenes*	<0.150	0.150	02/15/2019	ND	5.59	93.2	6.00	1.18		
Total BTEX	<0.300	0.300	02/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 94.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/16/2019	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/15/2019	ND	162	81.2	200	4.49		
DRO >C10-C28*	<10.0	10.0	02/15/2019	ND	164	82.0	200	0.823	QR-03, QM-07	
EXT DRO >C28-C36	<10.0	10.0	02/15/2019	ND						

Surrogate: 1-Chlorooctane 84.8 % 41-142

Surrogate: 1-Chlorooctadecane 92.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/15/2019	Sampling Date:	02/13/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SW 3 -1' (H900615-02)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2019	ND	2.02	101	2.00	0.888		
Toluene*	<0.050	0.050	02/15/2019	ND	1.89	94.3	2.00	0.693		
Ethylbenzene*	<0.050	0.050	02/15/2019	ND	1.84	92.0	2.00	0.994		
Total Xylenes*	<0.150	0.150	02/15/2019	ND	5.59	93.2	6.00	1.18		
Total BTEX	<0.300	0.300	02/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 96.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/16/2019	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/15/2019	ND	162	81.2	200	4.49		
DRO >C10-C28*	<10.0	10.0	02/15/2019	ND	164	82.0	200	0.823		
EXT DRO >C28-C36	<10.0	10.0	02/15/2019	ND						

Surrogate: 1-Chlorooctane 81.7 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 ROBERT LAYTON
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received:	02/15/2019	Sampling Date:	02/13/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	STATE AJ #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BASIN ALLIANCE		

Sample ID: SW 4 -1' (H900615-03)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2019	ND	2.02	101	2.00	0.888		
Toluene*	<0.050	0.050	02/15/2019	ND	1.89	94.3	2.00	0.693		
Ethylbenzene*	<0.050	0.050	02/15/2019	ND	1.84	92.0	2.00	0.994		
Total Xylenes*	<0.150	0.150	02/15/2019	ND	5.59	93.2	6.00	1.18		
Total BTEX	<0.300	0.300	02/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 94.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/16/2019	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/15/2019	ND	162	81.2	200	4.49		
DRO >C10-C28*	<10.0	10.0	02/15/2019	ND	164	82.0	200	0.823		
EXT DRO >C28-C36	<10.0	10.0	02/15/2019	ND						

Surrogate: 1-Chlorooctane 90.1 % 41-142

Surrogate: 1-Chlorooctadecane 94.9 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: 35000 Odessa		P.O. #:		BIETTO		ANALYSIS REQUEST									
Project Manager: Robert Dayton		Company: White Buffalo													
Address: P.O. Box 1378		Attn:													
City: Hobbs		Address: 407 E Broadway													
State: NH Zip: 88240		City: Hobbs													
Phone #:		State: NH Zip: 88240													
Project #:		Phone #: 575-138-0428													
Project Name:		Fax #: 575-138-0430													
Project Location: State AS #1		PRESERV:													
Sampler Name: Katelyn Mordanz		SAMPLING													
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	MATRIX		DATE	TIME	Chlorides	BTEX	TPH						
		# CONTAINERS	GROUNDWATER	WASTEWATER						SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:
H900615	SW2-1'	G 1			2/18/19 11:58										
	SW3-1'	G 1			2/18/19 1:12										
	SW4-1'	G 1			2/18/19 1:30										

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 analyses performed by Cardinal. Remedies for water runs claim is based upon any of the above stated remedies or otherwise.

Relinquished By: **Robert Mordanz** Date: **2-15-19** Time: **12:20**

Received By: **Jessica Blalock**

Delivered By: (Circle One) **UPS - Bus - Other: -11.9g #497**

Sample Condition: Cool Intact Yes No

CHECKED BY: **fo**

REMARKS: **Email: Natalie.Crockett@whitebuffalo.com**
Monique.Cueto@whitebuffalo.com
Russ!

+ Cardinal cannot accept verbal chain of custody. Please fax written chain of custody to (575) 393-2326

Natalie Gladden

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Tuesday, August 27, 2019 8:21 AM
To: Natalie Gladden; Rose-Coss, Dylan H, EMNRD
Cc: Jerry Brian
Subject: RE: Basin Alliance - State AJ #1 SWD

Hi,

Yes, pad is treated differently than pasture. Standard geo located sampling needs to occur for sidewalls and bottom for confirmation.

If more needed let me know.

Bradford Billings

From: Natalie Gladden <ngladden@hungry-horse.com>
Sent: Tuesday, August 27, 2019 6:49 AM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Cc: Jerry Brian <jbrian@hungry-horse.com>
Subject: [EXT] Basin Alliance - State AJ #1 SWD
Importance: High

Good Morning,

As per our meeting last week in Santa Fe, it was determined that the pad remediation was approved as written in the Work Plan Proposal. With that being said the NMOCD would like for 4' of the pasture area to be excavated and hauled, with 4' of clean topsoil to be hauled in for backfill. This process would allow the native vegetation to take place. I have spoken to Basin Alliance and they are in line to get this done. We just need your email to confirm what was discussed.

Sincerely,

Natalie Gladden

*Environmental and Regulatory Director
Hungry Horse, LLC
PO Box 1058
Hobbs, NM 88240
(cell) 575-390-6397
Email: ngladden@hungry-horse.com*

BASIN ALLIANCE - STATE AJ #1												
Sample ID	Ft	Field Chl	Tit	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SP1	SUR	2240		0								
	2'	640		0								
	4'	400		0								
	6'	640		0								
	8'	480		0								
	10'	480	480	0	160	<0.300	<10	<10	<10	<10	CAL	
SP2	SUR	6960		0								
	2'	320		0								
	4'	560		0								
	6'	720		0								
	8'	560		0								
	10'	720		0								
	12'	720		0								
	14'	560		0								
	16'	480	480	0	192	<0.300	<10	<10	<10	<10	CAL	
SP3	SUR	1760		0								
	2'	400		0								
	4'	240	400	0	128	<0.300	<10	<10	<10	<10	CAL	
SP4	SUR	9200		0								
	2'	1200		0								
	4'	240		0								
	6'	480		0								
	8'	480	400	0	208	<0.300	<10	<10	<10	<10	CAL	
SP5	SUR	1840		0								
	2'	800		0								
	4'	240		0								
	6'	560		0								
	8'	480	480	0	144	<0.300	<10	<10	<10	<10	CAL	
SP6	SUR	3200		0								
	2'	1680		0								
	4'	960		0								
	6'	1200		0								

	8'	1040		0								
	10'	960		0								
	12'	800		0								
	14'	560		0								
	16'	480	480	0	112	<0.300	<10	<10	<10	<10	CAL	
SP7	SUR	1200		0								
	2'	2640		0								
	4'	2400		0								
	6'	2240		0								
	8'	1200		0								
	10'	880		0								
	12'	1220		0								
	14'	720		0								
	16'	400		0								
	18'	400	360	0	32	<0.300	<10	<10	<10	<10	CAL	
SP8	SUR	2240		0								
	2'	880		0								
	4'	560		0								
	6'	720		0								
	8'	1120		0								
	10'	880		0								
	12'	480		0								
	14'	480	800	0	560	<0.300	<10	<10	<10	<10	CAL	
SP9	SUR	13200		0								
	2'	1120		0								
	4'	1200		0								
	6'	1120		0								
	8'	1040		0								
	10'	800		0								
	12'	560		0								
	14'	560		0								
	16'	160	400	0	128	<0.300	<10	<10	<10	<10	CAL	
SP10	SUR	1040		0								
	2'	560		0								

	4'	480	800	0	576	<0.300	<10	<10	<10	<10	CAL	
SP11	SUR	480		0								
	2'	160		0								
	4'	160	800	0	96	<0.300	<10	<10	<10	<10	CAL	
SP12	SUR	8000		0								
	2'	400		0								
	4'	400	400	0	512	<0.300	<10	12.1	<10	12.1	CAL	
SP13	SUR	6400		0								
	2'	480		0								
	4'	480	800	0	560	<0.300	<10	<10	<10	<10	CAL	
SP14	SUR	1440		0								
	2'	880		0								
	4'	880		0								
	6'	400		0								
	8'	320	400	0	272	<0.300	<10	<10	<10	<10	CAL	
SP15	SUR	8400		0								
	2'	4000		0								
	4'	1360		0								
	6'	1200		0								
	8'	800		0								
	10'	240		0								
	12'	160	240	0	64	<0.300	<10	<10	<10	<10	CAL	
SP16	SUR	2080		0								
	2'	1440		0								
	4'	1280		0								
	6'	1040		0								
	8'	1200		0								
	10'	1120		0								
	12'	880		0								
	14'	320		0								
	16'	480		0								
	18'	480		0								
	20'	320	160	0	64	<0.300	<10	<10	<10	<10	CAL	
SP17	SUR	2240		0								

	2'	1240		0								
	4'	1080		0								
	6'	1080		0								
	8'	840		0								
	10'	1040		0								
	12'	1120		0								
	14'	560		0								
	16'	480	240	0	304	<0.300	<10	<10	<10	<10	CAL	

BASIN ALLIANCE - STATE AJ #1												
Sample ID	Ft	Field Chl	Tit	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SP18	SUR	1600		0								
	2'	1520		0								
	4'	800		0								
	6'	560		0								
	8'	400	400	0	48	<0.300	<10	<10	<10	<10	CAL	
SP19	SUR	4000		0								
	2'	1920		0								
	4'	960		0								
	6'	1280		0								
	8'	1120		0								
	10'	640		0								
	12'	800		0								
	14'	720		0								
	16'	560		0								
	18'	480	560	0	416	<0.300	<10	27.8	13.2	41	CAL	
SP20	SUR	1200		0								
	2'	800		0								
	4'	1120		0								
	6'	960		0								
	8'	640		0								
	10'	560		0								
	12'	400	400	0	144	<0.300	<10	<10	<10	<10	CAL	
SP21	SUR	1280		0								
	2'	800		0								
	4'	960		0								
	6'	800		0								
	8'	720		0								
	10'	640		0								
	12'	560		0								
	14'	320	560	0	208	<0.300	<10	<10	<10	<10	CAL	
SP22	SUR	400		0								
	2'	960		0								

	4'	1120		0								
	6'	800		0								
	8'	640		0								
	10'	480		0								
	12'	480	320	0	96	<0.300	<10	<10	<10	<10	CAL	
SP23	SUR	720		0								
	2'	720		0								
	4'	800		0								
	6'	1280		0								
	8'	1040		0								
	10'	560		0								
	12'	480	400	0	176	<0.300	<10	<10	<10	<10	CAL	
SP24	SUR	12560		0								
	2'	1680		0								
	4'	1680		0								
	6'	880		0								
	8'	480		0								
	10'	400	240	0	48	<0.300	<10	<10	<10	<10	CAL	
SP25	SUR	3040		0								
	2'	1760		0								
	4'	960		0								
	6'	980		0								
	8'	320	240	0	64	<0.300	<10	<10	<10	<10	CAL	
SP26	SUR	1360		0								
	2'	2240		0								
	4'	1200		0								
	6'	800		0								
	8'	560		0								
	10'	360	400	0	64	<0.300	<10	<10	<10	<10	CAL	
SP27	SUR	560		0								
	2'	800		0								
	4'	640		0								
	6'	800		0								
	8'	720		0								

	10'		560		0							
	12'		400	400	0	240	<0.300	<10	<10	<10	<10	CAL
SW1	SUR		880		0							
	1'		880		0							
	2'		960		0							
	3'		480		0							
	4'		480	400	0	272	<0.300	<10	<10	<10	<10	CAL
SW2	SUR		320		0							
	1'		240	1360	0	96	<0.300	<10	<10	<10	<10	CAL
SW3	SUR		400		0							
	1'		240	960	0	16	<0.300	<10	<10	<10	<10	CAL
SW4	SUR		400		0							
	1'		320	960	0	160	<0.300	<10	<10	<10	<10	CAL

BASIN ALLIANCE – REMEDIATION PHOTOS



BASIN ALLIANCE – REMEDIATION PHOTOS



BASIN ALLIANCE – REMEDIATION PHOTOS



BASIN ALLIANCE – REMEDIATION PHOTOS



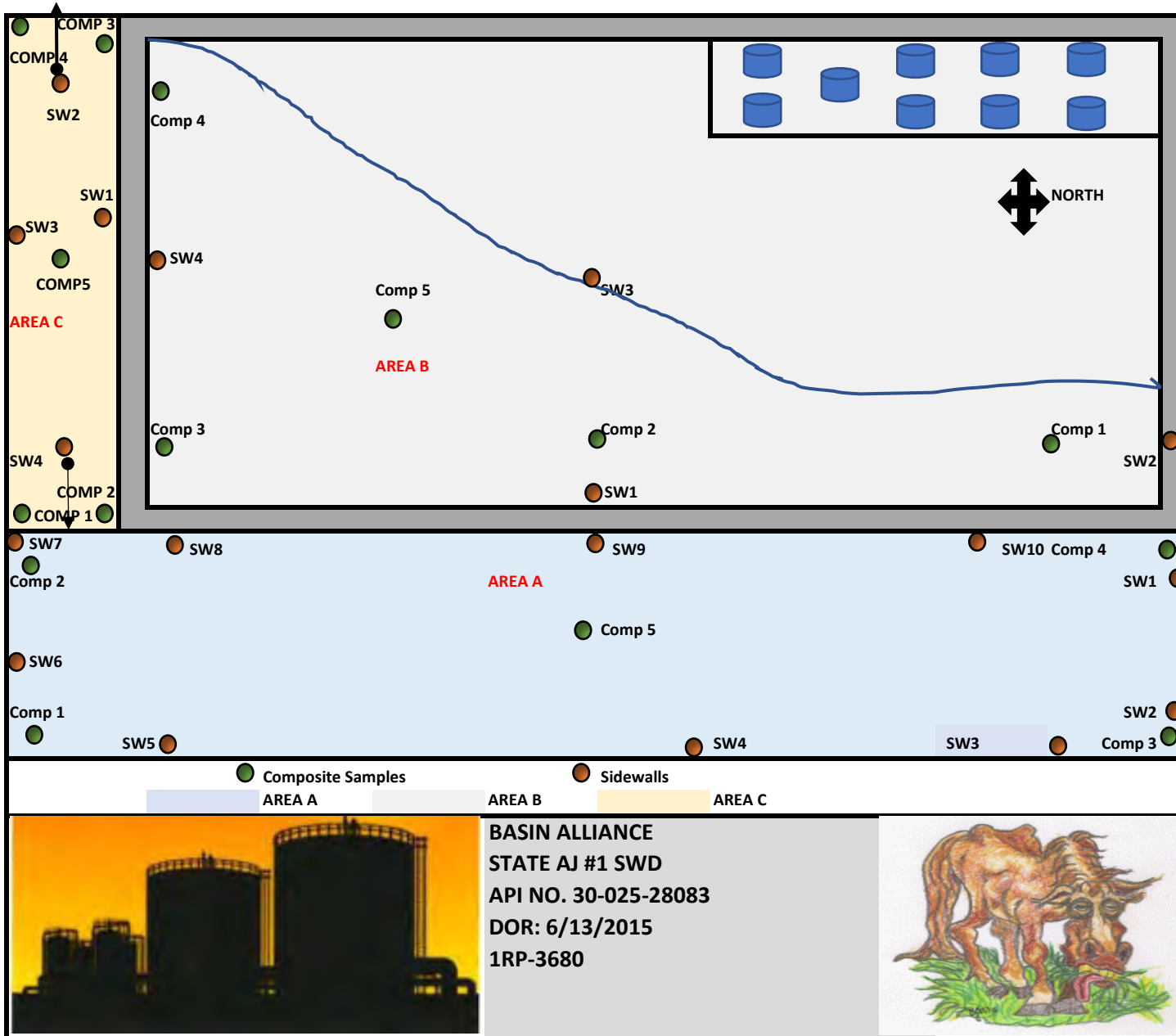
BASIN ALLIANCE – REMEDIATION PHOTOS



Company Name: Basin Alliance Location Name: State AJ #1 SWD Release Date: 6/13/2015

AREA A											
SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL	Soil	Notes
SP1 COM	4'	480	0								
SP2 COM	4'	400	0								
SP3 COM	4'	400	0								
SP4 COM	4'	400	0								
SP5 COM	4'	480	0								
SP6 COM	4'	320	0								
COM MIX	4'	400	0	ND	ND	ND	ND	ND	56.5		
SW1		360	0	ND	ND	ND	ND	ND	113		
SW2		400	0	ND	ND	ND	ND	ND	71.2		
SW3		440	0	ND	ND	ND	ND	ND	84.2		
SW4		400	0	ND	ND	ND	ND	ND	102		
SW5		360	0	ND	ND	ND	ND	ND	77.1		
SW6		360	0	ND	ND	ND	ND	ND	309		
SW7		400	0	ND	ND	ND	ND	ND	103		
SW8		400	0	ND	ND	ND	ND	ND	283		
SW9		320	0	ND	ND	ND	ND	ND	284		
SW10		360	0	ND	ND	ND	ND	ND	44.5		
AREA B											
SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL	Soil	Notes
SP1 COM	6"	320									
SP2 COM	6"	160									
SP3 COM	6"	400									
SP4 COM	6"	480									
SP5 COM	6"	400									
COM MIX	6"	480	ND	ND	ND	ND	ND	ND	25.5		
SW1		520	ND	ND	ND	ND	ND	ND	29.1		
SW2		520	ND	ND	ND	ND	ND	ND	ND		
SW3		480	ND	ND	ND	ND	ND	ND	72.8		
SW4		400	ND	ND	ND	ND	ND	ND	88.5		
AREA C											
SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL	Soil	Notes

SP1 COM	4'	480									
SP2 COM	4'	400									
SP3 COM	4'	320									
SP4 COM	4'	400									
SP5 COM	4'	480									
COM MIX	4'	400	ND	ND	ND	ND	ND	ND	211		
SW1		320	ND	ND	ND	ND	ND	ND	168		
SW2		400	ND	ND	ND	ND	ND	ND	59.7		
SW3		480	ND	ND	ND	ND	ND	ND	177		
SW4		400	ND	ND	ND	ND	ND	ND	171		





Analytical Report

Report Summary

Client: Basin Alliance

Samples Received: 10/15/2019

Job Number: 19054-0003

Work Order: P910066

Project Name/Location: State AJ

Report Reviewed By:

A handwritten signature in black ink that reads 'Walter Hinchman'.

Date: 10/18/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
 Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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 Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
 Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Basin Alliance
PO Box 1058
Hoobs NM, 88241

Project Name: State AJ
Project Number: 19054-0003
Project Manager: Lindsay Salgado

Reported:
10/18/19 11:21

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Composite Mix A	P910066-01A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW1-A	P910066-02A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW2-A	P910066-03A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW3-A	P910066-04A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW4-A	P910066-05A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW5-A	P910066-06A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW6-A	P910066-07A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW7-A	P910066-08A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW8-A	P910066-09A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW9-A	P910066-10A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW10-A	P910066-11A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
Composite (B)	P910066-12A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW1-B	P910066-13A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW2-B	P910066-14A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW3-B	P910066-15A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW4-B	P910066-16A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
Composite (C)	P910066-17A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW1-C	P910066-18A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW2-C	P910066-19A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW3-C	P910066-20A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
SW4-C	P910066-21A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.

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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

**Composite Mix A
P910066-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		96.6 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		107 %		50-200	1942012	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		96.6 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	56.5	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW1-A
P910066-02 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		105 %		50-200	1942012	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	113	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW2-A
P910066-03 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		97.2 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	1942012	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		97.2 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	71.2	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW3-A
P910066-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		99.7 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		94.3 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		110 %		50-200	1942012	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		99.7 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		94.3 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	84.2	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW4-A
P910066-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		97.0 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		108 %		50-200	1942012	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		97.0 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	102	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW5-A
P910066-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		111 %		50-200	1942012	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	77.1	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW6-A
P910066-07 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		96.1 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		106 %		50-200	1942012	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		96.1 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	309	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW7-A
P910066-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		94.6 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		112 %		50-200	1942012	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		94.6 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	103	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

**SW8-A
P910066-09 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		95.0 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	1942012	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		95.0 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	283	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW9-A
P910066-10 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		93.4 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	1942012	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		93.4 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	284	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW10-A
P910066-11 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %		70-130	1942011	10/15/19	10/16/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	1942013	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %		70-130	1942011	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	44.5	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

Composite (B)
P910066-12 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.6 %		50-150	1942014	10/15/19	10/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		111 %		50-200	1942013	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.6 %		50-150	1942014	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	25.5	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	

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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW1-B
P910066-13 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.4 %		50-150	1942014	10/15/19	10/16/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		112 %		50-200	1942013	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.2 %		50-150	1942014	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	29.1	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW2-B
P910066-14 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.2 %		50-150	1942014	10/15/19	10/16/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		110 %		50-200	1942013	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.4 %		50-150	1942014	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW3-B
P910066-15 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.1 %		50-150	1942014	10/15/19	10/16/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		113 %		50-200	1942013	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.5 %		50-150	1942014	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	72.8	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW4-B
P910066-16 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.7 %		50-150	1942014	10/15/19	10/16/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		111 %		50-200	1942013	10/15/19	10/16/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.8 %		50-150	1942014	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	88.5	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

Composite (C)
P910066-17 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.8 %		50-150	1942014	10/15/19	10/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		117 %		50-200	1942013	10/15/19	10/17/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.8 %		50-150	1942014	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	211	20.0	mg/kg	1	1942015	10/15/19	10/16/19	EPA 300.0/9056A	

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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW1-C
P910066-18 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.1 %		50-150	1942014	10/15/19	10/16/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		114 %		50-200	1942013	10/15/19	10/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %		50-150	1942014	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	168	20.0	mg/kg	1	1942015	10/15/19	10/16/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW2-C
P910066-19 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.8 %		50-150	1942014	10/15/19	10/16/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	1942013	10/15/19	10/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %		50-150	1942014	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	59.7	20.0	mg/kg	1	1942015	10/15/19	10/16/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW3-C
P910066-20 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.6 %		50-150	1942014	10/15/19	10/16/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		112 %		50-200	1942013	10/15/19	10/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.0 %		50-150	1942014	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	177	20.0	mg/kg	1	1942015	10/15/19	10/16/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

SW4-C
P910066-21 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.4 %		50-150	1942014	10/15/19	10/16/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		107 %		50-200	1942013	10/15/19	10/17/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.8 %		50-150	1942014	10/15/19	10/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	171	20.0	mg/kg	1	1942010	10/15/19	10/15/19	EPA 300.0/9056A	
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1942011 - Purge and Trap EPA 5030A

Blank (1942011-BLK1)

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.515		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.514		"	0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.471		"	0.500		94.2	70-130			

LCS (1942011-BS1)

Prepared: 10/15/19 1 Analyzed: 10/16/19 0

Benzene	2.58	0.0250	mg/kg	2.50	ND	103	70-130			
Toluene	2.69	0.0250	"	2.50	ND	107	70-130			
Ethylbenzene	2.73	0.0250	"	2.50	ND	109	70-130			
p,m-Xylene	5.38	0.0500	"	5.00	ND	108	70-130			
o-Xylene	2.67	0.0250	"	2.50	ND	107	70-130			
Total Xylenes	8.05	0.0250	"	7.50	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.531		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.503		"	0.500		101	70-130			

Matrix Spike (1942011-MS1)

Source: P910066-01

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Benzene	2.53	0.0250	mg/kg	2.50	ND	101	48-131			
Toluene	2.57	0.0250	"	2.50	ND	103	48-130			
Ethylbenzene	2.64	0.0250	"	2.50	ND	106	45-135			
p,m-Xylene	5.18	0.0500	"	5.00	ND	104	43-135			
o-Xylene	2.60	0.0250	"	2.50	ND	104	43-135			
Total Xylenes	7.78	0.0250	"	7.50	ND	104	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.526		"	0.500		105	70-130			
Surrogate: Toluene-d8	0.519		"	0.500		104	70-130			
Surrogate: Bromofluorobenzene	0.506		"	0.500		101	70-130			

Matrix Spike Dup (1942011-MSD1)

Source: P910066-01

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Benzene	2.45	0.0250	mg/kg	2.50	ND	97.9	48-131	3.43	23	
Toluene	2.50	0.0250	"	2.50	ND	99.9	48-130	2.78	24	
Ethylbenzene	2.57	0.0250	"	2.50	ND	103	45-135	2.80	27	
p,m-Xylene	5.05	0.0500	"	5.00	ND	101	43-135	2.50	27	
o-Xylene	2.54	0.0250	"	2.50	ND	102	43-135	2.33	27	
Total Xylenes	7.60	0.0250	"	7.50	ND	101	43-135	2.45	27	
Surrogate: 1,2-Dichloroethane-d4	0.527		"	0.500		105	70-130			
Surrogate: Toluene-d8	0.524		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.509		"	0.500		102	70-130			

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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1942014 - Purge and Trap EPA 5030A

Blank (1942014-BLK1)

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	7.45		"	8.00		93.2	50-150			

LCS (1942014-BS1)

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Benzene	5.55	0.0250	mg/kg	5.00		111	70-130			
Toluene	5.54	0.0250	"	5.00		111	70-130			
Ethylbenzene	5.53	0.0250	"	5.00		111	70-130			
p,m-Xylene	11.1	0.0500	"	10.0		111	70-130			
o-Xylene	5.55	0.0250	"	5.00		111	70-130			
Total Xylenes	16.6	0.0250	"	15.0		111	70-130			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	7.46		"	8.00		93.3	50-150			

Matrix Spike (1942014-MS1)

Source: P910066-12

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Benzene	5.07	0.0250	mg/kg	5.00	ND	101	54.3-133			
Toluene	5.05	0.0250	"	5.00	ND	101	61.4-130			
Ethylbenzene	5.04	0.0250	"	5.00	ND	101	61.4-133			
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131			
o-Xylene	5.06	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.2	0.0250	"	15.0	ND	101	63.3-131			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	7.51		"	8.00		93.9	50-150			

Matrix Spike Dup (1942014-MSD1)

Source: P910066-12

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Benzene	5.02	0.0250	mg/kg	5.00	ND	100	54.3-133	1.02	20	
Toluene	5.00	0.0250	"	5.00	ND	100	61.4-130	1.01	20	
Ethylbenzene	4.99	0.0250	"	5.00	ND	99.9	61.4-133	0.947	20	
p,m-Xylene	10.0	0.0500	"	10.0	ND	100	63.3-131	0.928	20	
o-Xylene	5.01	0.0250	"	5.00	ND	100	63.3-131	0.895	20	
Total Xylenes	15.0	0.0250	"	15.0	ND	100	63.3-131	0.917	20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	7.51		"	8.00		93.9	50-150			

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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1942012 - DRO Extraction EPA 3570

Blank (1942012-BLK1)

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	58.9		"	50.0		118	50-200			

LCS (1942012-BS1)

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Diesel Range Organics (C10-C28)	524	25.0	mg/kg	500		105	38-132			
Surrogate: n-Nonane	54.3		"	50.0		109	50-200			

Matrix Spike (1942012-MS1)

Source: P910066-01

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Diesel Range Organics (C10-C28)	497	25.0	mg/kg	500	ND	99.4	38-132			
Surrogate: n-Nonane	51.9		"	50.0		104	50-200			

Matrix Spike Dup (1942012-MSD1)

Source: P910066-01

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Diesel Range Organics (C10-C28)	480	25.0	mg/kg	500	ND	95.9	38-132	3.53	20	
Surrogate: n-Nonane	52.4		"	50.0		105	50-200			

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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1942013 - DRO Extraction EPA 3570

Blank (1942013-BLK1)

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	54.5		"	50.0		109	50-200			

LCS (1942013-BS1)

Prepared: 10/15/19 1 Analyzed: 10/16/19 2

Diesel Range Organics (C10-C28)	520	25.0	mg/kg	500		104	38-132			
Surrogate: n-Nonane	53.9		"	50.0		108	50-200			

Matrix Spike (1942013-MS1)

Source: P910066-11

Prepared: 10/15/19 1 Analyzed: 10/16/19 2

Diesel Range Organics (C10-C28)	548	25.0	mg/kg	500	ND	110	38-132			
Surrogate: n-Nonane	55.8		"	50.0		112	50-200			

Matrix Spike Dup (1942013-MSD1)

Source: P910066-11

Prepared: 10/15/19 1 Analyzed: 10/16/19 2

Diesel Range Organics (C10-C28)	556	25.0	mg/kg	500	ND	111	38-132	1.50	20	
Surrogate: n-Nonane	55.2		"	50.0		110	50-200			

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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1942011 - Purge and Trap EPA 5030A

Blank (1942011-BLK1)

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.515		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.514		"	0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.471		"	0.500		94.2	70-130			

LCS (1942011-BS2)

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics (C6-C10)	50.8	20.0	mg/kg	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.529		"	0.500		106	70-130			
Surrogate: Toluene-d8	0.524		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.484		"	0.500		96.7	70-130			

Matrix Spike (1942011-MS2)

Source: P910066-01

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics (C6-C10)	48.2	20.0	mg/kg	50.0	ND	96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.534		"	0.500		107	70-130			
Surrogate: Toluene-d8	0.526		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.496		"	0.500		99.1	70-130			

Matrix Spike Dup (1942011-MSD2)

Source: P910066-01

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics (C6-C10)	41.2	20.0	mg/kg	50.0	ND	82.4	70-130	15.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.529		"	0.500		106	70-130			
Surrogate: Toluene-d8	0.522		"	0.500		104	70-130			
Surrogate: Bromofluorobenzene	0.495		"	0.500		99.0	70-130			

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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1942014 - Purge and Trap EPA 5030A

Blank (1942014-BLK1)

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.82		"	8.00		85.2	50-150			

LCS (1942014-BS2)

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Gasoline Range Organics (C6-C10)	46.0	20.0	mg/kg	50.0		92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		"	8.00		85.7	50-150			

Matrix Spike (1942014-MS2)

Source: P910066-12

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Gasoline Range Organics (C6-C10)	45.5	20.0	mg/kg	50.0	ND	90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		"	8.00		86.4	50-150			

Matrix Spike Dup (1942014-MSD2)

Source: P910066-12

Prepared: 10/15/19 1 Analyzed: 10/16/19 1

Gasoline Range Organics (C6-C10)	46.7	20.0	mg/kg	50.0	ND	93.4	70-130	2.67	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		"	8.00		86.7	50-150			

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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1942010 - Anion Extraction EPA 300.0/9056A

Blank (1942010-BLK1)

Prepared & Analyzed: 10/15/19 1

Chloride	ND	20.0	mg/kg							
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LCS (1942010-BS1)

Prepared & Analyzed: 10/15/19 1

Chloride	254	20.0	mg/kg	250	3040	102	90-110			
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Matrix Spike (1942010-MS1)

Source: P910063-01

Prepared & Analyzed: 10/15/19 1

Chloride	3290	200	mg/kg	250	3040	97.0	80-120			
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Matrix Spike Dup (1942010-MSD1)

Source: P910063-01

Prepared & Analyzed: 10/15/19 1

Chloride	3420	200	mg/kg	250	3040	150	80-120	3.94	20	M4
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Basin Alliance	Project Name:	State AJ	Reported: 10/18/19 11:21
PO Box 1058	Project Number:	19054-0003	
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1942015 - Anion Extraction EPA 300.0/9056A

Blank (1942015-BLK1)

Prepared & Analyzed: 10/15/19 1

Chloride	ND	20.0	mg/kg							
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LCS (1942015-BS1)

Prepared & Analyzed: 10/15/19 1

Chloride	254	20.0	mg/kg	250		102	90-110			
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Matrix Spike (1942015-MS1)

Source: P910066-01

Prepared & Analyzed: 10/15/19 1

Chloride	314	20.0	mg/kg	250	56.5	103	80-120			
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Matrix Spike Dup (1942015-MSD1)

Source: P910066-01

Prepared & Analyzed: 10/15/19 1

Chloride	316	20.0	mg/kg	250	56.5	104	80-120	0.438	20	
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QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Basin Aliance	Project Name:	State AJ	
PO Box 1058	Project Number:	19054-0003	Reported:
Hoobs NM, 88241	Project Manager:	Lindsay Salgado	10/18/19 11:21

Notes and Definitions

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Client: <u>Basin Alliance</u>		Report Attention		Lab Use Only		TAT		EPA Program						
Project: <u>State AT</u>		Report due by:		Lab WO# <u>P910066</u>		Job Number <u>19054-6003</u>		1D	3D	RCRA	CWA	SDWA		
Project Manager: <u>Lindsay Salgado</u>		Attention:		Analysis and Method						State				
Address: <u>PO Box 1058</u>		Address:		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		NM	CO	UT	AZ
City, State, Zip: <u>Lawton Hobbs NM</u>		City, State, Zip:		Remarks										
Phone:		Phone:												
Email: <u>ngladden@hungry-horse.com</u>		Email:												

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks			
9:03	10/11/19			Composite mix (A)	1	~	~	~							
10:15	10/11/19			SW1 - A	2	~	~	~							
10:31	10/11/19			SW2 - A	3	~	~	~							
10:40	10/11/19			SW3 - A	4	~	~	~							
10:47	10/11/19			SW4 - A	5	~	~	~							
10:53	10/11/19			SW5 - A	6	~	~	~							
11:31	10/11/19			SW6 - A	7	~	~	~							
11:37	10/11/19			SW7 - A	8	~	~	~							
11:49	10/11/19			SW8 - A	9	~	~	~							
11:53	10/11/19			SW9 - A	10	~	~	~							


Additional Instructions: vis ice in cooler

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Lab Use Only
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Received by: (Signature) <u>FedEx</u>	Date <u>10/14/19</u>	Time <u>10:30</u>	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other						AVG Temp °C <u>4</u>
Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - VOA						T1 _____ T2 _____ T3 _____

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.


FedEx 10/15/19 9:30
Rain Lopez 10/15/19 9:30
5795 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone (800) 362-1879



Client: Basin Alliance
 Project: State A1
 Project Manager: Ludsey Salgado
 Address: PO BOX 10518
 City, State, Zip: Hobbs NM
 Phone:
 Email: N.Gladden@hugoboy-hors.com

Report Attention
 Report due by:
 Attention:
 Address:
 City, State, Zip
 Phone:
 Email:

Lab Use Only
 Lab WO# P910066 Job Number 19054-0003
 TAT 1D 3D
 EPA Program RCRA CWA SDWA

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Analysis and Method						State				Remarks
						DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM	CO	UT	AZ	
12:07	10.11.19			SW10-A	11											
1:45	10.11.19			SW10 -Composite (B)	12											
1:50	10.11.19			SW1 - B	13											
1:53	10.11.19			SW2 - B	14											
2:00	10.11.19			SW3 - B	15											
2:11	10.11.19			SW4 - B	16											
2:50	10.11.19			Composite (C)	17											
3:03	10.11.19			SW1 - C	18											
3:11	10.11.19			SW2 - C	19											
3:14	10.11.19			SW2 - C	20											

Additional Instructions: use ice in cooler

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature) <u>N.Gladden</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Received by: (Signature) <u>FedEx</u>	Date <u>10/14/19</u>	Time <u>16:30</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



FedEx 10/15/19 9:30
 Rene Lopez 10/15/19 9:3

5796 US Highway 64, Farmington, NM 87401
 24 Hour Emergency Response Phone: (800) 362-1879
 Ph: (505) 632-1881 Fx: (505) 632-1865

envirotech.com
 labadmin@envirotech.com

Client: <u>Basin Alliance</u>		Report Attention		Lab Use Only		TAT		EPA Program						
Project: <u>State AET</u>		Report due by: _____		Lab WO# <u>P910064</u>		Job Number <u>19054-0003</u>		1D	3D	RCRA	CWA	SDWA		
Project Manager: <u>Judith Salgado</u>		Attention: _____		Analysis and Method						State				
Address: <u>PO BOX 10528</u>		Address: _____		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		NM	CO	UT	AZ
City, State, Zip: <u>Hobbs NM</u>		City, State, Zip: _____									Remarks			
Phone: _____		Phone: _____												
Email: <u>NGIaddu@hulugv-horse-ce</u>		Email: _____												

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0							
3:20	10/14/19			SW4-(C)	21	X	X	X			X							

Additional Instructions: vis icein cooler

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Received by: (Signature) <u>FedEx</u>	Date <u>10/14/19</u>	Time <u>16:30</u>	

Sample Matrix: S - Sbil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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FedEx 10/15/19 9:30 Rain Lopez 10/15/19 9:30

labadmin@envirotech.com

Released to Imaging: 2/2/2023 7:42:49 AM

Received by OCD: 1/26/2023 10:18:23 AM

Client: <u>Basin Alliance</u> Project: <u>State AT</u> Project Manager: <u>Lindsay Salgado</u> Address: <u>PO Box 1058</u> <u>Lawton Hobbs NM</u> City, State, Zip Phone: Email: <u>Njadden@hungry-horse.com</u>	Report Attention Report due by: Attention: Address: City, State, Zip Phone: Email:	Lab Use Only Lab WO# <u>9910066</u> Job Number <u>19054-0003</u>	TAT 1D <input type="checkbox"/> 3D <input type="checkbox"/>	EPA Program RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> State NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/>
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Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	1D	3D	RCRA	CWA	SDWA	Remarks	
8:03	10/11/19			Composite mix (A)	1	✓	✓	✓										
10:15	10/11/19			SW1 - A	2	✓	✓	✓										
10:31	10/11/19			SW2 - A	3	✓	✓	✓										
10:40	10/11/19			SW3 - A	4	✓	✓	✓										
10:47	10/11/19			SW4 - A	5	✓	✓	✓										
10:53	10/11/19			SWS - A	6	✓	✓	✓										
11:31	10/11/19			SW6 - A	7	✓	✓	✓										
11:37	10/11/19			SW7 - A	8	✓	✓	✓										
11:49	10/11/19			SW8 - A	9	✓	✓	✓										
11:53	10/11/19			SW9 - A	10	✓	✓	✓										

Additional Instructions: vis ice in cooler


I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Received by: (Signature) <u>FedEx</u>	Date <u>10/14/19</u>	Time <u>18:30</u>	T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech
Analytical Laboratory

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labadmin@envirotech.com
labadmin@envirotech.com

Page 196 of 213

Client: Basin Alliance
 Project: State AF
 Project Manager: Andrey Salgado
 Address: PO BOX 10518
 City, State, Zip: Hobbs NM
 Phone:
 Email: N.Gladden@hungerford-hors.com

Report Attention
 Report due by:
 Attention:
 Address:
 City, State, Zip
 Phone:
 Email:

Lab Use Only
 Lab WO# P910066 Job Number 19031-0003
 TAT 1D 3D
 EPA Program RCRA CWA SDWA

Analysis and Method
 State
 NM CO UT AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks
12:07	10.11.19			SW10-A	11							
1:45	10.11.19			SW10 - Composite (B)	12							
1:50	10.11.19			SW1 - B	13							
1:53	10.11.19			SW2 - B	14							
2:00	10.11.19			SW3 - B	15							
2:11	10.11.19			SW4 - B	16							
2:50	10.11.19			Composite (C)	17							
3:03	10.11.19			SW1 - C	18							
3:11	10.11.19			SW2 - C	19							
3:14	10.11.19			SW2 - C SW3 - C per client	20							

Additional Instructions: 10-15-19 use ice in cooler

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10-14-19</u>	Time <u>1535</u>	Received by: (Signature) <u>FedEx</u>	Date <u>10/14/19</u>	Time <u>16:30</u>	T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
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FedEx 10/15/19 9:30 **Rene Lopez** 10/15/19 9:30

envirotech Analytical Laboratory
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 24 Hour Emergency Response Phone: (800) 362-1879

Ph: (505) 632-4881 Fx: (505) 632-1865
 info@envirotech.com
 labadmin@envirotech.com

Client: Basin Alliance
 Project: State HS
 Project Manager: Luis Salgado
 Address: PO BOX 10538
 City, State, Zip: Hobbs NM
 Phone: _____
 Email: NGIaddu@hulugm-horsl-co

Report Attention
 Report due by: _____
 Attention: _____
 Address: _____
 City, State, Zip _____
 Phone: _____
 Email: _____

Lab Use Only
 Lab WO# P910064 Job Number 19054-0003
 TAT 1D 3D
 EPA Program RCRA CWA SDWA

Analysis and Method
 DRO/ORO by 8015
 GRO/DRO by 8015
 BTEX by 8021
 VOC by 8260
 Metals 6010
 Chloride 300.0
 State NM CO UT AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks
3:20	10/1/19			SW4-(C)	21	X	X	X			X	

Additional Instructions: vis icein cooler

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Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10/14/19</u>	Time <u>1535</u>	Received by: (Signature) <u>FedEx</u>	Date <u>10/14/19</u>	Time <u>16:30</u>	T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>

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BASIN ALLIANCE – STATE AJ #1 SWD – CLOSURE PHOTOS



BASIN ALLIANCE – STATE AJ #1 SWD – CLOSURE PHOTOS



BASIN ALLIANCE – STATE AJ #1 SWD – CLOSURE PHOTOS



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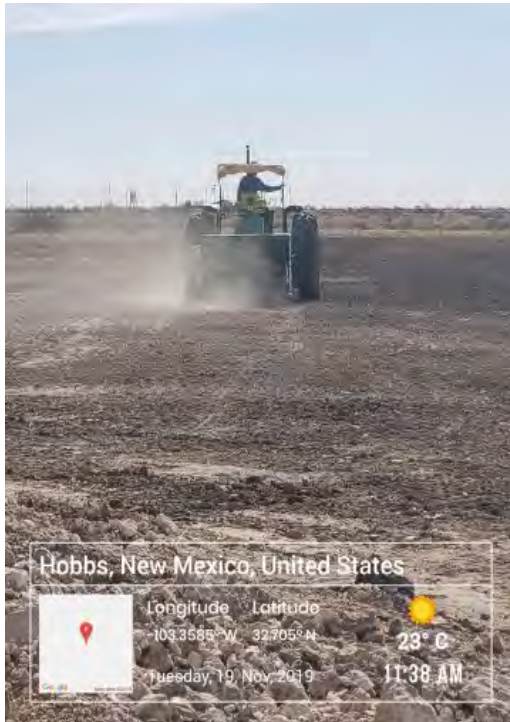
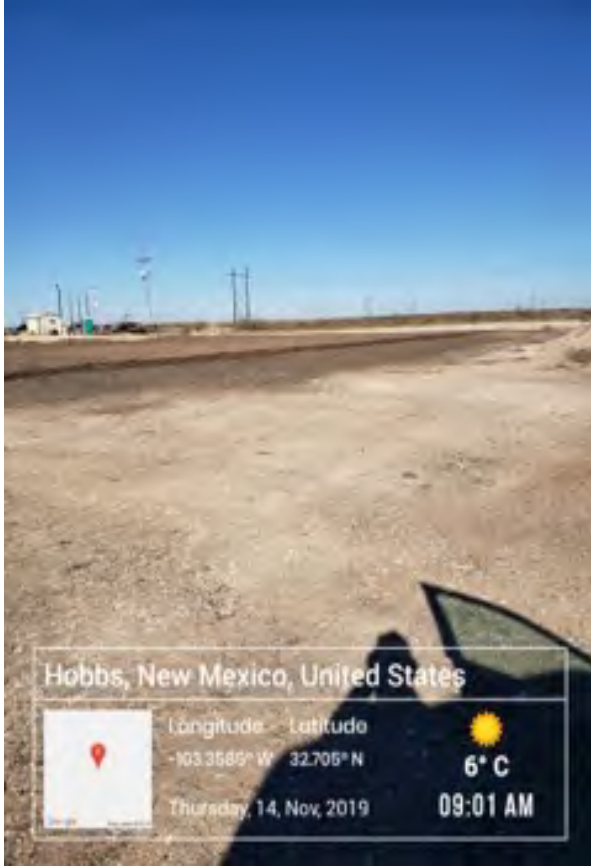
BASIN ALLIANCE – STATE AJ #1 SWD – CLOSURE PHOTOS



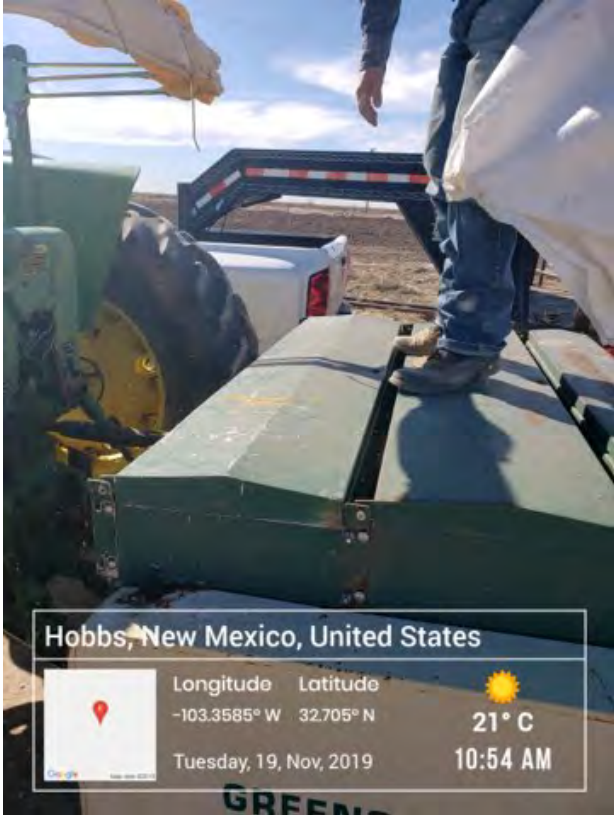
BASIN ALLIANCE – STATE AJ #1 SWD – CLOSURE PHOTOS



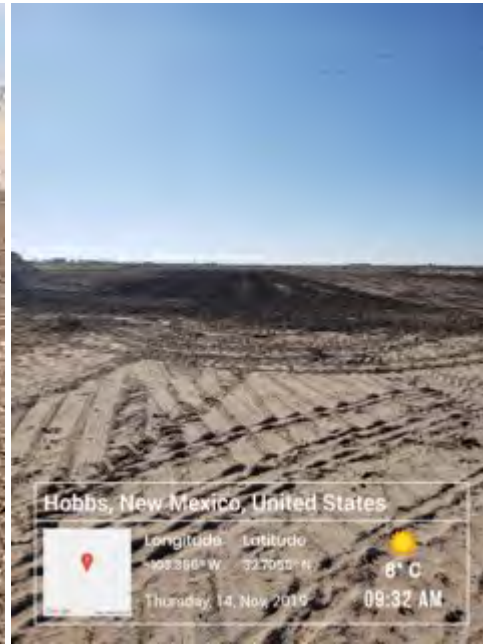
BASIN ALLIANCE – STATE AJ #1 SWD – CLOSURE PHOTOS



BASIN ALLIANCE – STATE AJ #1 SWD – CLOSURE PHOTOS



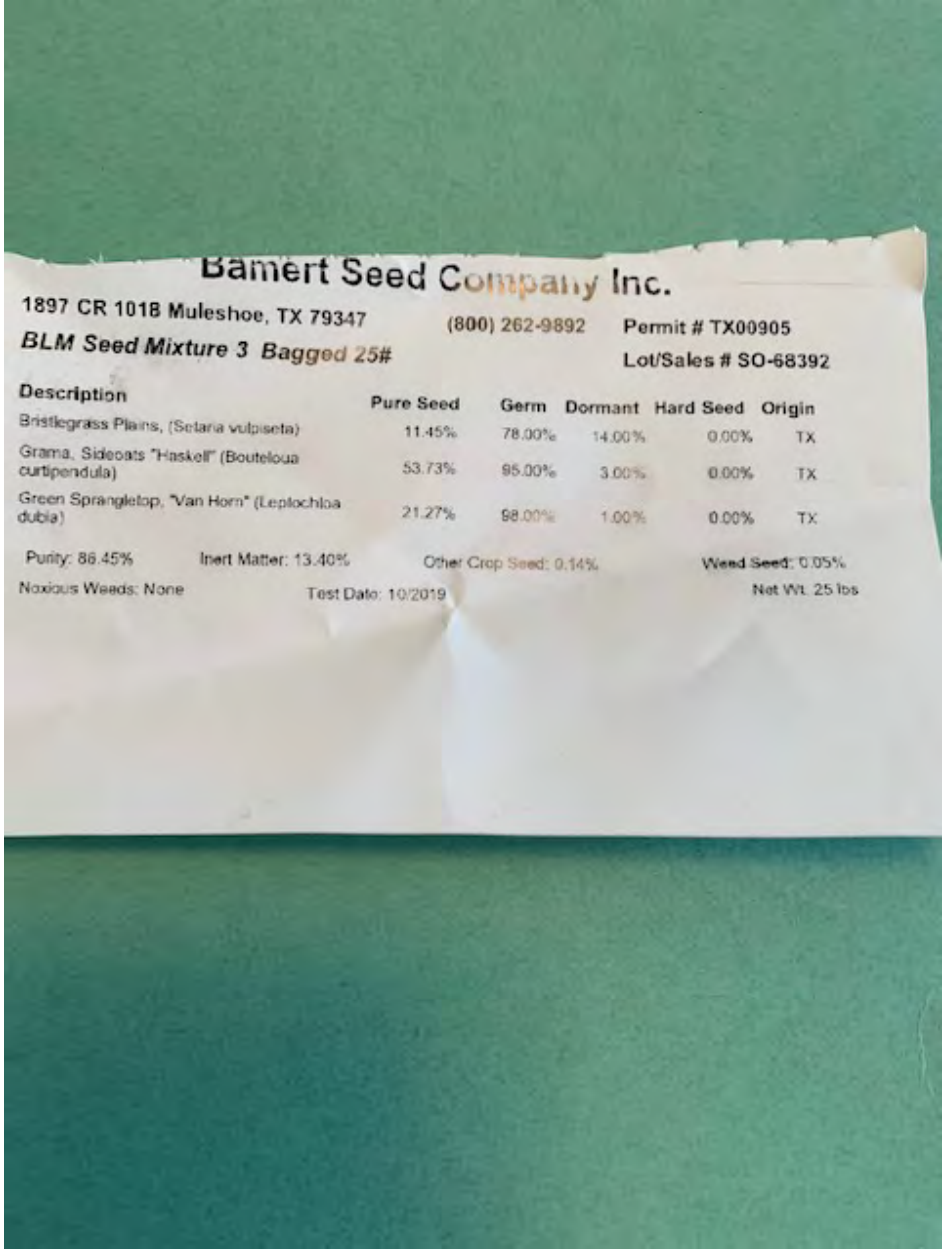
BASIN ALLIANCE – STATE AJ #1 SWD – CLOSURE PHOTOS



BASIN ALLIANCE – STATE AJ #1 SWD – CLOSURE PHOTOS



BASIN ALLIANCE – STATE AJ #1 SWD – CLOSURE PHOTOS



District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 179880

CONDITIONS

Operator: BASIN ALLIANCE LLC P.O. Box 1378 Hobbs, NM 88241	OGRID: 168776
	Action Number: 179880
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/2/2023