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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NJCW051015366
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	MAS Operating	OGRID	267077
Contact Name	Brantley Heiser	Contact Telephone	432-618-0678
Contact email	masoperating@att.net	Incident # *(assigned by OCD)*	NJCW0510153664
Contact mailing address	P.O. Box 52167 Midland, TX 79710		

Location of Release Source

Latitude 32.5286484 Longitude -103.5469055

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	BV Lynch A Federal #001	Site Type	Well Location
Date Release Discovered	~~December 2021~~ 4/11/2005	API# *(if applicable)*	30-025-12550

Unit Letter	Section	Township	Range	County
J	34	20S	34E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* Danny Berry Ranch)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 50	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
A recent administrative review indicated a previous release that was not addressed by a previous well owner. MAS observed no active leaks, and made efforts to remediate the property.

State of New Mexico
Oil Conservation Division

Incident ID	NJCW051015366
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ■ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ■ The source of the release has been stopped.
- ■ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ■ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:
Release materials were in solid form, there was no reason to contain them with dikes or berms. Additionally, there were no free liquids to be removed in this remediation.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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.

Printed Name: Brantley Heiserehsier Title: Presidentpt

Signature: Brantley H Date: 2/10/2022

email: masoperating@att.net Telephone: 432.349.3846

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NJCW051015366
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	785 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ■ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ■ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ■ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ■ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ■ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ■ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ■ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ■ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ■ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ■ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ■ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ■ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ■ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ■ Field data
- ■ Data table of soil contaminant concentration data
- ■ Depth to water determination
- ■ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ■ Photographs including date and GIS information
- ■ Topographic/Aerial maps
- ■ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NJCW051015366
District RP	
Facility ID	
Application ID	

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.

Printed Name: Brantley Heiserhi Title: President

Signature: Brantley H Date: 1/22/2022

email: masoperating@att.net Telephone: 432.349.3846

OCD Only

Received by: _____ Date: _____

Incident ID	NJCW051015366
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- [x] Detailed description of proposed remediation technique
- [x] Scaled sitemap with GPS coordinates showing delineation points
- [x] Estimated volume of material to be remediated
- [x] Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- [x] Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- [ ] Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- [ ] Extents of contamination must be fully delineated.
- [ ] Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Brantley Heiserh Title: President

Signature: Brantley Heiserh Date: 1/22/2022

email: masoperating@att.net Telephone: 432.349.3846

OCD Only

Received by: _____ Date: _____

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: _____ Date: _____

Incident ID	NJCW051015366
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.***

- [x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- [x] 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)
- [x] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- [x] 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: Brantley Heiser Title: President

Signature: Brantley Heiser Date: 8/31/2022

email: bwheiser@sbcglobal.net Telephone: 432-349-3846

OCD Only

Received by: _____ Date: _____

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: Jennifer Nobui Date: 04/01/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

MAS Operating
BV Lynch A Fed #1

Remediation Report
J-34-20S-34E
Lea County, New Mexico

NJCW0510153664

January 20, 2022

Prepared for:

MAS Operating
P.O. Box 52167
Midland, TX 79710

By:

Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240

Company Contacts

Representative	Company	Telephone	E-mail
Brantley Heiser	MAS Operating	432-349-3846	masoperating@att.net
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was contracted by MAS Operating to assess the BV Lynch A Fed #1 location. This site is situated in UL J, Section 34, Township 20S and Range 34E, in Lea County New Mexico.

According to historical records, This well location had a previous release that was not addressed, but allowed to transfer in sale. This report is documentation in an effort to remediate the historical release.

Surface and Ground Water

According to the NMOCD Oil and Gas Map, there is no surface water within 3,000 feet of this location. Depth to groundwater determination was established to be 785' bgs according to data obtained by the OSE well records. Based on the guidelines required by NMOCD; MAS will remediate this location according to criteria set forth by NMOCD in NMAC 19.15.29.

Characterization

The location was fully delineated both vertically and horizontally, which includes establishing horizontal and vertical extent of delineation to the standards set forth in Table I of NMAC 19.15.29.

Investigation

SESI personnel mapped the location, including areas of previous investigations and sampled the area to achieve both vertical and horizontal delineation. Samples were taken at the surface and 1-foot intervals until field testing indicated the samples would meet target levels. The results of the analytical are captured in the summary table below.

MAS Operating
BV Lynch A Fed #1
Soil Sample Results: Hall Environmental Laboratories 12/30/21

SAMPLE ID	Chloride	GRO	DRO	MRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
TT-1 @ 1'	96	ND	**110**	**950**	ND	ND	ND	ND
TT-1 @ 4'	**900**	ND	34	98	ND	ND	ND	ND
TT-1 @ 5'	480	ND	ND	ND	ND	ND	ND	ND
TT-2 @ 1'	77	ND	ND	ND	ND	ND	ND	ND
TT-2 @ 3'	120	ND	ND	ND	ND	ND	ND	ND
TT-2 @ 4'	230	ND	ND	ND	ND	ND	ND	ND
TT-3 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
TT-3 @ 3'	ND	ND	ND	ND	ND	ND	ND	ND
TT-3 @ 4'	ND	ND	ND	ND	ND	ND	ND	ND
TT-4 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
TT-4 @ 3'	ND	ND	ND	ND	ND	ND	ND	ND
TT-4 @ 4'	ND	ND	ND	ND	ND	ND	ND	ND
TT-5 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
TT-5 @ 3'	ND	ND	ND	ND	ND	ND	ND	ND

TT-5 @ 4’	ND	ND	ND	ND	ND	ND	ND	ND

Remediation

Based on the results of the delineation, SESI, determined the best course of action is to excavate the contaminated soil to a depth of 3 feet as applicable. In January of 2022, contaminated material was removed by excavating the affected area. Confirmation samples were taken to ensure remediation was successful and that the vertical and horizontal extent of the location had been established. The samples were properly preserved and packaged then sent to Hall Environmental Laboratories for analysis. The results of the sampling is captured in the table below.

MAS Operating BV Lynch A Fed #1 Soil Sample Results: Hall Environmental Laboratories 1/4/22								
SAMPLE ID	**Chloride**	**GRO**	**DRO**	**MRO**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**
SP-1 BTM @ 3’	200	ND	ND	81	ND	ND	ND	ND
SP-2 BTM @ 3’	220	ND	ND	74	ND	ND	ND	ND
Horizontal Extent								
E. Wall	200	ND	11	71	ND	ND	ND	ND
N. Wall	74	ND	ND	62	ND	ND	ND	ND
S. Wall	78	ND	ND	48	ND	ND	ND	ND
W. Wall	75	ND	32	56	ND	ND	ND	ND

Once sample results verified both successful remediation and horizontal extent, the site was backfilled with clean soil. Pictures of the remediation are included in this report.

Closure Request

Based on the confirmation and horizontal sample results, SESI believes the location to be properly remediated according to the closure criteria set forth in Table I of the Spill Rule 19.15.29 NMAC. Therefore, SESI, on behalf of MAS Operating respectfully requests closure and release of this location. Supplemental information has been included in this report to support our closure request.

Supplemental Documentation for Closure

Map of Release with sample locations
Photos of release and remediation
NMOCD Oil and Gas Map
BLM Cave Karst Map
FEMA Floodplain Map
Laboratory Analysis

MAS Operating

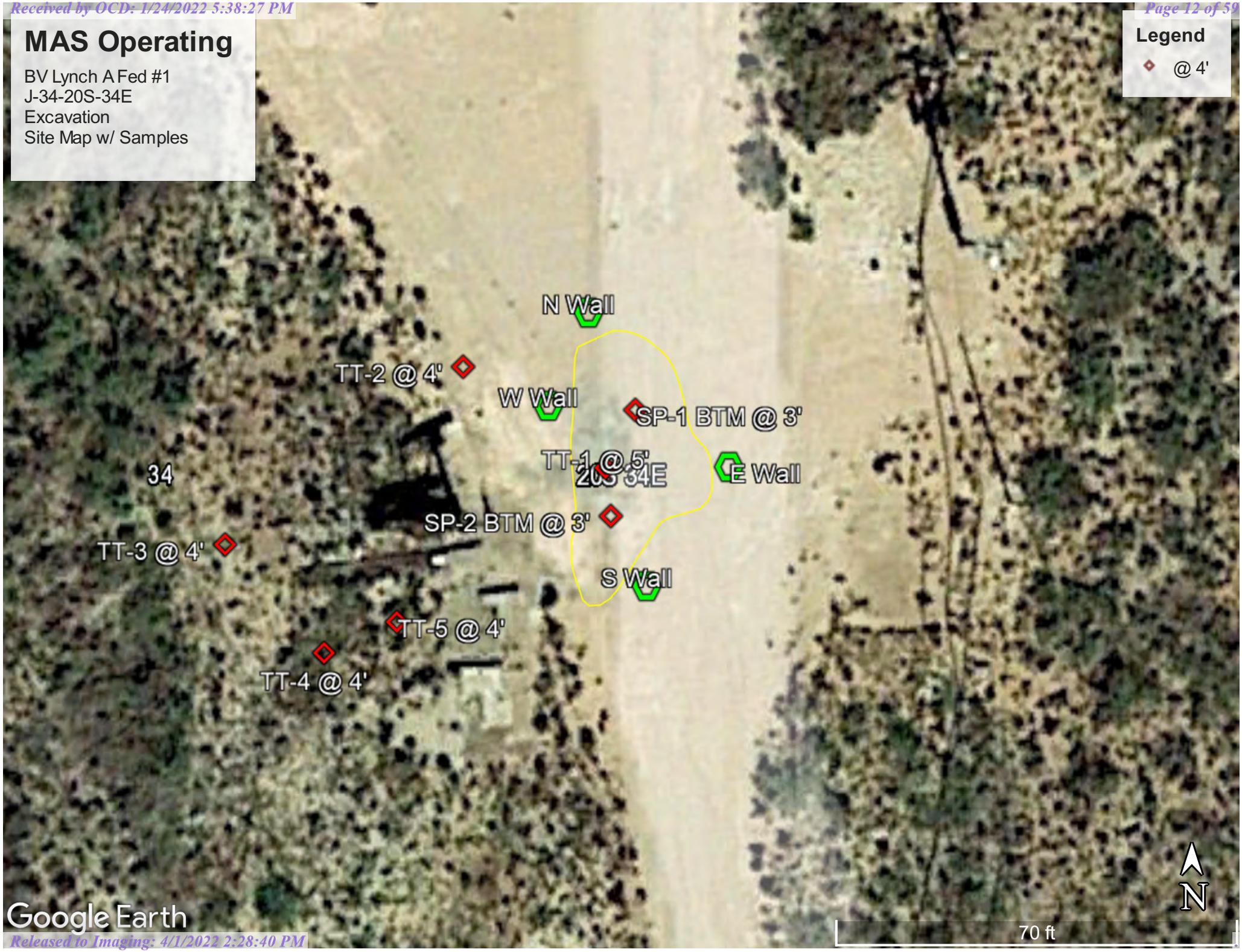
BV Lynch A Fed #1
J-34-20S-34E
Area Map

MAS Operating

BV Lynch A Fed #1
J-34-20S-34E
Site Map w/ Samples

MAS Operating

BV Lynch A Fed #1
J-34-20S-34E
Excavation
Site Map w/ Samples



OSE POD Locations Map

1/19/2022, 6:43:49 PM

GIS WATERS PODs

- Active
- Pending
- OSE District Boundary

Water Right Regulations

- Closure Area

New Mexico State Trust Lands

- Subsurface Estate
- Both Estates
- SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
2016 AUG -9 PM 1:02

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): CP- 1352 (September) *** Revised 08/01/16 ***	OSE FILE NUMBER(S):
WELL OWNER NAME(S): Berry Ranch/Glenn's Water Well Service, Inc.	PHONE (OPTIONAL): 575-398-2424
WELL OWNER MAILING ADDRESS: P. O. Box 692	CITY: Tatum STATE: NM ZIP: 88267

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	31	35.0	N
LONGITUDE	-103	32	45.4	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE:
SW1/4NW1/4SE1/4 Sec. 34 T20S R34E on Berry Ranch Land

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 421	Corky Glenn	Glenn's Water Well Service, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
06/30/14	07/07/14	1,270	1,270	1,014

COMPLETED WELL IS: (•) ARTESIAN ( ) DRY HOLE ( ) SHALLOW (UNCONFINED)
STATIC WATER LEVEL IN COMPLETED WELL (FT): 785

DRILLING FLUID: ( ) AIR (•) MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ( ) ROTARY ( ) HAMMER ( ) CABLE TOOL ( ) OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0'	40'	20"	16"	None	15 1/2"	.250	
0'	999	14 3/4"	9 5/8"	Thread & Collar	8.921"	36 lbs.	None
947'	1270	8 3/4"	7" - 323'8"	Thread & Collar	6.5"	.188	1/8"
			281'8" Perforated				
			on bottom of liner				

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0'	40'	20"	Cemented	2yds.	Top Pour
0'	999'	14 3/4"	Float and Shoe Cemented to Surface	740	Circulated

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1352	POD NUMBER	1	TRN NUMBER	552944
LOCATION	20S.34E.34.4.1.3			Commercial	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2	2	Soil	○ Y ◉ N	
2	18	16	Caliche	○ Y ◉ N	
18	65	47	Sandy red clay	○ Y ◉ N	
65	78	13	Red clay and gravel	○ Y ◉ N	
78	140	62	Red clay	○ Y ◉ N	
140	920	780	Red and brown shale	○ Y ◉ N	
920	970	50	Red clay and brown shale	○ Y ◉ N	
970	982	12	Sandy Brown shale and sand rock	○ Y ◉ N	
982	999	17	Sandy brown shale and sand rock	○ Y ◉ N	
999	1022	23	Red sandy shale and sand rock	◉ Y ○ N	
1022	1085	63	Santa Rosa sand (coarse)	◉ Y ○ N	
1085	1107	22	Sanda Rosa sand (fine)	◉ Y ○ N	
1107	1128	21	Sand rock (hard)	◉ Y ○ N	
1128	1234	106	Sand (soft)	◉ Y ○ N	
1234	1270	36	Shale and sand rock	◉ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ◉ PUMP ○ AIR LIFT ○ BAILER ○ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 42

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

0' to '999 drilled with mud. 999' to 1270' drilled with air and foam.

Went back in well on 07/29/16 & 07/30/16: Cleaned out & deepened. Installed 280' 8" 7" liner.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Corky Glenn Corky Glenn — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

8/8/16 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1352	POD NUMBER	1	TRN NUMBER	552944
LOCATION	20S.34E.34.4.1.3			Commercial	PAGE 2 OF 2

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Site Selection Results -- 7 sites found

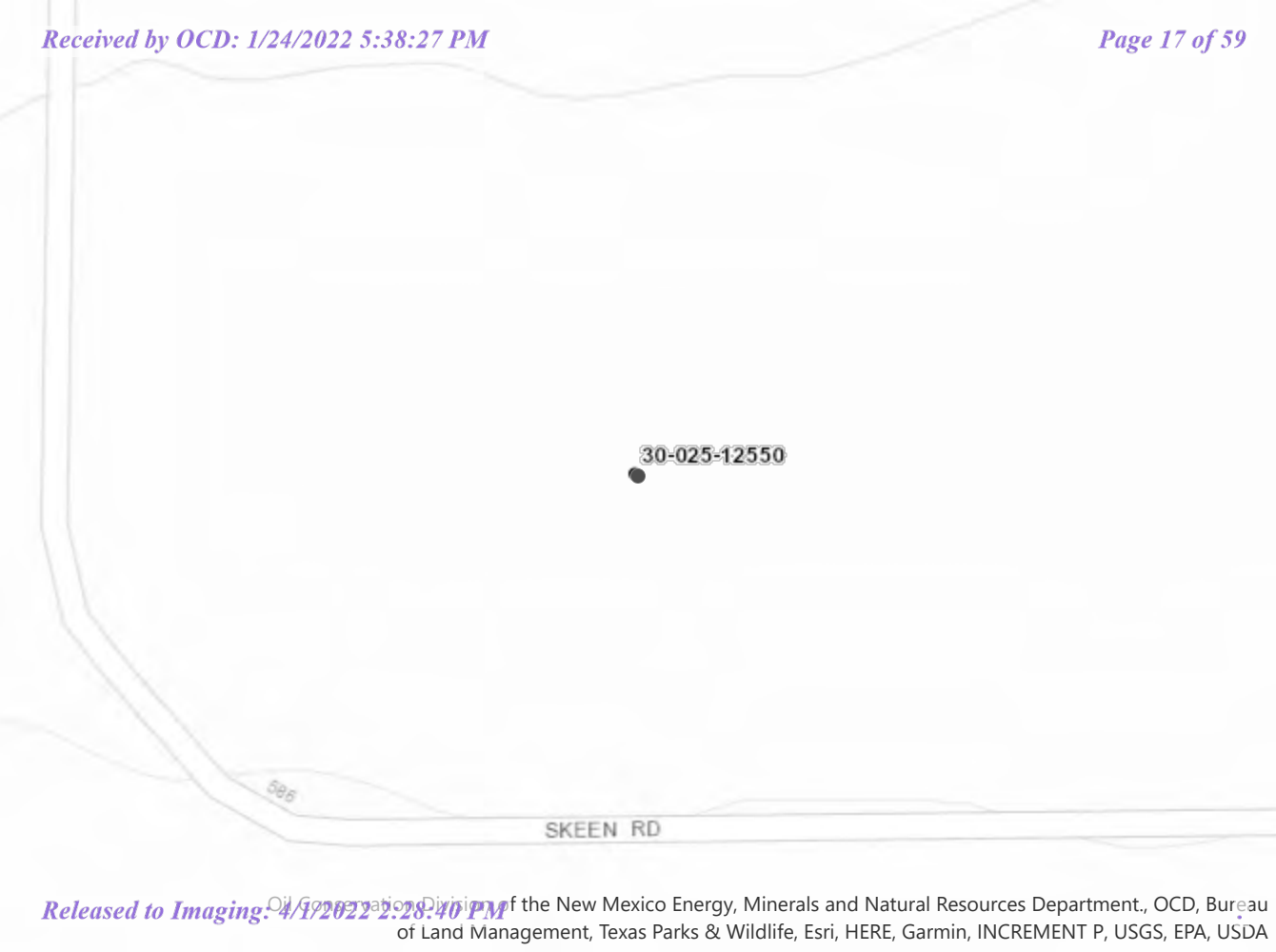
Site name contains string = 20S.34E
Minimum number of levels = 1

Save file of selected sites to local disk for future upload

Data for individual sites can be obtained by selecting the site number below

Agency	Site Number	Site Name	Period of Record		
			Begin Date	End Date	Levels
USGS	323109103323801	20S.34E.34.43421	1972-10-02	2021-01-21	7
USGS	323336103322501	20S.34E.22.222333	1965-11-17	1981-02-26	6
USGS	323345103351101	20S.34E.17.33442	1965-11-16	1996-01-26	6
USGS	323409103321301	20S.34E.14.13343	1968-03-21	1996-02-02	3
USGS	323436103302801	20S.34E.12.44333	1961-03-08	1976-06-11	4
USGS	323436103302802	20S.34E.12.443	1968-03-21	1968-03-21	1
USGS	323529103332501	20S.34E.04.44434	1965-11-17	2015-12-17	7

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News



National Flood Hazard Layer FIRMette

FEMA

103°33'8"W 32°31'58"N

103°32'30"W 32°31'28"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

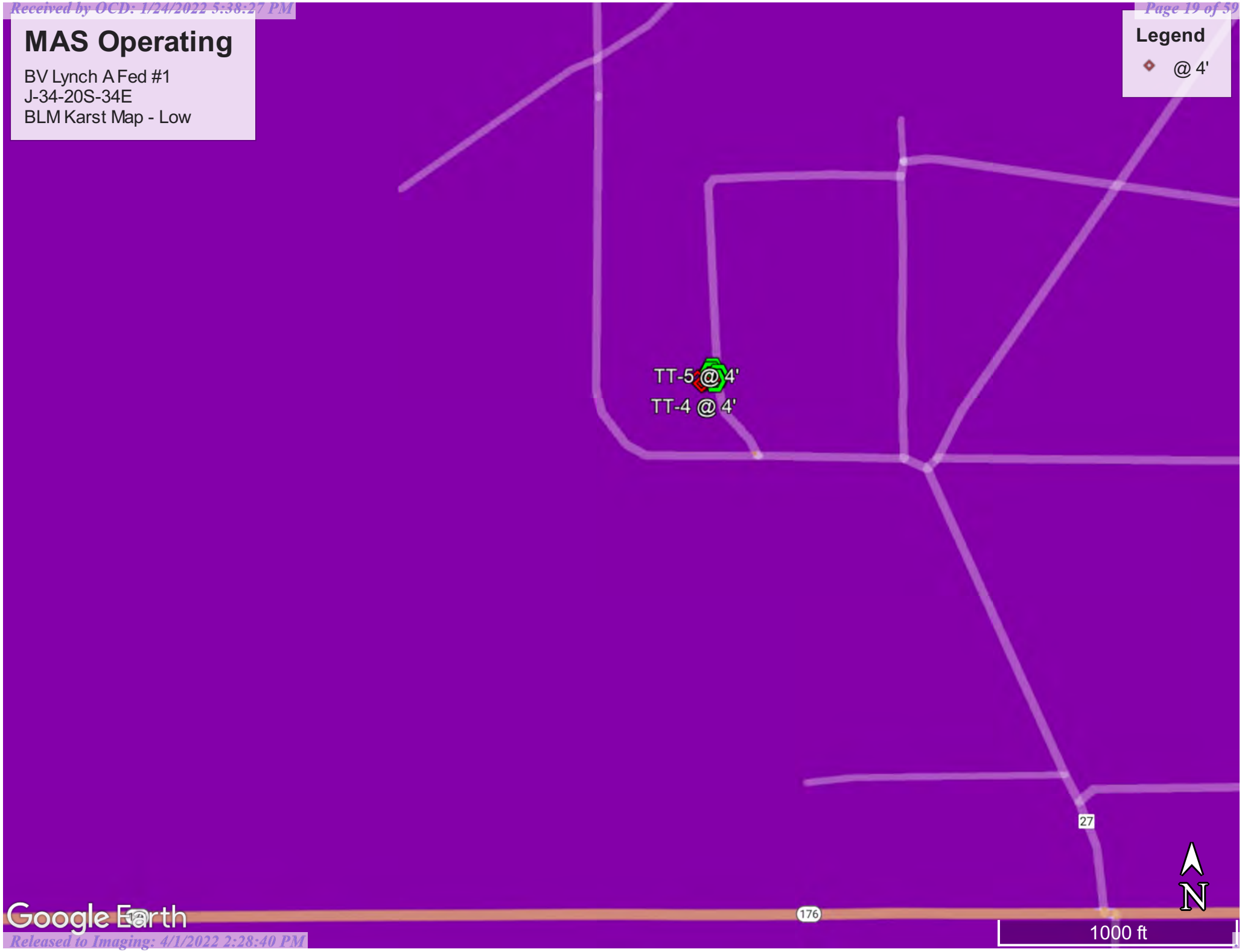
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/19/2022 at 8:59 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

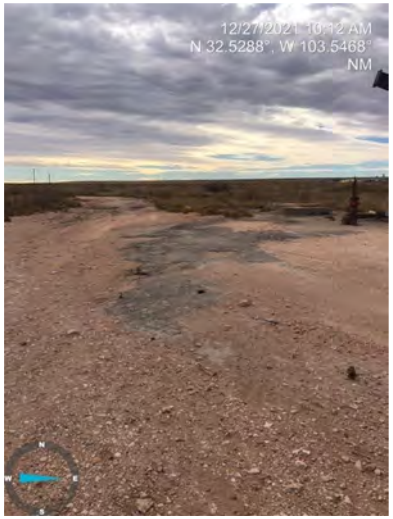
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

MAS Operating

BV Lynch A Fed #1
J-34-20S-34E
BLM Karst Map - Low



MAS Operating – BV Lynch A Fed #1
Excavation & Remediation Photos



MAS Operating – BV Lynch A Fed #1
Excavation & Remediation Photos

MAS Operating – BV Lynch A Fed #1
Excavation & Remediation Photos

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

January 13, 2022

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX: (575) 393-4388

RE: MAS Operating Lynch 1 OrderNo.: 2201048

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 15 sample(s) on 1/4/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-1 1ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 8:00:00 AM
Lab ID: 2201048-001 **Matrix:** SOIL **Received Date:** 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	96	60		mg/Kg	20	1/5/2022 5:08:33 AM	64852
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	110	47		mg/Kg	5	1/10/2022 4:55:18 PM	64845
Motor Oil Range Organics (MRO)	950	240		mg/Kg	5	1/10/2022 4:55:18 PM	64845
Surr: DNOP	80.2	70-130		%Rec	5	1/10/2022 4:55:18 PM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/5/2022 11:37:00 AM	64836
Surr: BFB	84.4	70-130		%Rec	1	1/5/2022 11:37:00 AM	64836
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.023		mg/Kg	1	1/5/2022 11:37:00 AM	64836
Toluene	ND	0.046		mg/Kg	1	1/5/2022 11:37:00 AM	64836
Ethylbenzene	ND	0.046		mg/Kg	1	1/5/2022 11:37:00 AM	64836
Xylenes, Total	ND	0.092		mg/Kg	1	1/5/2022 11:37:00 AM	64836
Surr: 4-Bromofluorobenzene	79.5	70-130		%Rec	1	1/5/2022 11:37:00 AM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-1 4ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 8:20:00 AM
Lab ID: 2201048-002 **Matrix:** SOIL **Received Date:** 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	900	60		mg/Kg	20	1/5/2022 5:45:45 AM	64852
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	34	9.8		mg/Kg	1	1/7/2022 10:14:58 AM	64845
Motor Oil Range Organics (MRO)	98	49		mg/Kg	1	1/7/2022 10:14:58 AM	64845
Surr: DNOP	121	70-130		%Rec	1	1/7/2022 10:14:58 AM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/5/2022 11:57:00 AM	64836
Surr: BFB	90.1	70-130		%Rec	1	1/5/2022 11:57:00 AM	64836
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.025		mg/Kg	1	1/5/2022 11:57:00 AM	64836
Toluene	ND	0.050		mg/Kg	1	1/5/2022 11:57:00 AM	64836
Ethylbenzene	ND	0.050		mg/Kg	1	1/5/2022 11:57:00 AM	64836
Xylenes, Total	ND	0.10		mg/Kg	1	1/5/2022 11:57:00 AM	64836
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	1/5/2022 11:57:00 AM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-1 5ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 8:30:00 AM
Lab ID: 2201048-003 **Matrix:** SOIL **Received Date:** 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	480	60		mg/Kg	20	1/5/2022 5:58:10 AM	64852
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/5/2022 12:05:09 PM	64845
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/5/2022 12:05:09 PM	64845
Surr: DNOP	89.3	70-130		%Rec	1	1/5/2022 12:05:09 PM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/5/2022 12:17:00 PM	64836
Surr: BFB	89.3	70-130		%Rec	1	1/5/2022 12:17:00 PM	64836
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.025		mg/Kg	1	1/5/2022 12:17:00 PM	64836
Toluene	ND	0.049		mg/Kg	1	1/5/2022 12:17:00 PM	64836
Ethylbenzene	ND	0.049		mg/Kg	1	1/5/2022 12:17:00 PM	64836
Xylenes, Total	ND	0.098		mg/Kg	1	1/5/2022 12:17:00 PM	64836
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	1/5/2022 12:17:00 PM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT2 1ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 8:40:00 AM
Lab ID: 2201048-004 **Matrix:** SOIL
Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	77	60		mg/Kg	20	1/5/2022 6:10:34 AM	64852
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/5/2022 12:15:46 PM	64845
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/5/2022 12:15:46 PM	64845
Surr: DNOP	115	70-130		%Rec	1	1/5/2022 12:15:46 PM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/5/2022 12:37:00 PM	64836
Surr: BFB	91.1	70-130		%Rec	1	1/5/2022 12:37:00 PM	64836
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.025		mg/Kg	1	1/5/2022 12:37:00 PM	64836
Toluene	ND	0.050		mg/Kg	1	1/5/2022 12:37:00 PM	64836
Ethylbenzene	ND	0.050		mg/Kg	1	1/5/2022 12:37:00 PM	64836
Xylenes, Total	ND	0.099		mg/Kg	1	1/5/2022 12:37:00 PM	64836
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	1/5/2022 12:37:00 PM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-2 3ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 8:50:00 AM
Lab ID: 2201048-005 **Matrix:** SOIL
Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	120	60		mg/Kg	20	1/5/2022 6:22:58 AM	64852
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/5/2022 12:26:23 PM	64845
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2022 12:26:23 PM	64845
Surr: DNOP	117	70-130		%Rec	1	1/5/2022 12:26:23 PM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/5/2022 12:56:00 PM	64836
Surr: BFB	88.4	70-130		%Rec	1	1/5/2022 12:56:00 PM	64836
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.025		mg/Kg	1	1/5/2022 12:56:00 PM	64836
Toluene	ND	0.050		mg/Kg	1	1/5/2022 12:56:00 PM	64836
Ethylbenzene	ND	0.050		mg/Kg	1	1/5/2022 12:56:00 PM	64836
Xylenes, Total	ND	0.10		mg/Kg	1	1/5/2022 12:56:00 PM	64836
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	1/5/2022 12:56:00 PM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-2 4ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 9:00:00 AM
Lab ID: 2201048-006 **Matrix:** SOIL
Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	230	60		mg/Kg	20	1/5/2022 6:35:23 AM	64852
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/5/2022 12:37:01 PM	64845
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2022 12:37:01 PM	64845
Surr: DNOP	129	70-130		%Rec	1	1/5/2022 12:37:01 PM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/5/2022 1:16:00 PM	64836
Surr: BFB	85.4	70-130		%Rec	1	1/5/2022 1:16:00 PM	64836
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.024		mg/Kg	1	1/5/2022 1:16:00 PM	64836
Toluene	ND	0.049		mg/Kg	1	1/5/2022 1:16:00 PM	64836
Ethylbenzene	ND	0.049		mg/Kg	1	1/5/2022 1:16:00 PM	64836
Xylenes, Total	ND	0.098		mg/Kg	1	1/5/2022 1:16:00 PM	64836
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	1/5/2022 1:16:00 PM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-3 1ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 9:05:00 AM
Lab ID: 2201048-007 **Matrix:** SOIL **Received Date:** 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	1/6/2022 2:03:42 AM	64874
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/5/2022 12:47:39 PM	64845
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/5/2022 12:47:39 PM	64845
Surr: DNOP	90.6	70-130		%Rec	1	1/5/2022 12:47:39 PM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/5/2022 2:15:00 PM	64836
Surr: BFB	84.6	70-130		%Rec	1	1/5/2022 2:15:00 PM	64836
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	1/5/2022 2:15:00 PM	64836
Toluene	ND	0.050		mg/Kg	1	1/5/2022 2:15:00 PM	64836
Ethylbenzene	ND	0.050		mg/Kg	1	1/5/2022 2:15:00 PM	64836
Xylenes, Total	ND	0.099		mg/Kg	1	1/5/2022 2:15:00 PM	64836
Surr: 4-Bromofluorobenzene	78.5	70-130		%Rec	1	1/5/2022 2:15:00 PM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-3 3ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 9:15:00 AM
Lab ID: 2201048-008 **Matrix:** SOIL **Received Date:** 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	1/6/2022 2:40:43 AM	64874
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/5/2022 12:58:17 PM	64845
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/5/2022 12:58:17 PM	64845
Surr: DNOP	166	70-130	S	%Rec	1	1/5/2022 12:58:17 PM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/5/2022 2:35:00 PM	64836
Surr: BFB	90.9	70-130		%Rec	1	1/5/2022 2:35:00 PM	64836
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	1/5/2022 2:35:00 PM	64836
Toluene	ND	0.048		mg/Kg	1	1/5/2022 2:35:00 PM	64836
Ethylbenzene	ND	0.048		mg/Kg	1	1/5/2022 2:35:00 PM	64836
Xylenes, Total	ND	0.097		mg/Kg	1	1/5/2022 2:35:00 PM	64836
Surr: 4-Bromofluorobenzene	80.3	70-130		%Rec	1	1/5/2022 2:35:00 PM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-3 4ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 9:30:00 AM
Lab ID: 2201048-009 **Matrix:** SOIL **Received Date:** 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	1/6/2022 2:53:03 AM	64874
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/5/2022 1:08:57 PM	64845
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2022 1:08:57 PM	64845
Surr: DNOP	88.6	70-130		%Rec	1	1/5/2022 1:08:57 PM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/5/2022 2:55:00 PM	64836
Surr: BFB	89.1	70-130		%Rec	1	1/5/2022 2:55:00 PM	64836
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	1/5/2022 2:55:00 PM	64836
Toluene	ND	0.050		mg/Kg	1	1/5/2022 2:55:00 PM	64836
Ethylbenzene	ND	0.050		mg/Kg	1	1/5/2022 2:55:00 PM	64836
Xylenes, Total	ND	0.099		mg/Kg	1	1/5/2022 2:55:00 PM	64836
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	1/5/2022 2:55:00 PM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-4 1ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 9:40:00 AM
Lab ID: 2201048-010 **Matrix:** SOIL
Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	ND	60		mg/Kg	20	1/6/2022 3:05:23 AM	64874
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/5/2022 1:19:37 PM	64845
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/5/2022 1:19:37 PM	64845
Surr: DNOP	134	70-130	S	%Rec	1	1/5/2022 1:19:37 PM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/5/2022 3:14:00 PM	64836
Surr: BFB	89.6	70-130		%Rec	1	1/5/2022 3:14:00 PM	64836
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.025		mg/Kg	1	1/5/2022 3:14:00 PM	64836
Toluene	ND	0.050		mg/Kg	1	1/5/2022 3:14:00 PM	64836
Ethylbenzene	ND	0.050		mg/Kg	1	1/5/2022 3:14:00 PM	64836
Xylenes, Total	ND	0.099		mg/Kg	1	1/5/2022 3:14:00 PM	64836
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	1/5/2022 3:14:00 PM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-4 3ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 9:55:00 AM
Lab ID: 2201048-011 **Matrix:** SOIL **Received Date:** 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	1/6/2022 3:17:43 AM	64874
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/7/2022 10:38:03 AM	64845
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/7/2022 10:38:03 AM	64845
Surr: DNOP	101	70-130		%Rec	1	1/7/2022 10:38:03 AM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/5/2022 3:34:00 PM	64836
Surr: BFB	90.1	70-130		%Rec	1	1/5/2022 3:34:00 PM	64836
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	1/5/2022 3:34:00 PM	64836
Toluene	ND	0.047		mg/Kg	1	1/5/2022 3:34:00 PM	64836
Ethylbenzene	ND	0.047		mg/Kg	1	1/5/2022 3:34:00 PM	64836
Xylenes, Total	ND	0.094		mg/Kg	1	1/5/2022 3:34:00 PM	64836
Surr: 4-Bromofluorobenzene	80.7	70-130		%Rec	1	1/5/2022 3:34:00 PM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-4 4ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 10:00:00 AM
Lab ID: 2201048-012 **Matrix:** SOIL **Received Date:** 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	1/6/2022 3:30:03 AM	64874
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/5/2022 1:41:11 PM	64845
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2022 1:41:11 PM	64845
Surr: DNOP	104	70-130		%Rec	1	1/5/2022 1:41:11 PM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/5/2022 3:54:00 PM	64836
Surr: BFB	86.2	70-130		%Rec	1	1/5/2022 3:54:00 PM	64836
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	1/5/2022 3:54:00 PM	64836
Toluene	ND	0.049		mg/Kg	1	1/5/2022 3:54:00 PM	64836
Ethylbenzene	ND	0.049		mg/Kg	1	1/5/2022 3:54:00 PM	64836
Xylenes, Total	ND	0.099		mg/Kg	1	1/5/2022 3:54:00 PM	64836
Surr: 4-Bromofluorobenzene	78.1	70-130		%Rec	1	1/5/2022 3:54:00 PM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-5 1ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 10:05:00 AM
Lab ID: 2201048-013 **Matrix:** SOIL **Received Date:** 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	1/6/2022 3:42:23 AM	64874
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/5/2022 1:52:03 PM	64845
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2022 1:52:03 PM	64845
Surr: DNOP	116	70-130		%Rec	1	1/5/2022 1:52:03 PM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/5/2022 4:13:00 PM	64836
Surr: BFB	89.7	70-130		%Rec	1	1/5/2022 4:13:00 PM	64836
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	1/5/2022 4:13:00 PM	64836
Toluene	ND	0.049		mg/Kg	1	1/5/2022 4:13:00 PM	64836
Ethylbenzene	ND	0.049		mg/Kg	1	1/5/2022 4:13:00 PM	64836
Xylenes, Total	ND	0.097		mg/Kg	1	1/5/2022 4:13:00 PM	64836
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	1/5/2022 4:13:00 PM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-5 3ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 10:15:00 AM
Lab ID: 2201048-014 **Matrix:** SOIL **Received Date:** 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	1/6/2022 3:54:44 AM	64874
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/5/2022 2:02:53 PM	64845
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/5/2022 2:02:53 PM	64845
Surr: DNOP	108	70-130		%Rec	1	1/5/2022 2:02:53 PM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/5/2022 4:33:00 PM	64836
Surr: BFB	90.0	70-130		%Rec	1	1/5/2022 4:33:00 PM	64836
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	1/5/2022 4:33:00 PM	64836
Toluene	ND	0.049		mg/Kg	1	1/5/2022 4:33:00 PM	64836
Ethylbenzene	ND	0.049		mg/Kg	1	1/5/2022 4:33:00 PM	64836
Xylenes, Total	ND	0.098		mg/Kg	1	1/5/2022 4:33:00 PM	64836
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	1/5/2022 4:33:00 PM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201048**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: TT-5 4ft
Project: MAS Operating Lynch 1
Collection Date: 12/30/2021 10:30:00 AM
Lab ID: 2201048-015 **Matrix:** SOIL **Received Date:** 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	1/6/2022 4:31:44 AM	64874
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/5/2022 2:13:42 PM	64845
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2022 2:13:42 PM	64845
Surr: DNOP	88.1	70-130		%Rec	1	1/5/2022 2:13:42 PM	64845
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/5/2022 4:53:00 PM	64836
Surr: BFB	86.9	70-130		%Rec	1	1/5/2022 4:53:00 PM	64836
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	1/5/2022 4:53:00 PM	64836
Toluene	ND	0.050		mg/Kg	1	1/5/2022 4:53:00 PM	64836
Ethylbenzene	ND	0.050		mg/Kg	1	1/5/2022 4:53:00 PM	64836
Xylenes, Total	ND	0.099		mg/Kg	1	1/5/2022 4:53:00 PM	64836
Surr: 4-Bromofluorobenzene	80.3	70-130		%Rec	1	1/5/2022 4:53:00 PM	64836

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201048**
13-Jan-22

Client: Safety & Environmental Solutions
Project: MAS Operating Lynch 1

Sample ID: **MB-64852**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **64852**	RunNo: **84950**							
Prep Date: **1/4/2022**	Analysis Date: **1/4/2022**	SeqNo: **2988889**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-64852**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **64852**	RunNo: **84950**							
Prep Date: **1/4/2022**	Analysis Date: **1/5/2022**	SeqNo: **2988890**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Sample ID: **MB-64874**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **64874**	RunNo: **84954**							
Prep Date: **1/5/2022**	Analysis Date: **1/5/2022**	SeqNo: **2989927**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-64874**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **64874**	RunNo: **84954**							
Prep Date: **1/5/2022**	Analysis Date: **1/5/2022**	SeqNo: **2989928**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201048**
13-Jan-22

Client: Safety & Environmental Solutions
Project: MAS Operating Lynch 1

Sample ID: **LCS-64845** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **64845** RunNo: **84959**
Prep Date: **1/4/2022** Analysis Date: **1/5/2022** SeqNo: **2989341** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.4	68.9	135			
Surr: DNOP	4.4		5.000		88.9	70	130			

Sample ID: **MB-64845** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **64845** RunNo: **84959**
Prep Date: **1/4/2022** Analysis Date: **1/5/2022** SeqNo: **2989342** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2201048**

13-Jan-22

Client: Safety & Environmental Solutions

Project: MAS Operating Lynch 1

Sample ID: **mb-64836**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **64836**	RunNo: **84956**
Prep Date: **1/4/2022**	Analysis Date: **1/5/2022**	SeqNo: **2989149** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		83.0	70	130			

Sample ID: **lcs-64836**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **64836**	RunNo: **84956**
Prep Date: **1/4/2022**	Analysis Date: **1/5/2022**	SeqNo: **2989150** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	78.6	131			
Surr: BFB	980		1000		97.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201048**
13-Jan-22

Client: Safety & Environmental Solutions
Project: MAS Operating Lynch 1

Sample ID: **mb-64836**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **64836**	RunNo: **84956**
Prep Date: **1/4/2022**	Analysis Date: **1/5/2022**	SeqNo: **2989156** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.80		1.000		79.8	70	130			

Sample ID: **lcs-64836**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **64836**	RunNo: **84956**
Prep Date: **1/4/2022**	Analysis Date: **1/5/2022**	SeqNo: **2989157** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.6	80	120			
Toluene	0.88	0.050	1.000	0	87.5	80	120			
Ethylbenzene	0.86	0.050	1.000	0	86.2	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.1	80	120			
Surr: 4-Bromofluorobenzene	0.77		1.000		77.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety & Environmental Solutions | Work Order Number: 2201048 | RcptNo: 1

Received By: Isaiah Ortiz 1/4/2022 7:28:00 AM I-Ok

Completed By: Isaiah Ortiz 1/4/2022 8:26:27 AM I-Ok

Reviewed By: JR 1/4/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: TMC 1/4/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Not Present			

Chain-of-Custody Record

Client: Safety & Environmental Solutions

Mailing Address: 703 E. Clinton Hobbs N.M 88240

Phone #: 575-397-0510

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 5 Day

Project Name: MAS Operating Lynch #1

Project #: MAS-21-001

Project Manager: Allen, Bob

Sampler: Sosa, Jerry

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.1°C ± 0°C (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2201048	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
12/30	0800	S	TT-1 1ft	1	Ice	001	X	X									X
	0820	S	TT-1 4ft	1	Ice	002											
	0830	S	TT-1 5ft	1		003											
	0840	S	TT-2 1ft	1		004											
	0850	S	TT-2 3ft	1		005											
	0900	S	TT-2 4ft	1		006											
	0905	S	TT-3 1ft	1		007											
	0915	S	TT-3 3ft	1		008											
	0930	S	TT-3 4ft	1		009											
	0940	S	TT-4 1ft	1		010											
	0955	S	TT-4 3ft	1		011											
12/30	1000	S	TT-4 4ft	1		012	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/30	1630	Sosa Jerry				
12/30	1630				12/30/21	1630
1/3/21	1900			courier	1/4/22	0728

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Safety & Environmental Solutions

Mailing Address: 703 E. Clinton Hobbs N.M 88240

Phone #: 575-397-0510

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 5 Days

Project Name: MAS OPERATING Lynch #1

Project #: MAS-21-001

Project Manager: Allen, Bob

Sampler: Sos, Jerry

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.1°C ± 0°C (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2201048	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
12/30	1005	S	TT-5 1FT	1	Ice	013	X	X									X
S	1015	S	TT-5 3FT	1	Ice	014	X	X									X
12/30	1030	S	TT-5 4FT	1		015	X	X									X

Analysis Request

Remarks:

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/30	1630				12/30/21	1680
1/3/21	1900			Courier	1/4/22	0728

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

January 11, 2022

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX: (575) 393-4388

RE: MAS Operating Lynch 1 OrderNo.: 2201112

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 1/5/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2201112**
Date Reported: **1/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-1 3ft Bottom
Project: MAS Operating Lynch 1
Collection Date: 1/4/2022 9:15:00 AM
Lab ID: 2201112-001 **Matrix:** SOIL **Received Date:** 1/5/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	200	60		mg/Kg	20	1/6/2022 3:37:38 PM	64896
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/7/2022 12:48:04 PM	64866
Motor Oil Range Organics (MRO)	81	47		mg/Kg	1	1/7/2022 12:48:04 PM	64866
Surr: DNOP	119	70-130		%Rec	1	1/7/2022 12:48:04 PM	64866
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2022 2:19:49 PM	64860
Surr: BFB	94.7	70-130		%Rec	1	1/6/2022 2:19:49 PM	64860
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	1/6/2022 2:19:49 PM	64860
Toluene	ND	0.050		mg/Kg	1	1/6/2022 2:19:49 PM	64860
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2022 2:19:49 PM	64860
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2022 2:19:49 PM	64860
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	1/6/2022 2:19:49 PM	64860

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201112**
Date Reported: **1/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-2 3ft Bottom
Project: MAS Operating Lynch 1
Collection Date: 1/4/2022 9:40:00 AM
Lab ID: 2201112-002 **Matrix:** SOIL **Received Date:** 1/5/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	220	60		mg/Kg	20	1/6/2022 3:50:00 PM	64896
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/7/2022 12:58:38 PM	64866
Motor Oil Range Organics (MRO)	74	46		mg/Kg	1	1/7/2022 12:58:38 PM	64866
Surr: DNOP	92.6	70-130		%Rec	1	1/7/2022 12:58:38 PM	64866
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2022 2:43:29 PM	64860
Surr: BFB	96.2	70-130		%Rec	1	1/6/2022 2:43:29 PM	64860
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	1/6/2022 2:43:29 PM	64860
Toluene	ND	0.049		mg/Kg	1	1/6/2022 2:43:29 PM	64860
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2022 2:43:29 PM	64860
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2022 2:43:29 PM	64860
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	1/6/2022 2:43:29 PM	64860

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2201112**
Date Reported: **1/11/2022**

CLIENT: Safety & Environmental Solutions
Client Sample ID: East Wall
Project: MAS Operating Lynch 1
Collection Date: 1/4/2022 10:05:00 AM
Lab ID: 2201112-003 **Matrix:** SOIL **Received Date:** 1/5/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	200	60		mg/Kg	20	1/6/2022 4:02:20 PM	64896
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	11	9.5		mg/Kg	1	1/7/2022 1:09:15 PM	64866
Motor Oil Range Organics (MRO)	71	48		mg/Kg	1	1/7/2022 1:09:15 PM	64866
Surr: DNOP	107	70-130		%Rec	1	1/7/2022 1:09:15 PM	64866
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2022 3:54:03 PM	64860
Surr: BFB	93.9	70-130		%Rec	1	1/6/2022 3:54:03 PM	64860
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	1/6/2022 3:54:03 PM	64860
Toluene	ND	0.048		mg/Kg	1	1/6/2022 3:54:03 PM	64860
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2022 3:54:03 PM	64860
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2022 3:54:03 PM	64860
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/6/2022 3:54:03 PM	64860

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201112**
Date Reported: **1/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: North Wall
Project: MAS Operating Lynch 1
Collection Date: 1/4/2022 10:48:00 AM
Lab ID: 2201112-004 **Matrix:** SOIL **Received Date:** 1/5/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	74	60		mg/Kg	20	1/6/2022 4:14:42 PM	64896
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/7/2022 1:19:53 PM	64866
Motor Oil Range Organics (MRO)	62	47		mg/Kg	1	1/7/2022 1:19:53 PM	64866
Surr: DNOP	103	70-130		%Rec	1	1/7/2022 1:19:53 PM	64866
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/6/2022 4:17:44 PM	64860
Surr: BFB	94.9	70-130		%Rec	1	1/6/2022 4:17:44 PM	64860
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	1/6/2022 4:17:44 PM	64860
Toluene	ND	0.047		mg/Kg	1	1/6/2022 4:17:44 PM	64860
Ethylbenzene	ND	0.047		mg/Kg	1	1/6/2022 4:17:44 PM	64860
Xylenes, Total	ND	0.095		mg/Kg	1	1/6/2022 4:17:44 PM	64860
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/6/2022 4:17:44 PM	64860

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201112**
Date Reported: **1/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: South Wall
Project: MAS Operating Lynch 1
Collection Date: 1/4/2022 11:05:00 AM
Lab ID: 2201112-005 **Matrix:** SOIL
Received Date: 1/5/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	78	60		mg/Kg	20	1/6/2022 4:27:03 PM	64896
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/7/2022 1:41:08 PM	64866
Motor Oil Range Organics (MRO)	48	47		mg/Kg	1	1/7/2022 1:41:08 PM	64866
Surr: DNOP	91.4	70-130		%Rec	1	1/7/2022 1:41:08 PM	64866
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2022 4:41:26 PM	64860
Surr: BFB	91.9	70-130		%Rec	1	1/6/2022 4:41:26 PM	64860
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	1/6/2022 4:41:26 PM	64860
Toluene	ND	0.049		mg/Kg	1	1/6/2022 4:41:26 PM	64860
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2022 4:41:26 PM	64860
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2022 4:41:26 PM	64860
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	1/6/2022 4:41:26 PM	64860

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2201112**
Date Reported: **1/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: West Wall
Project: MAS Operating Lynch 1
Collection Date: 1/4/2022 11:35:00 AM
Lab ID: 2201112-006 **Matrix:** SOIL
Received Date: 1/5/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	75	61		mg/Kg	20	1/6/2022 5:04:05 PM	64896
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	32	9.6		mg/Kg	1	1/7/2022 1:51:47 PM	64866
Motor Oil Range Organics (MRO)	56	48		mg/Kg	1	1/7/2022 1:51:47 PM	64866
Surr: DNOP	89.9	70-130		%Rec	1	1/7/2022 1:51:47 PM	64866
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/6/2022 5:04:58 PM	64860
Surr: BFB	93.1	70-130		%Rec	1	1/6/2022 5:04:58 PM	64860
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	1/6/2022 5:04:58 PM	64860
Toluene	ND	0.046		mg/Kg	1	1/6/2022 5:04:58 PM	64860
Ethylbenzene	ND	0.046		mg/Kg	1	1/6/2022 5:04:58 PM	64860
Xylenes, Total	ND	0.093		mg/Kg	1	1/6/2022 5:04:58 PM	64860
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/6/2022 5:04:58 PM	64860

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201112**
11-Jan-22

Client: Safety & Environmental Solutions
Project: MAS Operating Lynch 1

Sample ID: **MB-64896**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **64896**	RunNo: **85012**							
Prep Date: **1/6/2022**	Analysis Date: **1/6/2022**	SeqNo: **2990942**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-64896**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **64896**	RunNo: **85012**							
Prep Date: **1/6/2022**	Analysis Date: **1/6/2022**	SeqNo: **2990943**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201112**
11-Jan-22

Client: Safety & Environmental Solutions
Project: MAS Operating Lynch 1

Sample ID: **LCS-64866**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **64866**	RunNo: **85006**
Prep Date: **1/5/2022**	Analysis Date: **1/7/2022**	SeqNo: **2991283** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.7	68.9	135			
Surr: DNOP	3.9		5.000		78.9	70	130			

Sample ID: **MB-64866**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **64866**	RunNo: **85006**
Prep Date: **1/5/2022**	Analysis Date: **1/7/2022**	SeqNo: **2991284** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2201112**

11-Jan-22

Client: Safety & Environmental Solutions

Project: MAS Operating Lynch 1

Sample ID: **mb-64860**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **64860**	RunNo: **84982**
Prep Date: **1/5/2022**	Analysis Date: **1/6/2022**	SeqNo: **2990495** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.4	70	130			

Sample ID: **lcs-64860**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **64860**	RunNo: **84982**
Prep Date: **1/5/2022**	Analysis Date: **1/6/2022**	SeqNo: **2990496** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.2	78.6	131			
Surr: BFB	1000		1000		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2201112**

11-Jan-22

Client: Safety & Environmental Solutions

Project: MAS Operating Lynch 1

Sample ID: **mb-64860** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **64860** RunNo: **84982**

Prep Date: **1/5/2022** Analysis Date: **1/6/2022** SeqNo: **2990533** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: **LCS-64860** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **64860** RunNo: **84982**

Prep Date: **1/5/2022** Analysis Date: **1/6/2022** SeqNo: **2990534** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.3	80	120			
Toluene	0.94	0.050	1.000	0	94.0	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.2	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety & Environmental Solutions | Work Order Number: 2201112 | RcptNo: 1

Received By: Sean Livingston 1/5/2022 8:00:00 AM

Completed By: Sean Livingston 1/5/2022 8:11:11 AM

Reviewed By: JA 1/5/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: KPG 1/05/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good				

Chain-of-Custody Record

Client: Safety & Environmental Solution

Mailing Address: 703 E Clinton Hobbs N.M 88240

Phone #: 575-397-0510

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☒ Rush 5 Day

Project Name: MAS operating Lynch #1

Project #: MAS 21-001

Project Manager: Allen Bob

Sampler: Jose Jerry

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.6+0.4=3.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2201112	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
01/04	0915	S	JP-1 3Ft Bottle	1	~~Ice~~	001	X	X									X
	0940	S	JP-2 3Ft Bottle	1	None	002											
	1005	S	East Well	1		003											
	1048	S	North Well	1		004											
	1105	S	South Well	1		005											
01/04	1135	S	West Well	1		006	X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
01/04/22	1600				1/4/22	1600
1/4/22	1900		SCC courier		1/5/22	8:00

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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 74843

CONDITIONS

Operator: MAS OPERATING CO. P. O. Box 52167 Midland, TX 79710	OGRID: 267077
	Action Number: 74843
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	4/1/2022