QUESTA TAILINGS PIPELINE REMOVAL

STAGE 5 WORK PLAN

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY

QUESTA MINE

May 8, 2019

Project #: 476-027-002

SUBMITTED BY: Trihydro Corporation

707 West 1st Street, Casper, WY 82601

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1.0 INTRODUCTION

Chevron Mining Inc. (CMI) submitted the revised "Questa Tailings Pipeline Removal MMD/NMED Work Plan, Chevron Environmental Management Company, Questa Mine" (Removal Work Plan) (Trihydro 2017) to New Mexico Energy, Minerals and Natural Resources Department (EMNRD), Mining and Minerals Division (MMD), New Mexico Environmental Department's (NMED) Groundwater Bureau and U.S. Environmental Protection Agency, Region 6 (USEPA) on May 19, 2017. Approval for the Removal Work Plan was received from MMD and NMED on June 5, 2017 and from USEPA on June 14, 2017. The Removal Work Plan provides an overarching plan for the removal of the Questa tailings pipeline. The Removal Work Plan states that specific work plans will be developed to detail the removal plans for individual segments of the pipeline.

The pipeline removal project has been divided into eight stages. Stage 1 activities entailed the removal of HDPE and steel pipe from the existing tailings facility. Stage 1 work was performed solely under the process described in the Removal Work Plan. Stage 1 work commenced July 10, 2017 and was completed July 24, 2017. Stage 2 through Stage 8 work activities will be conducted under the Removal Work Plan as well as individual stage specific work plans. Stage 2 work commenced on November 20, 2017 and was completed June 28, 2018. Stage 3 work commenced on January 21, 2019 and is in progress with a majority of pipe removed and disturbed areas stabilized and ready for seeding. Stage 4 work commenced on February 21, 2019 and is in progress with a majority of pipe removed and disturbed areas stabilized and ready for seeding. Stage 6 work commenced on March 23, 2019 and is in progress with Segment 6.1 and 6.4 piping removed. Stages 2 through 8 are outlined in Table 1-1 and are not anticipated to be completed in number order. The segment quantities in Table 1-1 have been updated from those presented in earlier work plans.

This document represents the individual plan for Stage 5 removal of the tailings pipeline. The work identified in this plan will result in the removal or grouting of approximately 37,000 ft. of pipe. The pipe will be removed from within the New Mexico Department of Transportation (NMDOT) right of way and with a lesser amount from U.S. Forest Service (USFS) property also within NMDOT right of way, thereby limiting the number of additional permits and access agreements required.

TABLE 1-1. PIPELINE SEGMENT AND STAGE IDENTIFICATION

Pipeline Segment Description	Approximate Length of Segment (feet)	Stage
Tailing Facility	10,000	1
Columbine Wells Area	4,000	2
Tailing Facility Entrance	2,800	2
Corny's Corner hillside	1,200	2
Singleton's Cut	2,900	2
Robinson's Property	850	2
East of Molycorp baseball field	1,400	2
Upstream of the lower Dump Sump	1,600	2
Pressure vessels to underground	500	3
East of Middle Pile	1,000	3
Goat Hill Entrance Area	2,350	3
Bear Cut	2,500	3
USFS Office Area	3,200	4
Forest Service Property west of Molycorp field	950	4
East of Sulphur gulch	**1,000**	**5**
West of Sulphur gulch	**1,100**	**5**
Sugar Shack South	**4,000**	**5**
1st Road Crossing (East Hwy 38 road)	**200**	**5**
Columbine Curve	**1,400**	**5**
Columbine Park Entrance-Downstream of 1st River Crossing	**600**	**5**
2nd Road Crossing	**400**	**5**
Admin Section	**1,700**	**5**
Between Goat Hill and Bear Cut	**2,700**	**5**
3rd Road Crossing	**700**	**5**
Rock Wall (Between Bear Cut and Forest Service) (aka "Rock and Hard Place")	**2,600**	**5**
Lower Embargo Road Crossing and Embargo Road	**1,100**	**5**
Mill Raw Water Line	**200**	**5**
1st River Crossing (by Columbine Park)	120	6
2nd River Crossing (aka Thunder Bridge)	210	6
3rd River Crossing	190	6
Rael Property	550	6
Elevated Trestle	2,160	7
Lower Dump Sump	0	8

2.0 AGENCY PERMITS AND NOTIFICATIONS

The bulk of Stage 5 activities will be covered by the MMD Mining Act Permit TA001RE, Revision 96-1 and NMED Discharge Permit DP-933. Any historic tailing spills encountered during the pipeline removal will be removed pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Administrative Order on Consent for Removal Actions (Removal AOC), Docket No. 06-09-12.

Additional permits/notifications required may include:

- An asbestos notification form under the National Emission Standards for Hazardous Air Pollutants (NESHAP) submitted to the NMED Air Quality Bureau (AQB) will be filed before any asbestos removal is undertaken. The pipeline and associated structures have been sampled for the presence of asbestos and lead under the guidelines presented in the Removal Work Plan. Stage 5 piping was found to be non-detect for asbestos at the locations sampled during August 2017 sampling events.
- Consultation with the United States Fish and Wildlife Service (USFWS) and/or the New Mexico Department of Game and Fish (NMDGF) to ensure compliance with the Threatened and Endangered Species Act (USFWS 1973), Migratory Bird Treaty Act (USFWS 1918), and the Bald and Golden Eagle Protection Act (U.S.C. 1940). Response to this consultation request was received on April 6, 2018.
- Coordination with USFS for access, preservation of ditches, and/or trees that may be affected for that portion of Stage 5 that is located on USFS owned lands.
- A Storm Water Pollution Prevention Plan (SWPPP) has been developed for coverage under the Construction General Permit. The Notice of Intent (NOI) was submitted on January 7, 2019 and authorization from EPA was received on January 21, 2019.
- Roadway work permits will be obtained before work within New Mexico Department of Transportation (NMDOT) right of way begins along NM-38, Embargo Rd, and NM-522. The NMDOT Environmental Clearance Request was submitted on May 16, 2018. Entact will complete the NMDOT Roadway Work Permits which also include environmental clearances for Stage 5 pipeline segments prior to commencement of work in these areas. General traffic provisions are included in Section 3.15 for each pipeline segment and work area.
- A Preconstruction Notice (PCN) for the entire pipeline was submitted to the United States Army Corps of Engineers (USACE) on Feb 4, 2019 and is pending approval.
- A historic structures survey was completed for the pipeline area and submitted to the New Mexico Historic Preservation Division (NMHPD) of the New Mexico Department of Cultural Affairs and MMD on May 29, 2018.

- MMD has consulted with NMHPD and received a letter indicating NMHPD's concurrence with the recommendations of eligibility and effects proposed in the survey report with two exceptions:
  - HCPI 44846 (The Embargo Ditch) the SHPO considers this acequia as eligible to the National Register of Historic Places (NRHP) under Criteria A and C at the local and state level. Stage 5 pipeline work areas are in close proximity to this acequia, however, planned pipeline removal activities are not anticipated to impact this Acequia.
  - HCPI 44847 (Acequia Del Molina Ditch). The SHPO considers the NRHP eligibility of this resource as undetermined at this time, further research regarding the history, construction characteristics, and geographic extent of this ditch will be required in order to determine NRHP eligibility, however Stage 5 pipeline removal work areas do not have a close proximity to this acequia and pipeline removal activities are not anticipated to impact this Acequia.
- Notification to the Village of Questa and Town of Red River regarding changes in traffic flow due to work along NM-38 and Embargo Rd.

Work will not begin until approval to proceed has been received.

3.0 STAGE 5 AREAS

A description of the areas included in the Stage 5 pipeline removal plan are illustrated below in Table 3-1. Figure 3-1 provides an overall view of the Stage 5 project areas. Detailed views of individual segments are included as Figures 3-2 through 3-17.

TABLE 3-1. AREAS INCLUDED IN STAGE 5 PIPELINE REMOVAL PLAN

Pipeline Segment Description	Approximate Length of Segment (feet)	Seasonal Considerations or Preferred Months (Alternative 1)	Above (A) or Underground (U)?	CMI Ownership?	Figure
5.01: East of Sulphur Gulch	1,000	Outside of winter conditions	U	Y	3-2
5.02: West of Sulphur Gulch	1,100	Outside of winter conditions	A	Y	3-3
5.03: Sugar Shack South	4,000	Outside of winter conditions	A	Y	3-4, 3-5, 3-6, 3-7
5.04: 1st Road Crossing (East Hwy 38 road)	200	Outside of winter conditions	U within culvert	N*	3-7
5.05A: Columbine Curve	1,418	Outside of winter conditions	A	N	3-7
5.05B: Columbine Park Entrance	600	Outside of Winter Conditions	U	N*	3-8
5.05C & 5.06: 2nd Road Crossing	400	Outside of winter conditions	U within culvert	Y	3-9
5.07: Admin Section	1,700	Outside of winter conditions	A	Y	3-9, 3-10
5.08: Between Goat Hill and Bear Cut	2,700	Outside of winter conditions	A	Y	3-11, 3-12
5.09: 3rd Road Crossing	700	Outside of winter conditions	U within culvert	N*	3-13
5.10: Rock Wall (Between Bear Cut and Forest Service) (aka “Rock and Hard Place”)	2,600	Outside of winter conditions	A	N	3-13, 3-14, 3-15
5.11: Lower Embargo Road Crossing	1,100	Outside of winter conditions	U	N	3-16
5.12: Mill Raw Water Line	200	Outside of winter conditions	U	Y	3-17
Underground Structure	100	Outside of Winter Conditions	A	Y*	3-5

* Pipeline segment begins on either CMI or USFS property but ends on the other entity’s property. See 3.1 – 3.13 for more detail

3.1 EAST OF SULPHUR GULCH

The pipeline segment titled East of Sulphur Gulch (Segment 5.01) is located on Chevron property between station numbers 7+38 and 17+40 and is between mile marker 6.7 and 6.8 of NM-38. The pipe in this section starts just inside the west gate of former Mill area (where Segment 3.1 terminated) and ends where the pipe surfaces to the west of the entrance to the Lower Sulphur Gulch extraction system. This section is approximately 1,000 linear feet and contains two pipe runs. This section is primarily underground with only 80 feet of pipe above ground or less than two feet below ground surface. Details for this section can be found on Figure 3-2. This section is scheduled for grouting and abandonment in place. The grouting plan can be found in Section 4.1. The above ground pipe will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017).

3.2 WEST OF SULPHUR GULCH

The West of Sulphur Gulch pipeline segment (Segment 5.02) is located on Chevron property between station numbers 17+40 and 28+50 and is between mile marker 6.5 and 6.7 of NM-38. The pipe in this segment starts where Segment 5.01 ends and where Segment 3.2 (already removed) began on the short dirt road that branches off of Highway 38. Details of this segment can be found on Figure 3-3. The West of Sulphur Gulch segment is approximately 1,100 linear feet and consists of two pipe runs. The pipe and associated structures in this segment will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Quantities of demolition materials can be found on Table 4-2.

3.3 SUGAR SHACK SOUTH

Sugar Shack South (Segment 5.03) is a pipeline segment located on Chevron property between station numbers 36+00 and 76+00 and is between mile marker 5.5 and 6.2 of NM-38. The pipe in this segment begins where Segment 3.2 terminated, continues past the Moly Adit onto the dirt road north of Highway 38 and ends where the dirt road meets Highway 38 again. This segment is approximately 4,000 linear feet and contains two pipe runs. The pipe in this segment will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Demolition material quantities can be found on Table 4-2. Details of this segment can be found on Figures 3-4, 3-5, and 3-6.

3.4 1ST ROAD CROSSING (EAST HWY 38 ROAD)

The segment titled 1st Road Crossing (Segment 5.04) can be found between station numbers 76+00 and 78+00 and is between mile marker 5.5 and 5.4 of NM-38. This section begins on Chevron property where Sugar Shack South ends and ends on USFS lands after the bend structure on the south side of Highway 38. Details of this segment can be found

on Figure 3-7. The pipe and associated structures in this segment will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Demolition material quantities can be found on Table 4-2.

3.5 COLUMBINE CURVE

Columbine Curve (Segment 5.05A) is located on USFS lands between station numbers 78+00 and 91+68 and is between mile marker 5.4 and 5.0 of NM-38. The pipe in 5.05A begins where Segment 3.4 terminates (just after the road crossing), includes the sharp curve east of the Columbine campground and the camp, and terminates at the east end of the bridge structure in Stage 6 (Segment 6.2). This segment is approximately 1,400 linear feet and contains two pipe runs. The pipe and associated structures will be removed in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Details of this segment can be found on Figure 3-7 and estimated demolition material quantities can be found on Table 4-2.

3.6 COLUMBINE PARK ENTRANCE

The Columbine Park Entrance (Segment 5.05B) is located on Chevron property between station numbers 92+88 and 99+00. The pipe in this segment is underground and runs from the east side of the Columbine Campground entrance, west under the entrance and along the shoulder of Highway 38 near mile marker 5.2. The segment terminates where the pipe surfaces on the dirt road leading into the Columbine Wells area; pipe to the west of where it surfaces was removed in Stage 2. The segment is approximately 600 linear feet and contains two runs of pipe. This segment is scheduled for grouting and abandonment in place. Details for the grouting can be found in Section 4.1 and details for this segment can be found on Figure 3-8. No demolition materials are anticipated for this segment.

3.7 2ND ROAD CROSSING

The 2nd Road Crossing segment (Segments 5.05C and 5.06) is located on Chevron property between station numbers 139+59 and 143+50 and is between mile marker 4.2 and 4.3 of NM-38. Segment 5.05C runs from the end of the Thunder Bridge segment (Stage 6, Segment 6.3) to the turn boxes on the south side of the road. Segment 5.06 runs from turn boxes on the south side of the road to the turn boxes on the north side of Highway 38. The Second Road Crossing segment is approximately 400 linear feet and contains two pipe runs. The pipe and associated structures will be removed in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Details of this segment can be found on Figure 3-9 and estimated demolition material quantities can be found on Table 4-2. For simplicity, this segment is included with the Admin Section on the figure.

3.8 ADMIN SECTION

The Admin Section (Segment 5.07) is located on Chevron property between station numbers 143+50 to 160+17 and is between mile marker 4.0 and 4.2 of NM-38. The pipe in this segment begins where Segment 5.06 ends on the north side of the road and terminates at the dirt road where Segment 3.3 began. This segment is approximately 1,700 linear feet and contains two pipe runs. The length of this segment spans two figures (Figure 3-9 and 3-10). This segment consists of above ground pipe as well as an elevated trestle. All pipe and associated structures will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017).

3.9 BETWEEN GOAT HILL AND BEAR CUT

The segment identified as Between Goat Hill and Bear Cut (Segment 5.08) is located on Chevron property between station numbers 181+49 and 208+00 and is between mile marker 3.0 and 3.5 of NM-38. As the name implies, the pipe in this segment is between the entrance to Goat Hill and the dirt road east entrance to the Bear Cut area (Stage 3). Details for this segment can be found on Figures 3-11 and 3-12. This section is approximately 2,700 linear feet. The first 150 feet (station 181+49 to 183+00) has three runs of pipe. The remaining portion of this segment appears to have two pipe runs. All pipe and associated structures will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017).

3.10 3RD ROAD CROSSING

The 3rd Road Crossing segment (Segment 5.09) runs from station number 230+00 to 237+00 and is between mile marker 2.5 and 2.6 of NM-38. The pipe in this segment begins on Chevron property at the Bear Cut west exit and ends on USFS lands where the pipe exits on the south side of Highway 38. This 700 linear foot segment contains two pipe runs and crosses under Highway 38 at station number 236+00. Details of this segment can be found on Figure 3-13. All pipe and associated structures will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Demolition material quantities can be found on Table 4-2.

3.11 ROCK WALL

The Rock Wall (Segment 5.10, also known The Rock and a Hard Place) is found on USFS lands between station numbers 237+00 and 263+00 and is between mile marker 2.0 and 2.5 of NM-38. Pipe in this segment begins where 5.09 ends (after crossing Highway 38) and ends at the "USFS bridge" segment from Stage 6 (Segment 6.4). Details of this segment are provided on Figures 3-14 and 3-15. This is a 2,600 linear foot section with two pipe runs located between Highway 38 and the Red River. All pipe and associated structures will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Demolition material quantities can be found on Table 4-2.

3.12 LOWER EMBARGO ROAD CROSSING AND EMBARGO ROAD

The Lower Embargo Road Crossing and Embargo Road segment (Segment 5.11) is located between station numbers 398+58 to 409+90 and crosses NM-522 at mile marker 19.9. Pipe in this segment begins on private property (Segment 6.1), crosses Highway 522, continues under Embargo Road, and terminates back on Chevron property in a location known locally as "Corny's Corner." This segment consists of four 1,132-foot-long underground pipes and three other pipe runs of unknown length. This pipe is to be grouted and abandoned in place. Details for this segment can be found on Figure 3-16. It is not anticipated that any demolition materials will be generated for this segment.

3.13 MILL RAW WATER LINE

The Mill Raw Water Line (Segment 5.12), while not part of the tailing pipeline, has been included in this work plan to facilitate approval for grouting and abandoning it in place. The Mill Raw Water Line runs from the former Mill area, underneath Highway 38 at around mile marker 7.2 and into the inlet pond south of Highway 38. This segment is on Chevron property and is comprised of approximately 200 feet of 16-inch, underground steel pipe. Details of this segment can be found on Figure 3-17. It is not anticipated that any demolition materials will be generated for this segment.

3.14 STEEL VAULT STRUCTURE

The steel vault structure called out on Figure 3-5 is not part of the tailings pipeline or tailings pipeline removal project but has been included in this work plan to facilitate approval for grouting and abandonment it in place. Onsite investigations concluded that a capped, 5-inch pipe extends from the vault south beneath NM-38. Removal of the vault and pipe would necessitate closing the road. Chevron abandonment standards, for piping that crosses roads, state that grouting is the only acceptable abandonment procedure. Grouting and abandoning of this small line will be completed under this work scope while grouting equipment is on site and available. It is not anticipated that any demolition materials will be generated for this segment.

3.15 STAGE 5 TRAFFIC CONTROL

The pipeline abandonment, pipeline removal, and site restoration phases of Segments 5.01 through 5.09 and 5.11 will require the application for, and approval of an NMDOT Shoulder Work Permit. The Shoulder Work Permit application will include a traffic control plan illustrating the following controls: shoulder taper using channelizer drums; highway signage on each approach; tapered jersey barriers to protect open excavations overnight; and the use of an attenuator truck to protect personnel, equipment, and materials as work progresses along the Segment.

The pipeline removal and site restoration phases of Segment 5.10 will require the application for and approval of an NMDOT Lane Closure Permit. The Lane Closure Permit application will include a traffic control plan illustrating the following controls: shoulder taper using channelizer drums; highway signage on each approach; pilot car and flagger operation; and the use of an attenuator truck to protect personnel, equipment, and materials as work progresses along the segment. It is not anticipated that any additional traffic control operations or devices will be required for the pipeline abandonment phase of Segment 5.12 as the pipe termination points are located outside of the NMDOT right-of-way. Additional construction details can be found in Appendix A.

NMDOT has stated a preference for providing environmental clearance, shoulder work permits and lane closure permits on a segment by segment basis rather than a project wide permit. All necessary NMDOT permits will be obtained prior to commencement of work on each segment.

4.0 REMOVAL ACTIVITIES

Prior to Stage 5 pipe removal activities, the pipe and associated structures were sampled and analyzed for lead based paint and asbestos using the methods detailed in the Removal Work Plan. Results from analysis showed that lead based paint was used to coat piping along the alignment. Concentrations of lead ranged between 120 mg/kg and 670 mg/kg along Stage 5 pipe alignments. Results from asbestos sampling and analysis showed non-detect along the Stage 5 alignment for the locations sampled. Sample locations and results across the entire pipeline alignment are shown in figures 4-1 and 4-2. Pertinent Lead and Asbestos sampling results are shown in Table 4-1. Pipe or pipeline structures found to contain lead-based paint or asbestos will be disposed of according to State and Federal requirements as well as Chevron's Third-Party Waste Stewardship (TWS) requirements. A complete data set of lead and asbestos analytical results can be found in Appendix B.

TABLE 4-1. PERTINENT LEAD AND ASBESTOS ANALYTICAL RESULTS

Sample Identification	Pipeline Segment Sample Location	Date Sampled	Asbestos Analytical Result	Lead Analytical Result
A182817	West of Sulphur Gulch	8/28/2017	Non-Detect	Non-Detect
A182917	Admin Section	8/29/2017	Non-Detect	Non-Detect
A382817	Sugar Shack South	8/28/2017	Non-Detect	Non-Detect
A382917	Between Goat Hill & Bear Cut	8/29/2017	Non-Detect	Non-Detect
A482817	Sugar Shack South	8/28/2017	Non-Detect	Non-Detect
A582917	3rd Road Crossing	8/29/2017	Non-Detect	Non-Detect
A682917	Rockwall	8/29/2017	Non-Detect	Non-Detect
A782817	Admin Section Near Thunder Bridge	8/28/2017	Non-Detect	Non-Detect
G182817	1st Road Crossing	8/28/2017	Non-Detect	Non-Detect
G282817	1st Road Crossing	8/28/2017	Non-Detect	Non-Detect
G382817	2nd Road Crossing	8/28/2017	Non-Detect	Non-Detect
G382917	3rd Road Crossing	8/29/2017	Non-Detect	Non-Detect
G482817	2nd Road Crossing	8/28/2017	Non-Detect	Non-Detect
G482917	3rd Road Crossing	8/29/2017	Non-Detect	Non-Detect
L182817	**West of Sulphur Gulch**	**8/28/2017**	**Non-Detect**	**540 mg/kg**
L182917	**Admin Section**	**8/29/2017**	**Not Sampled**	**670 mg/kg**
L382817	**Sugar Shack South**	**8/28/2017**	**Not Sampled**	**590 mg/kg**
L382917	**Between Goat Hill & Bear Cut**	**8/29/2017**	**Not Sampled**	**480 mg/kg**
L482817	**Sugar Shack South**	**8/28/2017**	**Not Sampled**	**570 mg/kg**
L582917	**3rd Road Crossing**	**8/29/2017**	**Not Sampled**	**280 mg/kg**
L682917	**Rockwall**	**8/29/2017**	**Not Sampled**	**120 mg/kg**
L782817	**Admin Section Near Thunder Bridge**	**8/28/2017**	**Not Sampled**	**550 mg/kg**
PL182917	3rd Road Crossing	8/29/2017	Non-Detect	Non-Detect

Utility locates and any necessary surveying will be conducted prior to pipe removal activities. It is anticipated that Stage 5 pipe removal activities will require lane closures during the removal of certain pipeline segments, however all lane closures will be negotiated with the pertinent stakeholders prior to undertaking any closure activities.

Pipe removal will be conducted under the guidelines specified under Section 4.1 of the Removal Work Plan (Trihydro 2017). Stage 5 pipeline areas are primarily located on Chevron property and USFS property within NMDOT right of way.

The majority of Stage 5 pipeline is above the surface. The pipe will be removed by separating the pipe at its couplings. In areas where de-coupling is impractical the pipe will be cut using a hydraulic shear mounted on an excavator. The pipe will then be loaded and trucked to an approved disposal facility.

Structures such as pipe couplings, anchor structures, pipe bend structures, and concrete thrust blocks will be removed in accordance with Section 4.2 of the Removal Work Plan (Trihydro 2017). All waste will be disposed of according to the methods outlined in Sections 2.3.3 and 4.0 in the Removal Work Plan.

4.1 GROUTING PLAN

Pipeline segments in areas where excavation and removal is not practical, either due to the depth of the pipe or its proximity to underground utilities, will be pressure grouted and abandoned in place. Pressure grouting will consist of daylighting the pipeline segment ends and drilling vent holes to inject the grout mixture. The distance between vent holes is typically every 300 feet, however different circumstances and mixes of grout allow greater distances between injection points and vents. When practical the pipe will be grouted from the downslope ends to ensure that the grout completely fills the pipeline segment and does not leave air pockets within the pipeline. Abandoned pipeline segment ends will be covered using clean fill material and graded to match the surrounding area. Disturbed soils will be revegetated using the seed mixture outlined in Table 5-1, or per requirements of NMDOT for disturbance within their right of way. The Village of Questa endorses pressure grouting abandoned pipeline segments within the village boundaries.

It is anticipated that the following pipeline segments will be pressure grouted:

- East of Sulphur Gulch. This section of the pipeline is 2 or more feet below ground surface and within the DOT right of way. Removal of this section of pipe is problematic due the limited work space, presence of utilities (high pressure gas), exposure to talus falling from adjacent slopes, and exposure to traffic in the area.

- Columbine Park Entrance. The pipe in this location is 2 or more feet below ground surface and within the DOT right of way. Presence of utilities (electrical) are possible within the work zone. Removal of this pipe would require temporary closure to the Columbine Park entrance, removal of paving in the entrance, removal of NM-38 shoulder, and exposure of workers to excess traffic hazards.
- Lower Embargo Road Crossing and Embargo Road. The pipeline lies within the Embargo road right of way and crosses NM-522 at a depth up to 14 feet below ground surface. Excavation of this pipe would necessitate the closure of Embargo Road and NM-522 for an extended period of time. The Village of Questa and NMDOT support the grouting of this section. Chevron will provide the Village of Questa with survey data for the pipes that are abandoned in place in this segment. This survey will be conducted following the grouting process to ensure the best accuracy.
- Mill Raw Water Line. Although not part of the tailing pipeline removal infrastructure, CMI wishes to complete this scope in conjunction with pipeline grouting activities. The raw water line crosses beneath NM-38 at an unknown depth greater than 2 feet. Removal of this section would require closure of NM-38 for an extended period.
- Steel Vault Structure. Although not part of the tailing pipeline infrastructure, CMI wishes to complete this scope in conjunction with pipeline grouting activities. A capped 5-inch pipe from the steel vault crosses beneath NM-38 at an unknown depth greater than 2 feet. Removal of this section would require closure of NM-38 for an extended period.

Approximate quantities of material to be removed are detailed in Table 4-2.

TABLE 4-2. QUANTITIES OF DEMOLITION MATERIALS

Pipeline Segment Description	Approximate Quantity of Pipe to be Removed (feet)	Approximate Quantity of Pipe to be Grouted (feet)	Station Numbers	Approximate Quantity of Concrete (tons)	Approximate Quantity of Steel (tons)
5.01: East of Sulphur Gulch	80	1,920	7+38 through 17+40	-	-
5.02: West of Sulphur Gulch	2,200	-	17+40 through 28+50	15	-
5.03: Sugar Shack South	8,000	-	36+00 through 76+00	50	1.2
5.04: 1st Road Crossing (East Hwy 38 road)	400	-	76+00 through 78+00	6	0
5.05A: Columbine Curve	2,736	-	78+00 through 91+68	55	-
5.05B: Columbine Park Entrance	-	1,224	92+88 through 99+00	-	-
5.05C & 5.06: 2nd Road Crossing	782	-	139+59 through 143+50	-	0
5.07: Admin Section	3,334	-	143+50 through 160+17	27	0.5
5.08: Between Goat Hill and Bear Cut	5,550	-	181+49 through 208+00	50	0.7
5.09: 3rd Road Crossing	1,400	-	230+00 through 237+00	19	0
5.10: Rock Wall (Between Bear Cut and Forest Service) (aka “Rock and Hard Place”)	5,200	-	237+00 through 263+00	68	1
5.11: Lower Embargo Road Crossing	-	4,528	398+58 through 409+90	-	-
5.12: Mill Raw Water Line	-	200	-	-	-
Steel Vault Structure	-	100	-	-	-

5.0 RECLAMATION

Areas disturbed during pipe removal, tailing removal, and other demolition activities conducted under this work plan will be reclaimed according to the procedures outlined in Section 4.2.10 of the Removal Work Plan and, where required, to meet NMDOT specifications (Trihydro 2017). The disturbed pipeline right of way will be regraded to match the natural grade of the area or to meet the needs of future planned land use. Historic berm structures that run alongside much of the Stage 5 alignment are recommended to be left in place as they do not negatively impact the surrounding environment. Removal and regrading of historic berms would entail a much larger disturbance area. Clean fill, if necessary, will be imported from previously approved borrow sources. A map indicating the locations of borrow material is included as Appendix C.

Once the grading has been completed, disturbed areas will be reseeded using the mix detailed in Table 5-1. An alternate seed mix is also included on Table 5-1 and may be used on private properties depending upon the anticipated land use or if availability of certain seed species is limited. The seed mix may be negotiated with the proper regulatory agencies and stakeholders based on the area of application and in order to meet NMDOT seeding specifications.

TABLE 5-1. SEED MIXTURE

Grasses	Scientific Name	Drill Seeding lbs/acre	Hydroseeding lbs/acre
Western Wheatgrass, var. Arriba	*Pascopryum smithii*	4.1	8.2
Slender Wheatgrass, var. San Luis	*Elymus trachycaulus*	1.7	3.4
Bluebunch Wheatgrass, var. Goldar	*Pseudoroegneria spicata*	2.3	4.6
Blue Grama, var. Hachita	*Bouteloua gracilis*	0.5	1.0
Arizona Fescue, var. Redondo	*Festuca arizonica*	0.7	1.4
Forbs			
Western Yarrow	*Achillea millefolium*	0.15	0.3
Rocky Mountain Penstemon, var. Bandera	*Penstemon strictus*	1.2	2.4
Prairie Coneflower	*Ratibida columnifera*	0.8	1.6
Tufted Evening Primrose	*Oenothera speciosa*	0.15	0.3
Shrubs			
Mountain Big Sagebrush, var. Hobble Creek	*Artemisia tridentata var vaseyana*	0.3	0.6
Apache Plume	*Fallugia paradoxa*	0.3	0.6
Alternative Grasses			
Basin Wildrye, var. Magnar	*Leymus cinereus*	2.1	4.2
Sand Dropseed	*Sporobolus cryptandrus*	0.06	0.12
Prairie Junegrass	*Koeleria macrantha*	0.1	0.2
Alternative Forbs			
Scarlet Globemallow	*Sphaeralcea coccinea*	0.5	1.0
Hairy False Goldenaster	*Heterotheca villosa*	0.3	0.6
Alternative Shrubs			
Woods Rose	*Rosa woodsii*	1.5	3.0

6.0 STAKEHOLDER ENGAGEMENT

The key stakeholders for this stage of pipeline removal include:

- Taos County
- Village of Questa
- Town of Red River
- NMDGF
- NMDOT
- USFWS
- USFS (property owner)
- NMHPD
- USACE
- Amigos Bravos/Trout Unlimited
- Irrigation District

Outreach to the key stakeholders has begun and will continue throughout the pipeline removal project. Stage 5 activities will be discussed with the public during a scheduled meeting with the Village of Questa Council.

7.0 SCHEDULE

The anticipated schedule for Stage 5 of the Questa pipeline removal project is detailed below in Table 7-1.

TABLE 7-1. STAGE 5 PIPELINE REMOVAL SCHEDULE

Pipeline Segment Description	Target Start Date for Pipe Removal	Target End Date for Pipe Removal
East of Sulphur Gulch	May 2019	May 2019
West of Sulphur Gulch	July 2019	August 2019
Sugar Shack South	July 2019	August 2019
1st Road Crossing (East Hwy 38 road)	July 2019	August 2019
Columbine Curve	May 2019	June 2019
Columbine Park Entrance	May 2019	June 2019
2nd Road Crossing	July 2019	July 2019
Admin Section	June 2019	July 2019
Between Goat Hill and Bear Cut	June 2019	July 2019
3rd Road Crossing	June 2019	June 2019
Rock Wall (Between Bear Cut and Forest Service) (aka “Rock and Hard Place”)	June 2019	June 2019
Lower Embargo Road Crossing	May 2019	May 2019
Mill Raw Water Line	May 2019	May 2019

8.0 HEALTH AND SAFETY

CMI, Entact, and Trihydro put safety first and foremost in all operations. A project specific Health and Safety Plan (HASP) will be developed for the pipeline removal activities. The project specific HASP will be similar in scope and detail as presented in the December 20, 2016 HASP (Trihydro 2016) prepared for coordination, sampling, and surveying activities completed in the initial phases of the pipeline dismantling and stabilization. The project specific HASP will include the following details:

- Emergency response procedures and reporting
- Project team organization and responsibilities
- Training, orientation, and medical monitoring requirements
- A site hazard analysis
- Analysis of chemical, physical, and biological hazards
- Required personal protective equipment
- Air monitoring requirements
- Site control measures
- Waste management
- Motor vehicle safety requirements

Other documents used to identify and mitigate hazards associated with the project will include the forms listed below. Examples of the listed forms are included in Appendix D.

- Pre-fieldwork safety readiness reviews. This document provides project management an opportunity to interact with field personnel prior to commencement of field activities.
- Job Safety Analyses (JSA). JSAs are drafted for each task. Job steps, potential hazards, and mitigation steps are identified and communicated to team members. The JSA form is included in Appendix D.
- Field observations. Observations will be conducted throughout the project to verify compliance with operational safety standards.
- Near Miss investigations. Near misses identified by team members will be investigated to determine root causes and means to avoid similar incidents in future operations. The outcome of these investigations will be shared with all team members.

- Daily tailgate safety meetings. Daily tailgate safety meeting will be conducted every day prior to commencement of operations. The meetings are an opportunity to review JSAs, discuss changing conditions, lessons learned, and operational details.
- Weekly management safety meetings. This meeting is an opportunity for the project leadership to discuss upcoming operations, lessons learned, near loss investigations, and other potential issues covered in the weekly project meeting.
- Journey management plans (JMP). JMPs are used to identify hazards associated with transportation. These plans identify hazard and provide mitigation steps for enhancing vehicle operational safety.

The use of these documents creates the foundation for hazard awareness and mitigation. Our companies have embedded their use into our respective corporate cultures and freely share best practices and lesson learned.

9.0 CONTRACTORS KEY PERSONNEL

Entact LLC will be the primary contractor for Stage 5 pipe removal, waste management, and regrading of the right of way. Key Entact personnel include:

- **Michael Cinciripini**. Michael is the Project Manager and primary operations contact for Entact on the tailings pipeline removal project (Project). Michael holds a Bachelor of Science degree in Civil and Environmental Engineering, a Construction Management Certificate and is a Lean Sigma Green Belt. He has a significant level of experience at the Questa Mine facility. He can be reached at (412) 417-8460 or mcinciripini@entact.com.
- **Nicholas Cain**. Nicholas fills the role of Health and Safety Officer for Entact on the Project.

Trihydro Corporation will be responsible for engineering, contractor oversight, environmental sampling, permitting, and regulatory support. Key Trihydro personnel include:

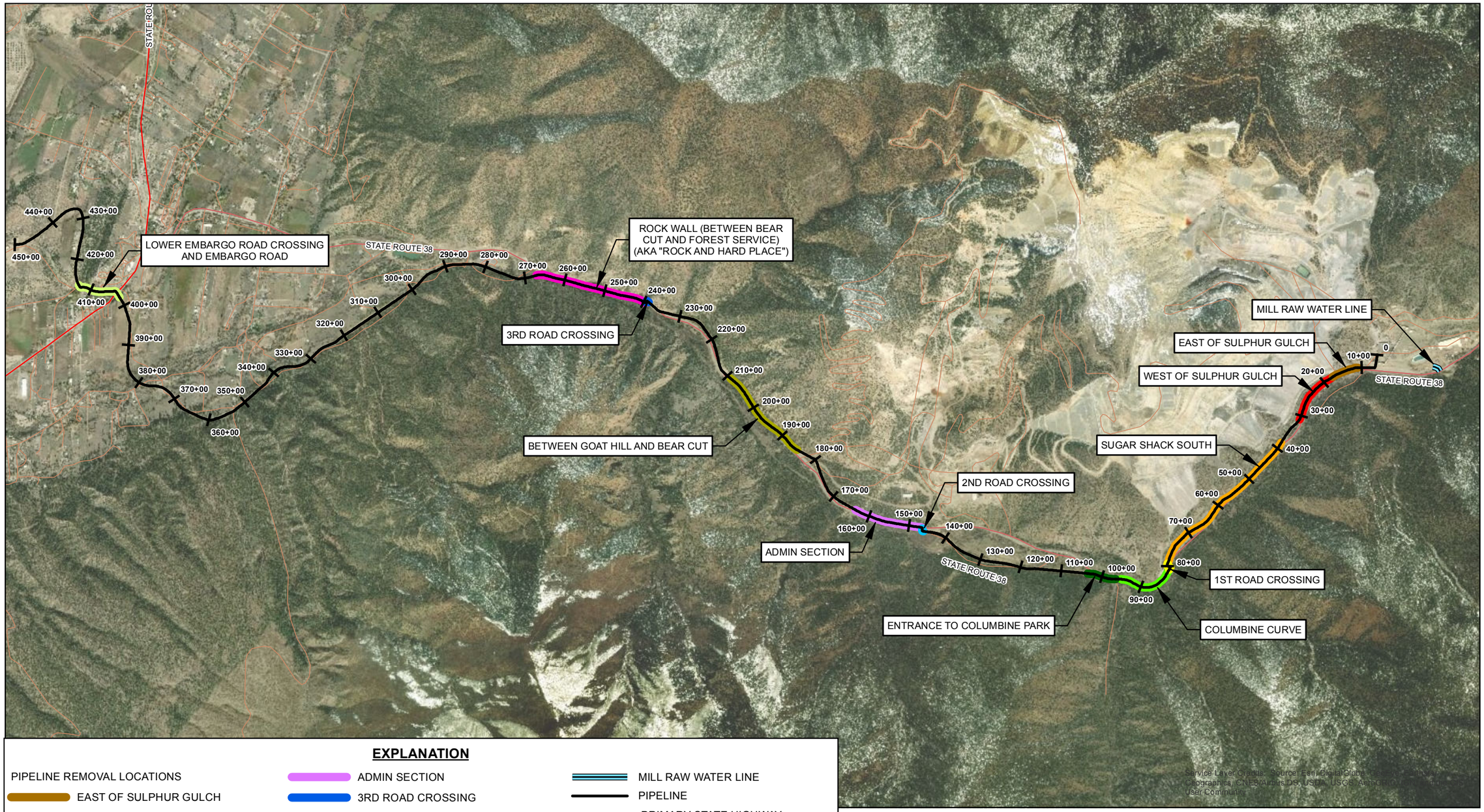
- **Shaun Harshman**. Shaun is the Project Manager and primary contact for Trihydro on the Project. Shaun has a Bachelor of Science degree in Soil Science. He has over 30 years of experience in the environmental field, with over 18 years of experience on Chevron projects. He can be reached at (307) 259-5909 or sharshman@trihydro.com.
- **Tony Kupilik**. Tony will be Trihydro's primary construction oversight and health and safety manager. Tony has over 25 years of experience in heavy construction and mining. He is a certified MSHA instructor, New Mexico Surface Coal Foreman, Excavation Competent Person, 3D Driving instructor, and has OSHA 40-hour HAZWOPER training. He is also certified in Red Cross CPR, AED, and First Aid. He can be reached at (307) 760-8082 or tkupilik@trihydro.com.
- **Loren Eldridge-Looker.** Loren will be Trihydro's primary onsite engineering support for the Project. Loren holds Professional Licenses in Wyoming, Texas, and New Mexico. He is a Civil Engineer with over 10 years of experience in project management, permitting, and design, regulatory coordination, construction management and oversight, design surveying, and construction staking. He can be reached at (720) 399-2019 or LEldridge-Looker@trihydro.com

10.0 REFERENCES

Trihydro Corporation. 2016. Health and Safety Plan (HASP), Field Summary, Chevron Environmental Management Company (CEMC), Environmental Activities, Questa Mine. December 20, 2016.

Trihydro. 2017. Questa Tailings Pipeline Removal MMD/NMED Work Plan, Chevron Environmental Management Company, Questa Mine. May 19, 2017.

FIGURES



EXPLANATION

PIPELINE REMOVAL LOCATIONS

- EAST OF SULPHUR GULCH
- WEST OF SULPHUR GULCH
- SUGAR SHACK SOUTH
- 1ST ROAD CROSSING (EAST HWY 38 ROAD)
- COLUMBINE CURVE
- COLUMBINE PARK ENTRANCE
- 2ND ROAD CROSSING
- ADMIN SECTION
- 3RD ROAD CROSSING
- BETWEEN GOAT HILL AND BEARCUT
- ROCK WALL (BETWEEN BEAR CUT AND FOREST SERVICE) (AKA "ROCK AND HARD PLACE")
- LOWER EMBARGO ROAD CROSSING AND EMBARGO ROAD
- MILL RAW WATER LINE
- PIPELINE
- PRIMARY STATE HIGHWAY
- SECONDARY STATE HIGHWAY
- LOCAL, NEIGHBORHOOD, OR RURAL ROAD
- STATION MARKER WITH DISTANCE FROM THE EASTERN EXTENT OF PIPELINE (1,000 FOOT INTERVAL)

N

0 2,400 '

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FIGURE 3-1

STAGE 5 PIPELINE REMOVAL LOCATIONS

CEMC QUESTA MINE
QUESTA, NEW MEXICO

Drawn By: DH	Checked By: RN	Scale: 1 " = 2,400 '	Date: 3/7/19	File: Fig3-1_Stage5PipelineWP.mxd

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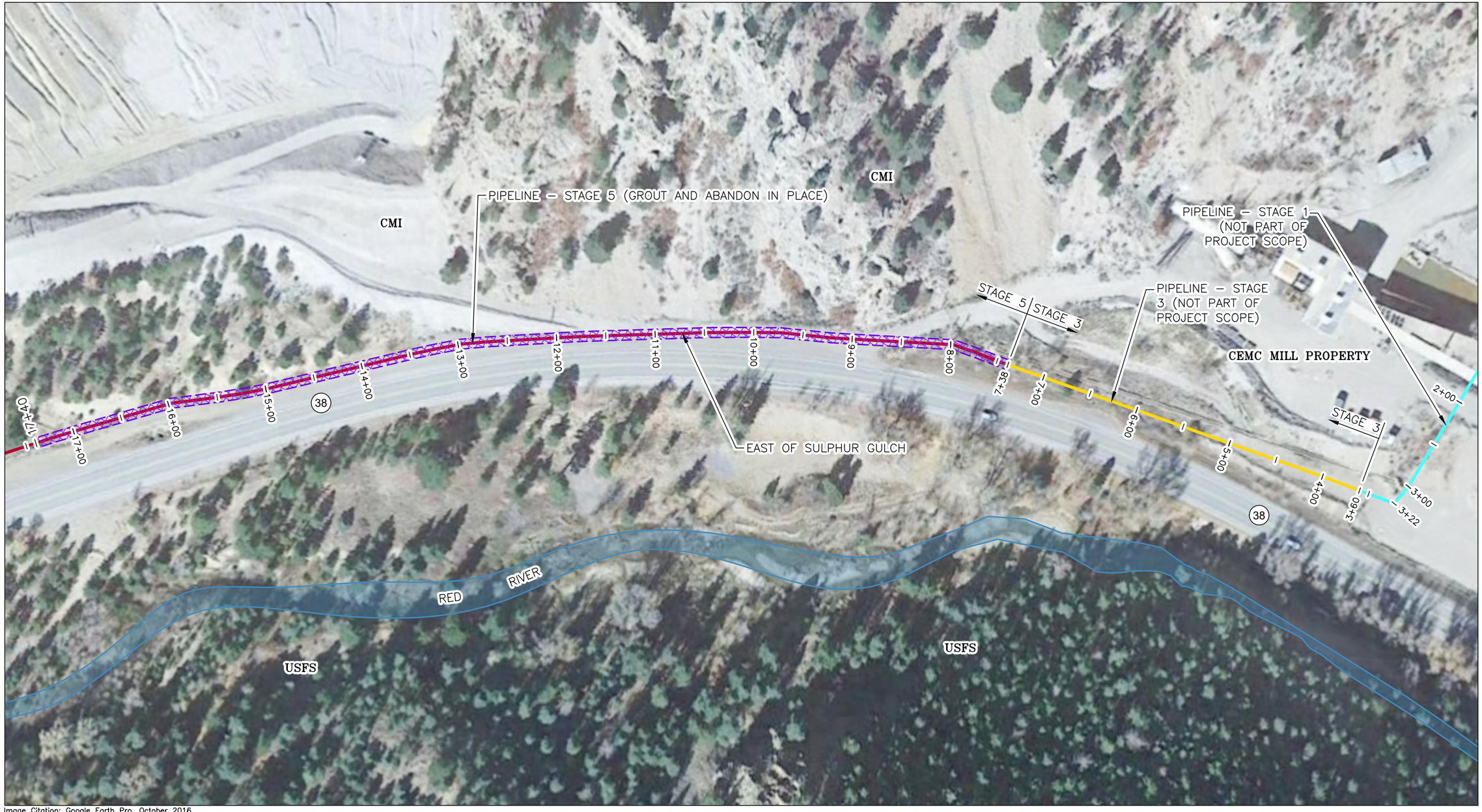

Image Citation: Google Earth Pro, October 2016

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	STRUCTURES	
						COUPLINGS (EA)	OTHER STRUCTURES (EA)
5	7+38	17+40	2	1002	BELOW GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - ABANDON IN PLACE - GROUT	60	1

EXPLANATION

GROUT AND ABANDON IN PLACE

N

0 100'

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FIGURE 3-2

STAGE 5 PIPELINE REMOVAL LOCATION EAST OF SULPHUR GULCH STA. 7+38 THROUGH 17+40

CEMC QUESTA MINE QUESTA, NEW MEXICO

Drawn By: PAC	Checked By: RN	Scale:1" = 100'	Date:1/11/2019	File: 476-QM-S5-PIPEREMOVAL201812

\\TRIHYDRO.COM\CLIENTS\CHEVRON\CEMC_MINING\QUESTAMINE\PIPELINE\CADD\REGULATORY\MXD\STAGE5--WORKPLAN\476-QM--S5--PIPEREMOVAL201812

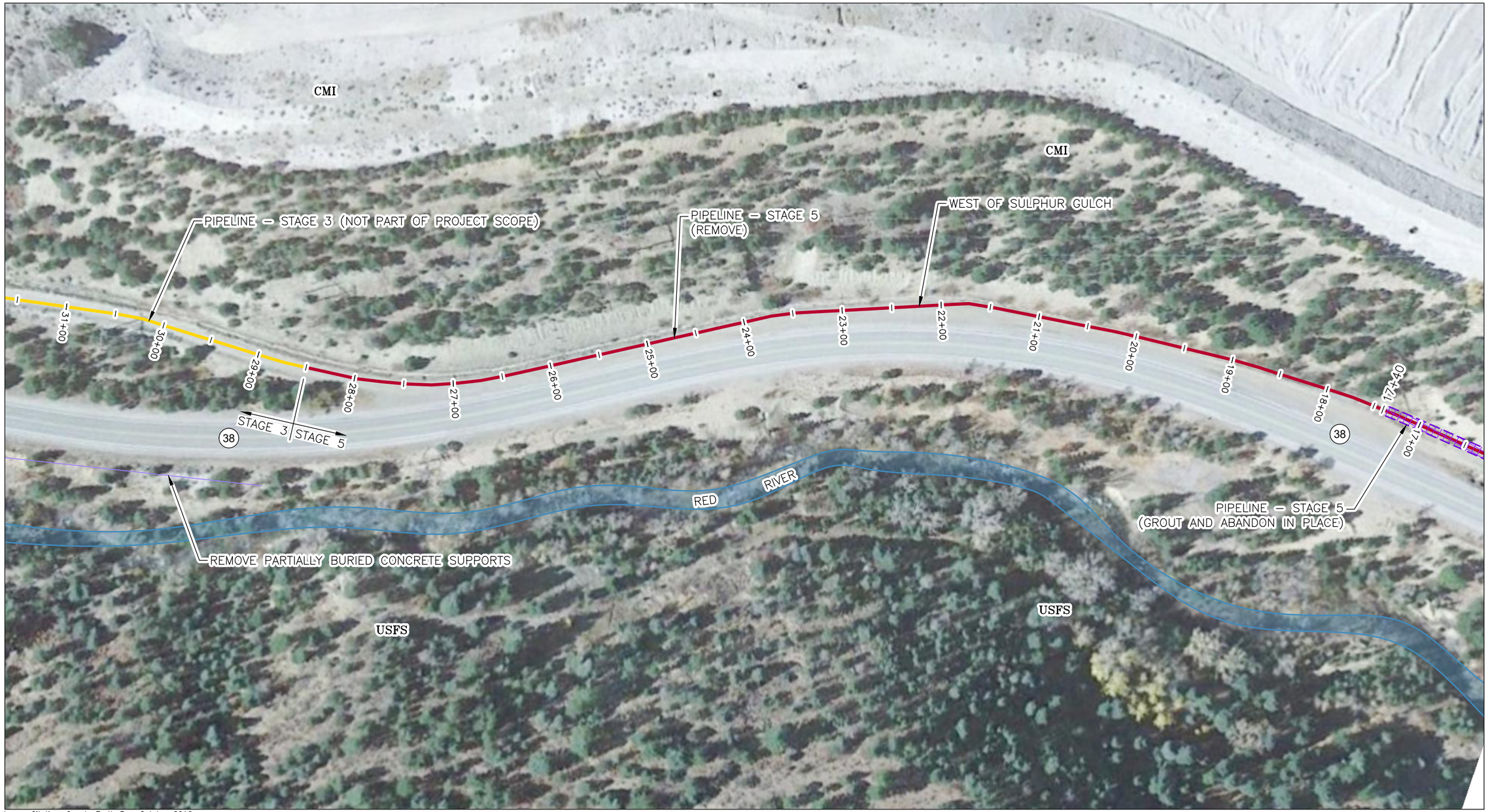

Image Citation: Google Earth Pro, October 2016

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	STRUCTURES COUPLINGS (EA)
5	17+40	28+50	2	1110	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	60

EXPLANATION

GROUT AND ABANDON IN PLACE

0 100'

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FIGURE 3-3

**STAGE 5 PIPELINE REMOVAL LOCATION
WEST OF SULPHUR GULCH
STA. 17+40 THROUGH 28+50**

**CEMC QUESTA MINE
QUESTA, NEW MEXICO**

Drawn By: PAC | Checked By: RN | Scale:1" = 100' | Date:1/11/2019 | File: 476-QM-S5-PIPEREMOVAL201812

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Image Citation: Google Earth Pro, October 2016

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	STRUCTURES COUPLINGS (EA)
5	36+00	45+00	2	900	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	60

N

0 100'

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FIGURE 3-4

STAGE 5 PIPELINE REMOVAL LOCATION
SUGAR SHACK SOUTH
STA. 36+00 THROUGH 45+00

CEMC QUESTA MINE
QUESTA, NEW MEXICO

Drawn By: PAC	Checked By: RN	Scale:1" = 100'	Date:1/11/2019	File: 476-QM-S5-PIPEREMOVAL201812

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Image Citation: Google Earth Pro, October 2016

Image Citation: Trihydro Corporation Field Photos, January 2017

A **14" Ø PAINTED STEEL PIPES COVERED - NORTHEAST VIEW**

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	STRUCTURES	
						COUPLINGS (EA)	MINOR ROAD CROSSINGS (EA)
5	45+000	59+000	2	1400	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	60	1

0 100'

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FIGURE 3-5

STAGE 5 PIPELINE REMOVAL LOCATION
SUGAR SHACK SOUTH
STA. 45+00 THROUGH 59+00

CEMC QUESTA MINE
QUESTA, NEW MEXICO

Drawn By: PAC	Checked By: RN	Scale:1" = 100'	Date:1/11/2019	File: 476-QM-S5-PIPEREMOVAL201812

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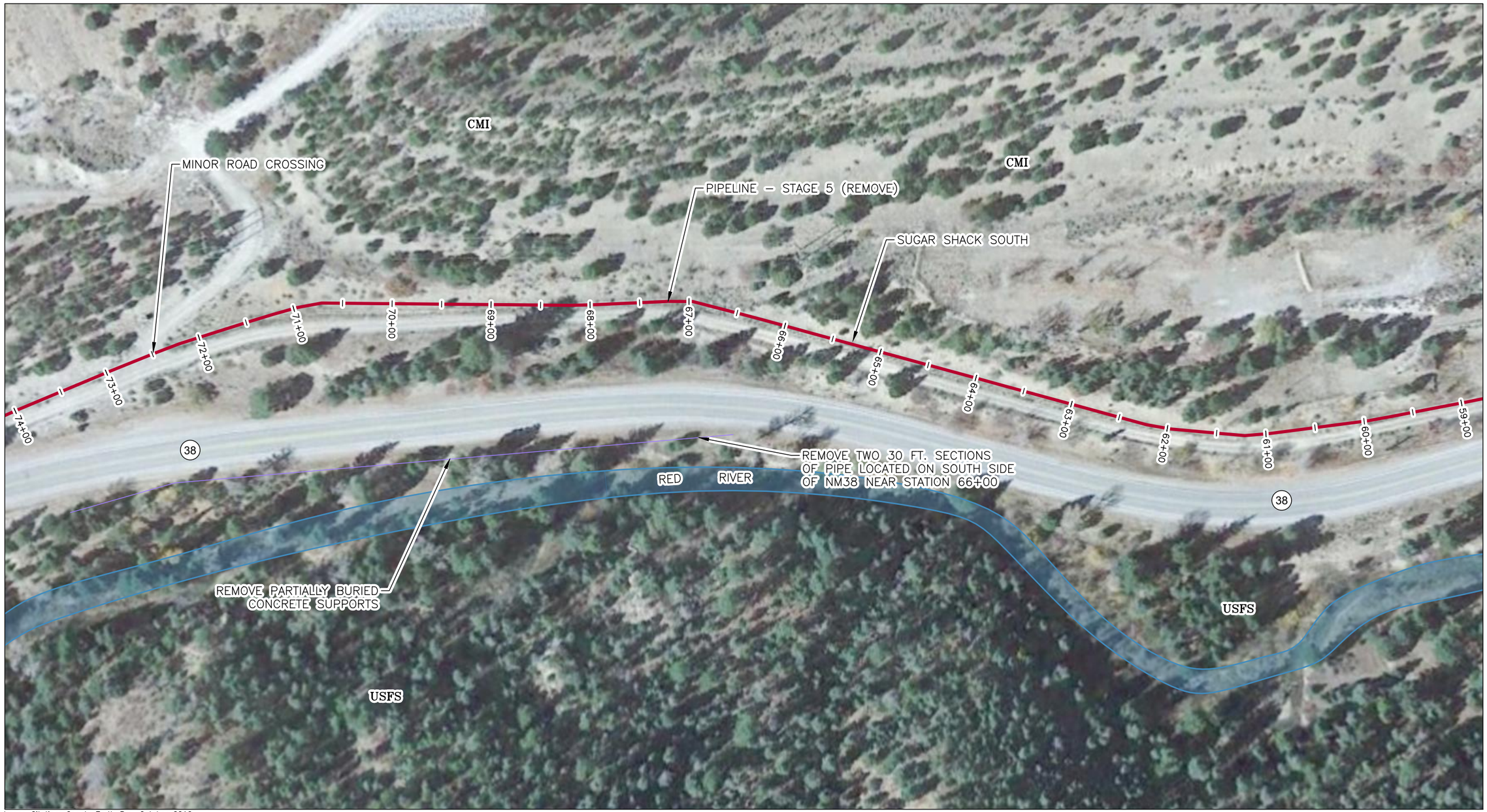

Image Citation: Google Earth Pro, October 2016

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	STRUCTURES	
						COUPLINGS (EA)	MINOR ROAD CROSSINGS (EA)
5	59+00	74+00	2	1500	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	90	1

0 100'

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FIGURE 3-6

STAGE 5 PIPELINE REMOVAL LOCATION
SUGAR SHACK SOUTH
STA. 59+00 THROUGH 74+00

CEMC QUESTA MINE
QUESTA, NEW MEXICO

Drawn By: PAC | Checked By: RN | Scale:1" = 100' | Date:1/11/2019 | File: 476-QM-S5-PIPEREMOVAL201812

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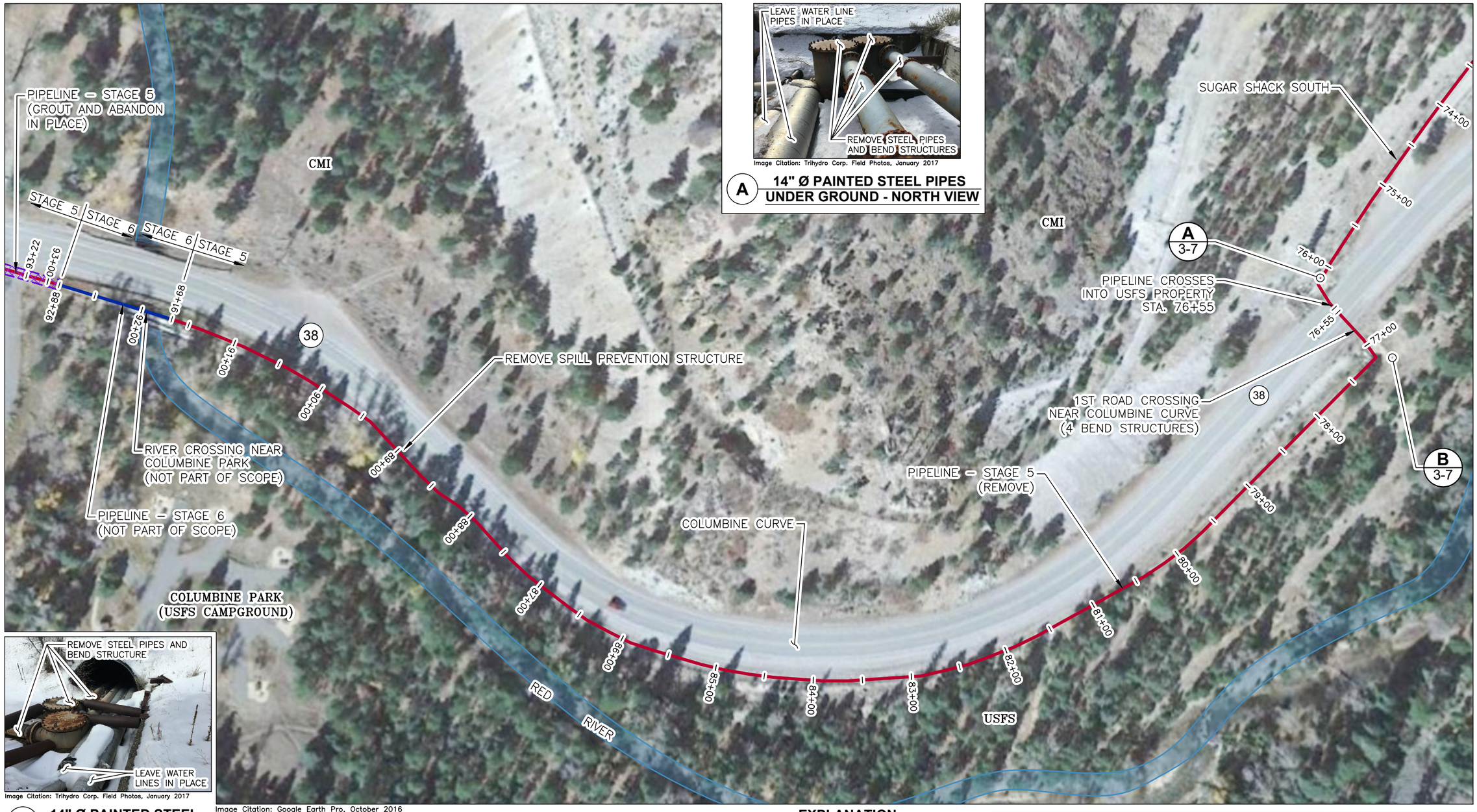

Image Citation: Trihydro Corp. Field Photos, January 2017

A **14" Ø PAINTED STEEL PIPES UNDER GROUND - NORTH VIEW**

Image Citation: Trihydro Corp. Field Photos, January 2017

B **14" Ø PAINTED STEEL PIPE BEND STRUCTURE**

Image Citation: Google Earth Pro, October 2016

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	STRUCTURES			
						COUPLINGS (EA)	STEEL PIPE BEND STRUCTURES (EA)	OTHER STRUCTURES (EA)	ROAD CROSSINGS (EA)
5	74+00	91+68	2	1768	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	100	4	1	1

EXPLANATION

GROUT AND ABANDON IN PLACE

N

0 100'

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FIGURE 3-7
STAGE 5 PIPELINE REMOVAL LOCATION
1ST ROAD CROSSING AND COLUMBINE CURVE
STA. 74+00 THROUGH 91+68

CEMC QUESTA MINE
QUESTA, NEW MEXICO

Drawn By: PAC | Checked By: RN | Scale:1" = 100' | Date:1/11/2019 | File: 476-QM-S5-PIPEREMOVAL201812

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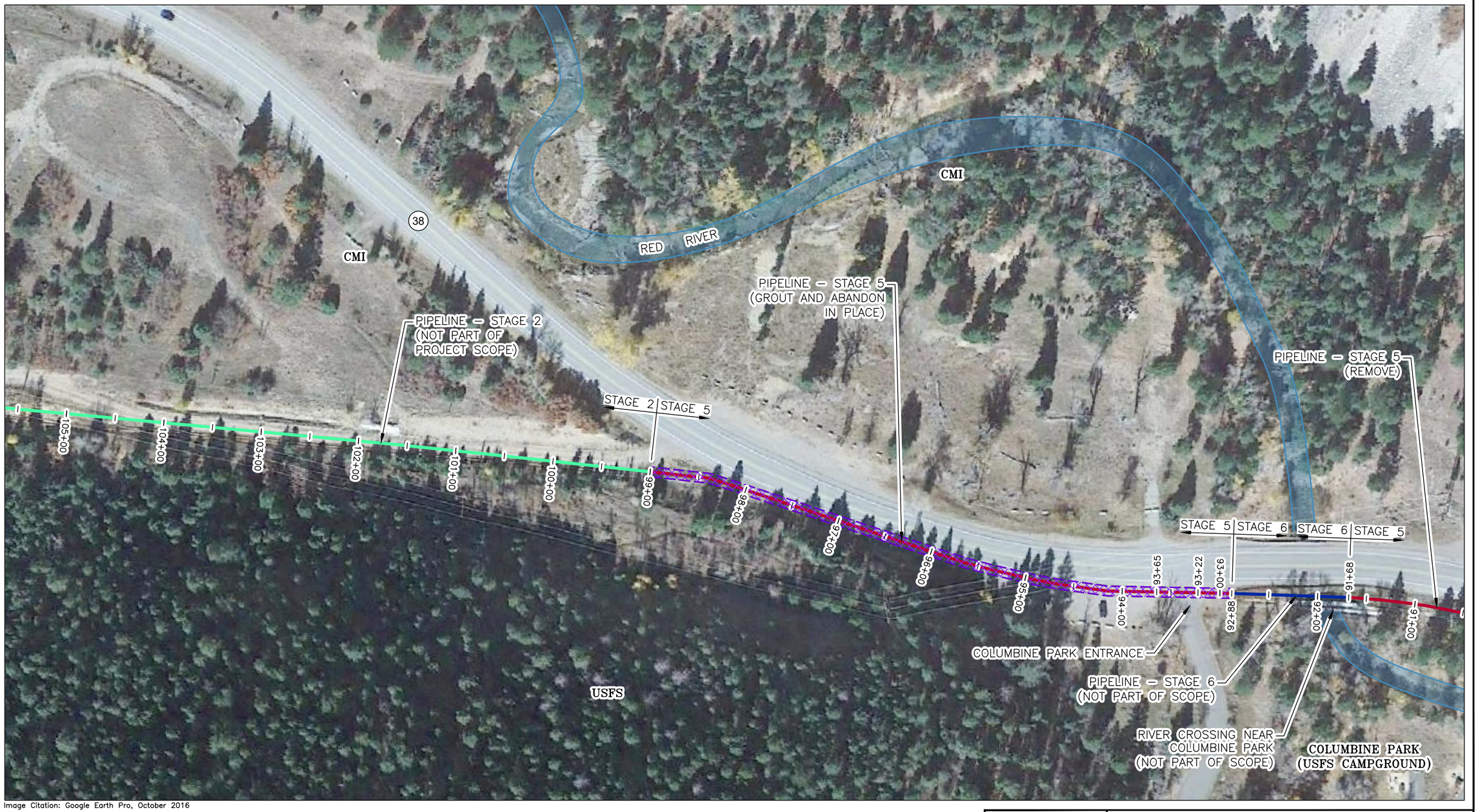

Image Citation: Google Earth Pro, October 2016

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	STRUCTURES COUPLINGS (EA)
5	92+88	99+00	2	612	BELOW GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - ABANDON IN PLACE - GROUT	40

EXPLANATION

GROUT AND ABANDON IN PLACE

N

0 100'

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FIGURE 3-8

STAGE 5 PIPELINE REMOVAL LOCATION
COLUMBINE PARK ENTRANCE
STA. 92+88 THROUGH 99+00

CEMC QUESTA MINE
QUESTA, NEW MEXICO

Drawn By: PAC | Checked By: RN | Scale:1" = 100' | Date:1/11/2019 | File: 476-QM-S5-PIPEREMOVAL201812

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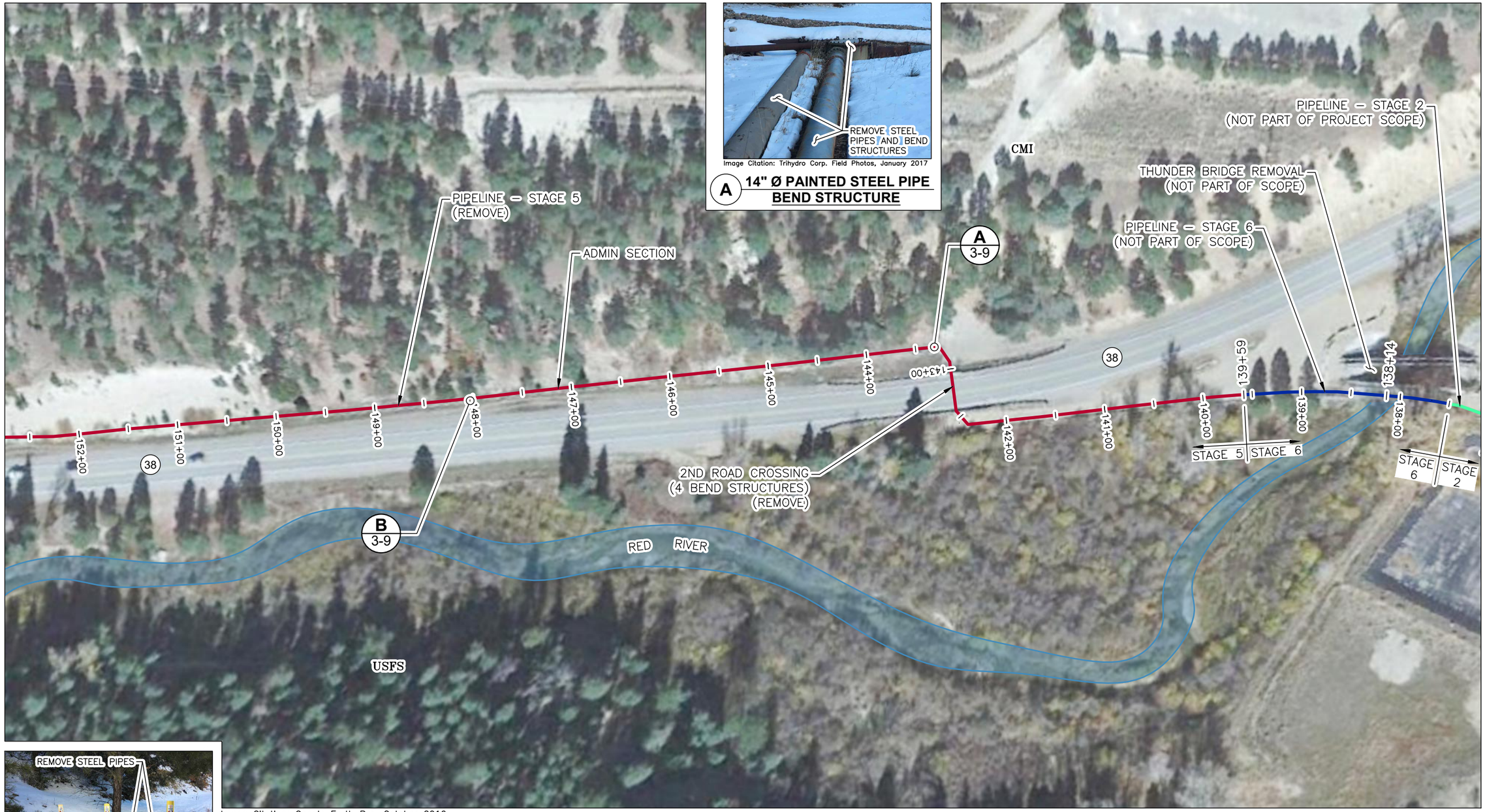

Image Citation: Trihydro Corp. Field Photos, January 2017

A 14" Ø PAINTED STEEL PIPE BEND STRUCTURE

Image Citation: Google Earth Pro, October 2016

Image Citation: Trihydro Corp. Field Photos, January 2017

B 14" Ø PAINTED STEEL PIPES - NORTH VIEW

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	STRUCTURES		
						COUPLINGS (EA)	STEEL PIPE BEND STRUCTURES (EA)	ROAD CROSSINGS (EA)
5	139+59	152+50	2	1291	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	70	4	1

N

0 100'

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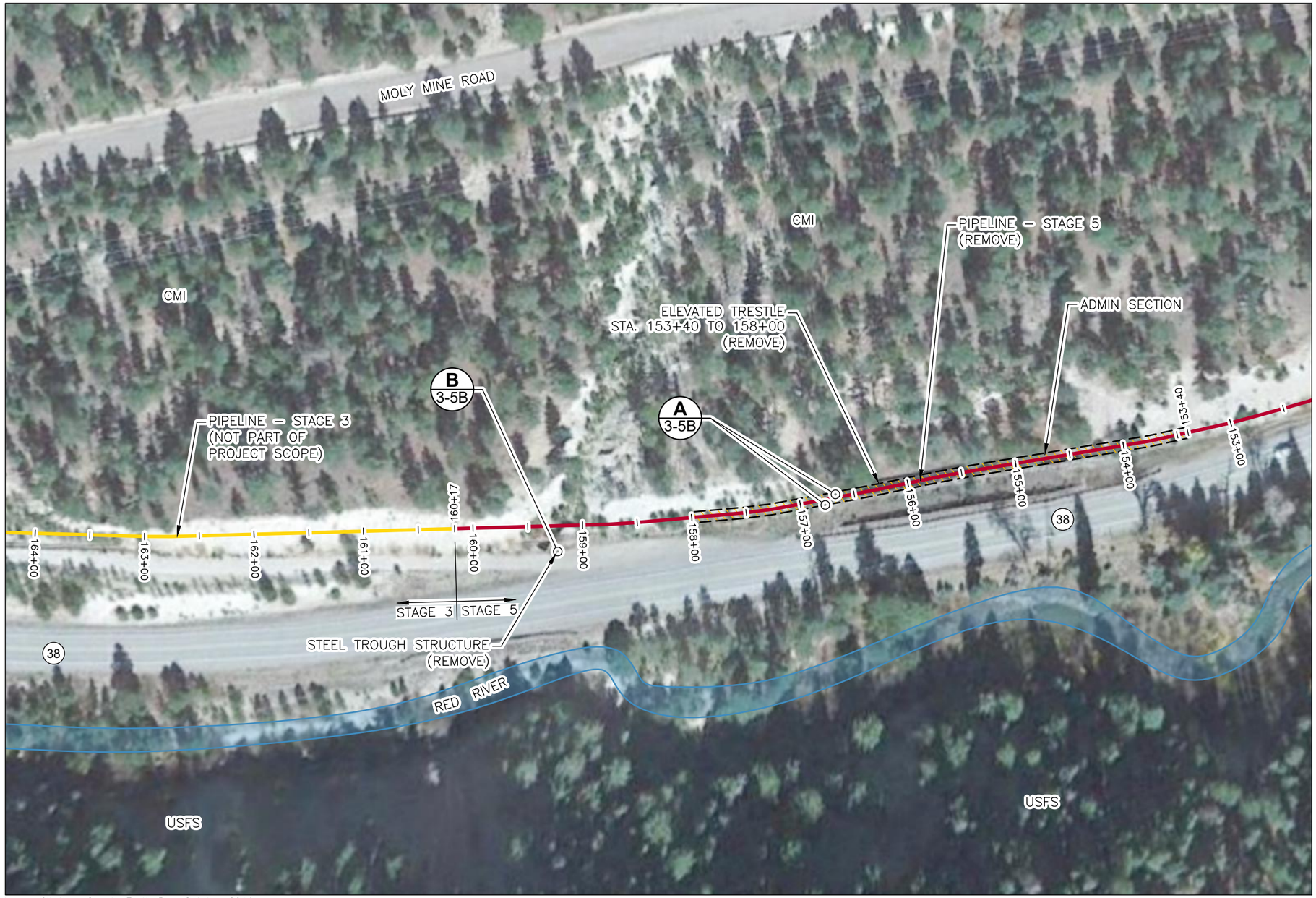
FIGURE 3-9

STAGE 5 PIPELINE REMOVAL LOCATION 2ND ROAD CROSSING AND ADMIN SECTION STA. 139+59 THROUGH 152+50

CEMC QUESTA MINE QUESTA, NEW MEXICO

Drawn By: PAC	Checked By: RN	Scale:1" = 100'	Date:1/11/2019	File: 476-QM-S5-PIPEREMOVAL201812

\\TRIHYDRO.COM\CLIENTS\CHEVRON\CEMC_MINING\QUESTAMINE\PIPELINE\CADD\REGULATORY\MMD\STAGE5--WORKPLAN\476-QM-S5--PIPEREMOVAL201812



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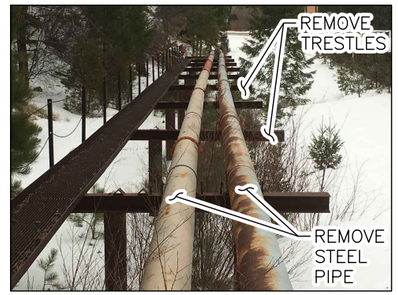

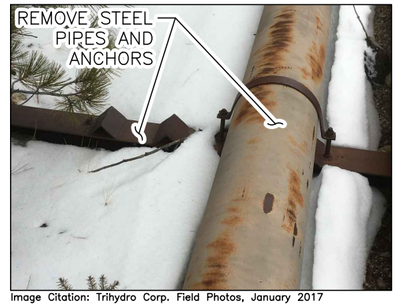

Image Citation: Trihydro Corp. Field Photos, January 2017

A **14" Ø PAINTED STEEL PIPES ON ELEVATED TRESTLES - EAST VIEW**

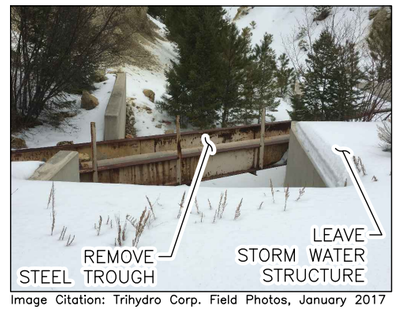

Image Citation: Trihydro Corp. Field Photos, January 2017

B **STEEL TROUGH STRUCTURE - NORTH VIEW**

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	SEGMENT LENGTH (LF)	DESCRIPTION	STRUCTURES	
						COUPLINGS (EA)	OTHER STRUCTURES (EA)
5	152+50	160+17	2	767	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL	40	2
5	153+40	158+00	-	460	ELEVATED TRESTLE - REMOVE	-	-
5	159+40	-	-	600	STEEL TROUGH STRUCTURE - REMOVE	-	-

EXPLANATION

ELEVATED TRESTLE

N

0 100'

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FIGURE 3-10

STAGE 5 PIPELINE REMOVAL LOCATION ADMIN SECTION STA. 152+50 THROUGH 160+17

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QUESTA, NEW MEXICO

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Image Citation: Google Earth Pro, October 2016

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	STRUCTURES
						COUPLINGS (EA)
5	181+49	183+00	3	151	ABOVE GROUND, 3 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	15
5	183+00	196+00	2	1300	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	70

N

0 100'

FIGURE 3-11

STAGE 5 PIPELINE REMOVAL LOCATION BETWEEN GOAT HILL AND BEAR CUT STA. 181+49 THROUGH 196+00

CEMC QUESTA MINE
QUESTA, NEW MEXICO

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Drawn By: PAC | Checked By: RN | Scale:1" = 100' | Date:1/11/2019 | File: 476-QM-S5-PIPEREMOVAL201812

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Image Citation: Google Earth Pro, October 2016

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	STRUCTURES
						COUPLINGS (EA)
5	196+00	208+00	2	1200	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	50

N

0 100'

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FIGURE 3-12

STAGE 5 PIPELINE REMOVAL LOCATION BETWEEN GOAT HILL AND BEAR CUT STA. 196+00 THROUGH 208+00

CEMC QUESTA MINE
QUESTA, NEW MEXICO

Drawn By: PAC	Checked By: RN	Scale:1" = 100'	Date:1/11/2019	File: 476-QM-S5-PIPEREMOVAL201812

\\TRIHYDRO.COM\CLIENTS\CHEVRON\CEMC_MINING\QUESTAMINE_PIPELINE\CADD\REGULATORY\MMD\STAGE5-WORKPLAN\476-QM-S5-PIPEREMOVAL201812

3RD ROAD CROSSING
(6 BEND STRUCTURES)
(REMOVE)

ROCK WALL
(BETWEEN BEAR CUT AND
FOREST SERVICE – AKA "ROCK
AND HARD PLACE")

USFS

CMI

BEAR CUT AREA
(NOT PART OF SCOPE)

PIPELINE – STAGE 3
(NOT PART OF
PROJECT SCOPE)

PIPELINE – STAGE 5
(REMOVE)

STAGE 5 | STAGE 3

38

240+00 | 239+00 | 238+00 | 237+00 | 236+00 | 235+00 | 234+00 | 233+00 | 232+00 | 231+00 | 230+00 | 229+00 | 228+00 | 227+00 | 226+00 | 225+00

A
3-13

RED RIVER

PIPELINE – STAGE 5
(REMOVE)

USFS

USFS

38

OE — OE — OE

Image Citation: Trihydro Corp. Field Photos, January 2017

Image Citation: Google Earth Pro, October 2016

A 14" Ø PAINTED STEEL PIPE BEND STRUCTURE - SOUTH SIDE OF ROAD

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	STRUCTURES	
						COUPLINGS (EA)	STEEL PIPE BEND STRUCTURES (EA)
5	230+00	240+00	2	1000	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	30	6

N

0 100'

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FIGURE 3-13
STAGE 5 PIPELINE REMOVAL LOCATION 3RD ROAD CROSSING AND ROCKWALL STA. 230+00 THROUGH 240+00

CEMC QUESTA MINE
QUESTA, NEW MEXICO

Drawn By: PAC	Checked By: RN	Scale:1" = 100'	Date:1/11/2019	File: 476-QM-S5-PIPEREMOVAL2-201812

M:_CHEVRON_CEMC_MINING_QUESTAMINE_PIPELINE_CADD_REGULATORY_MMD_STAGE5 - WORKPLAN_476 - QM - S5 - PIPEREMOVAL2 - 201812

USFS

OVERHEAD POWER LINES IN CLOSE PROXIMITY TO PIPELINE; GUY WIRES ANCHORED APPROXIMATELY 20 FT FROM PIPELINE

ROCK WALL (BETWEEN BEAR CUT AND FOREST SERVICE – AKA "ROCK AND HARD PLACE")

USFS

38

38

254+00

253+00

252+00

251+00

250+00

249+00

248+00

247+00

246+00

245+00

244+00

243+00

242+00

241+00

240+00

RED RIVER

PIPELINE – STAGE 5 (REMOVE)

PIPELINE – STAGE 5 (REMOVE)

A 3-14

USFS

USFS

Image Citation: Trihydro Corporation Field Photos, January 2017

A 14" Ø UNPAINTED STEEL PIPE WITH GALVANIZED SPILL PREVENTION - EAST VIEW

Image Citation: Google Earth Pro, October 2016

N

0 100'

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	STRUCTURES	
						COUPLINGS (EA)	OTHER STRUCTURES (EA)
5	240+00	254+00	2	1400	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	80	1

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FIGURE 3-14

STAGE 5 PIPELINE REMOVAL LOCATION
ROCKWALL
STA. 240+00 THROUGH 254+00

CEMC QUESTA MINE
QUESTA, NEW MEXICO

Drawn By: PAC	Checked By: RN	Scale:1" = 100'	Date:1/11/2019	File: 476-QM-S5-PIPEREMOVAL2-201812

\\TRIHYDRO.COM\CLIENTS\CHEVRON\CEMC_MINING\QUESTAMINE\PIPELINE\CADD\REGULATORY\MMD\STAGE5--WORKPLAN\476-QM--S5--PIPEREMOVAL2-201812

OVERHEAD POWER LINES AND POWER POLES OBSERVED APPROXIMATELY 75FT NORTH OF STA. 263+50

PIPELINE BURIED UNDER ACCESS ROAD

OVERHEAD POWER LINES AND POWER POLES OBSERVED IN CLOSE PROXIMITY TO PIPELINE AT STA. 258+00

PIPELINE BURIED UNDER ACCESS ROAD

USFS

38

STAGE 6 STAGE 5

263+48

264+00

263+00

262+00

261+00

260+00

259+00

258+00

257+00

256+00

255+00

254+00

253+00

PIPELINE – STAGE 6 (NOT PART OF SCOPE)

PIPELINE – STAGE 5 (REMOVE)

RED RIVER

A 3-15

USFS

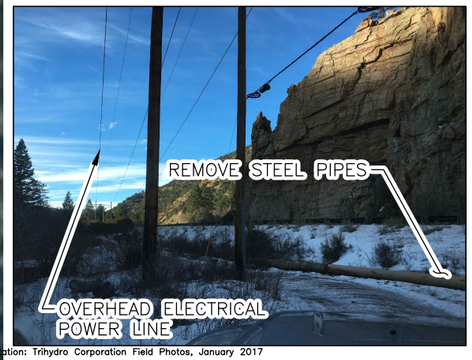

Image Citation: Trihydro Corporation Field Photos, January 2017

A 14" Ø PAINTED STEEL PIPE - WEST VIEW

Image Citation: Google Earth Pro, October 2016

STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	STRUCTURES		
						COUPLINGS (EA)	CONCRETE THRUST BLOCK (EA)	MINOR ROAD CROSSINGS
5	254+00	263+00	2	900	ABOVE GROUND, 2 -14"Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	50	UNKNOWN	2

N

0 80'

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FIGURE 3-15
STAGE 5 PIPELINE REMOVAL LOCATION ROCKWALL STA 254+00 THROUGH 263+00

CEMC QUESTA MINE QUESTA, NEW MEXICO

Drawn By: PAC	Checked By: RN	Scale:1" = 80'	Date:1/11/2019	File: 476-QM-S5-PR-ROCKWALL201904

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Image Citation: Google Earth Pro, October 2016

STAGE	BEGIN STATION	END STATION	PIPE LENGTH (LF)	DESCRIPTION
5	398+58	409+90	1132	BELOW GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - GROUT AND ABANDON IN PLACE

EXPLANATION

GROUT AND ABANDON IN PLACE

N

0 100'

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FIGURE 3-16

**STAGE 5 PIPELINE REMOVAL LOCATION
LOWER EMBARGO ROAD CROSSING AND
EMBARGO ROAD - STA. 398+58 THROUGH 409+90**

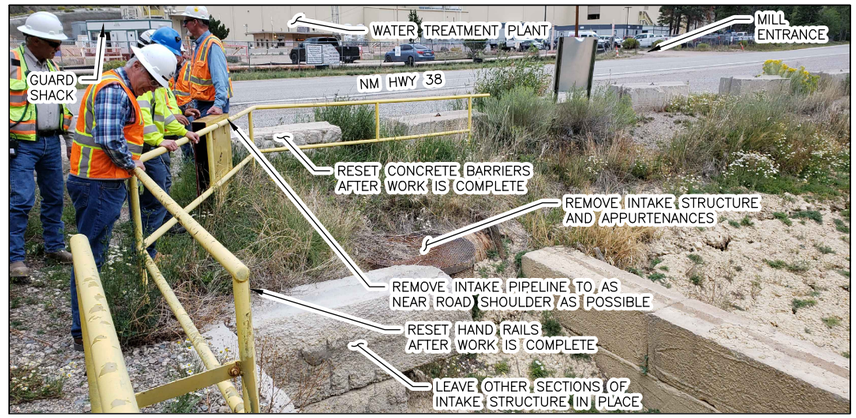
**CEMC QUESTA MINE
QUESTA, NEW MEXICO**

Drawn By: PAC	Checked By: RN	Scale:1" = 100'	Date:1/11/2019	File: 476-QM-S5-PIPEREMOVAL2-201812

M:\CHEVRON\CEMC_MINING\QUESTAMINE\PIPELINE\CADD\REGULATORY\MMD\STAGE5 - WORKPLAN\476-QM-S5-PIPEREMOVAL2-201812

Image Citation: ©2018 Microsoft Corporation ©2018 DigitalGlobe ©CNES (2018) Distribution Airbus DS Bing Image

A "BREAK-IN" LOCATION
SCALE: NONE



B INTAKE AREA
SCALE: NONE

N

0 50'

EXPLANATION

- WATER FEATURE
- INLET STRUCTURE
- CONCRETE STRUCTURE
- HAND RAIL
- FENCE
- OVERHEAD ELECTRICAL LINE
- STORM WATER PIPE
- UNDERGROUND ELECTRICAL
- RAW WATER LINE
- ROAD SHOULDER
- GROUT AND ABANDON IN PLACE
- APPROXIMATE UTILITY CORRIDOR
- BUILDING OR OTHER STRUCTURE
- NM HWY 38 - APPROXIMATE BOUNDARY
- MILL ROAD/TRANSPORTATION AREA

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FIGURE 3-17

STAGE 5 PIPELINE REMOVAL LOCATION
MILL RAW WATER LINE

CEMC QUESTA MINE
QUESTA, NEW MEXICO

Drawn By: PAC	Checked By: RN	Scale:1" = 50'	Date:1/11/2019	File: 476-QM-S5-PR-MILLRAWWL201812

M:\CHEVRON\CEMC_MINING\QUESTAMINE\PIPELINE\CADD\REGULATORY\MMD\STAGE5-WORKPLAN\476-QM-S5-PR-MILLRAWWL201812

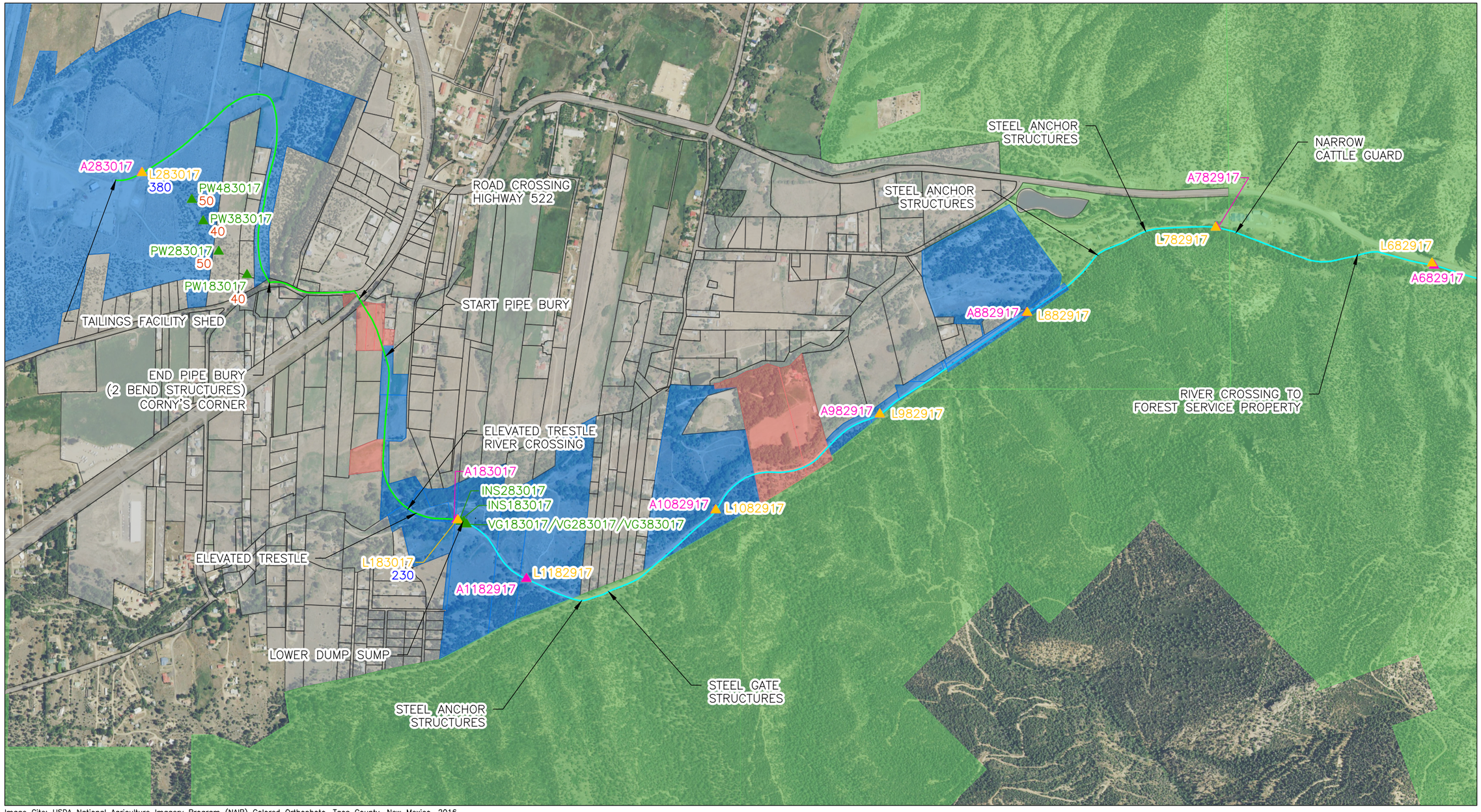

Image Cite: USDA National Agriculture Imagery Program (NAIP) Colored Orthophoto, Taos County, New Mexico, 2016

EXPLANATION

- ▲ ▲ ▲ SAMPLE POINT AND DESIGNATION
- 230 DETECTED LEAD, IN MILLIGRAMS PER KILOGRAM (mg/kg)
- 40 DETECTED ASBESTOS IN % CHRYSOTILE
- TAILINGS PIPELINE ALIGNMENT - EAST OF LOWER DUMP SUMP
- TAILINGS PIPELINE ALIGNMENT - WEST OF LOWER DUMP SUMP
- PRIVATE PROPERTY NEAR PIPELINE
- CMI PROPERTY
- CARSON NATIONAL FOREST
- OTHER PROPERTY

N

0 1000'

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FIGURE 4-1

PIPELINE SAMPLING LOCATIONS
EXISTING SITE PLAN - WEST AREA DETAIL
CMI TAILINGS PIPELINE

CEMC QUESTA
QUESTA, NEW MEXICO

Drawn By: PC	Checked By: CS	Scale: 1" = 1000'	Date: 6/18/18	File: 476-QM-PRMT-SITEDETAIL201806

M:\CHEVRON\CEMC_MINING\QUESTAMINE\PIPELINE\CADD\REGULATORY\MXD\ASBESTOSANDLEADREPORT\476-QM-PRMT-SITEDETAIL201806

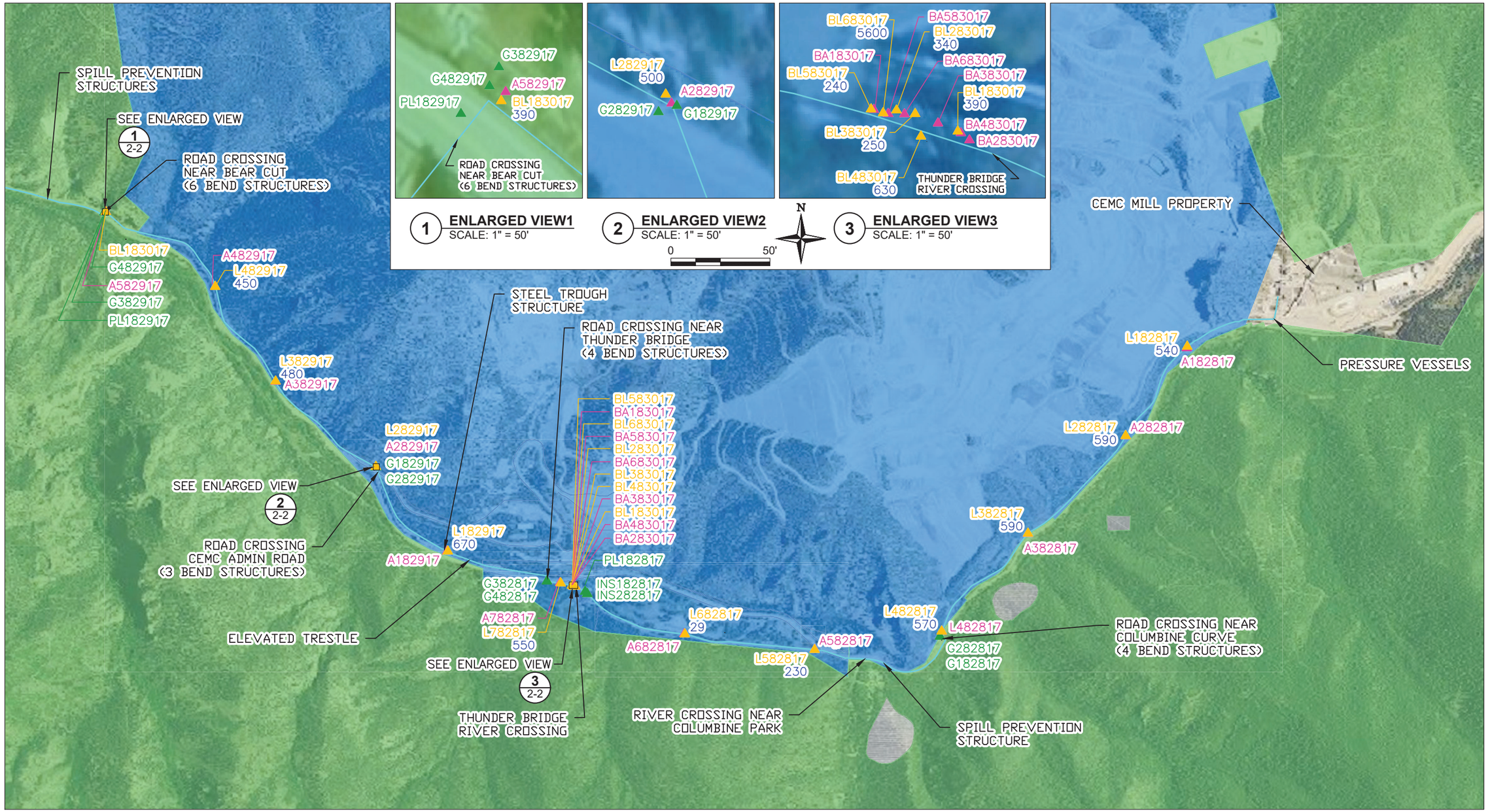

Image Cite: USDA National Agriculture Imagery Program (NAIP) Colored Orthophoto, Taos County, New Mexico, 2016

EXPLANATION

- SAMPLE POINT AND DESIGNATION
- 550 — DETECTED LEAD, IN MILLIGRAMS PER KILOGRAM (mg/kg)
- TAILINGS PIPELINE ALIGNMENT - EAST OF LOWER DUMP SUMP
- CMI PROPERTY
- CARSON NATIONAL FOREST
- OTHER PROPERTY

N

0 1500'

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FIGURE 4-2

PIPELINE SAMPLING LOCATIONS
EXISTING SITE PLAN - EAST AREA
CMI TAILINGS PIPELINE

CEMC QUESTA
QUESTA, NEW MEXICO

Drawn By: PC	Checked By: CS	Scale: 1" = 1500'	Date: 4/26/17	File: 476-QM-PRMT-SITEDETAIL201806

M:\CHEVRON\CEMC_MINING\QUESTAMINE\PIPELINE\CADD\REGULATORY\MMD\ASBESTOSANDLEADREPORT\476-QM-PRMT-SITEDETAIL201806

APPENDIX A

STAGE 5 SITE AND UTILITY LAYOUTS

XQ003-19 Tailings Pipeline Removal Stages 3-7

STAGE 5 SITE AND UTILITY LAYOUTS

QUESTA MINE SUPERFUND SITE

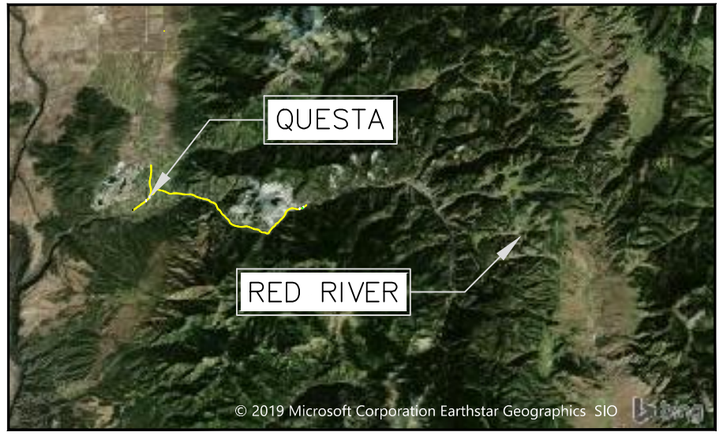
QUESTA, NEW MEXICO

MAY 7, 2019

SITE LOCATION MAP

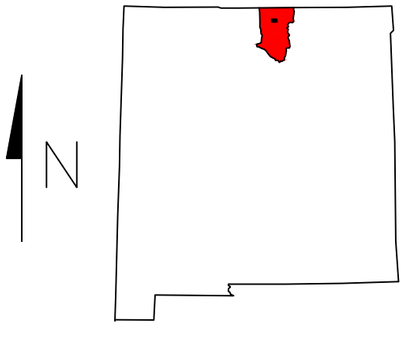
PREPARED FOR:

Chevron Environmental Management And Real Estate Company



PROJECT VICINITY MAP

VILLAGE OF QUESTA – TAOS COUNTY, NM



ENTACT
2873 W. Hardies Road
Gibsonia, Pennsylvania 15044

DRAWN BY:	DD

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

GRAPHICAL REPRESENTATION ONLY
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CLIENT

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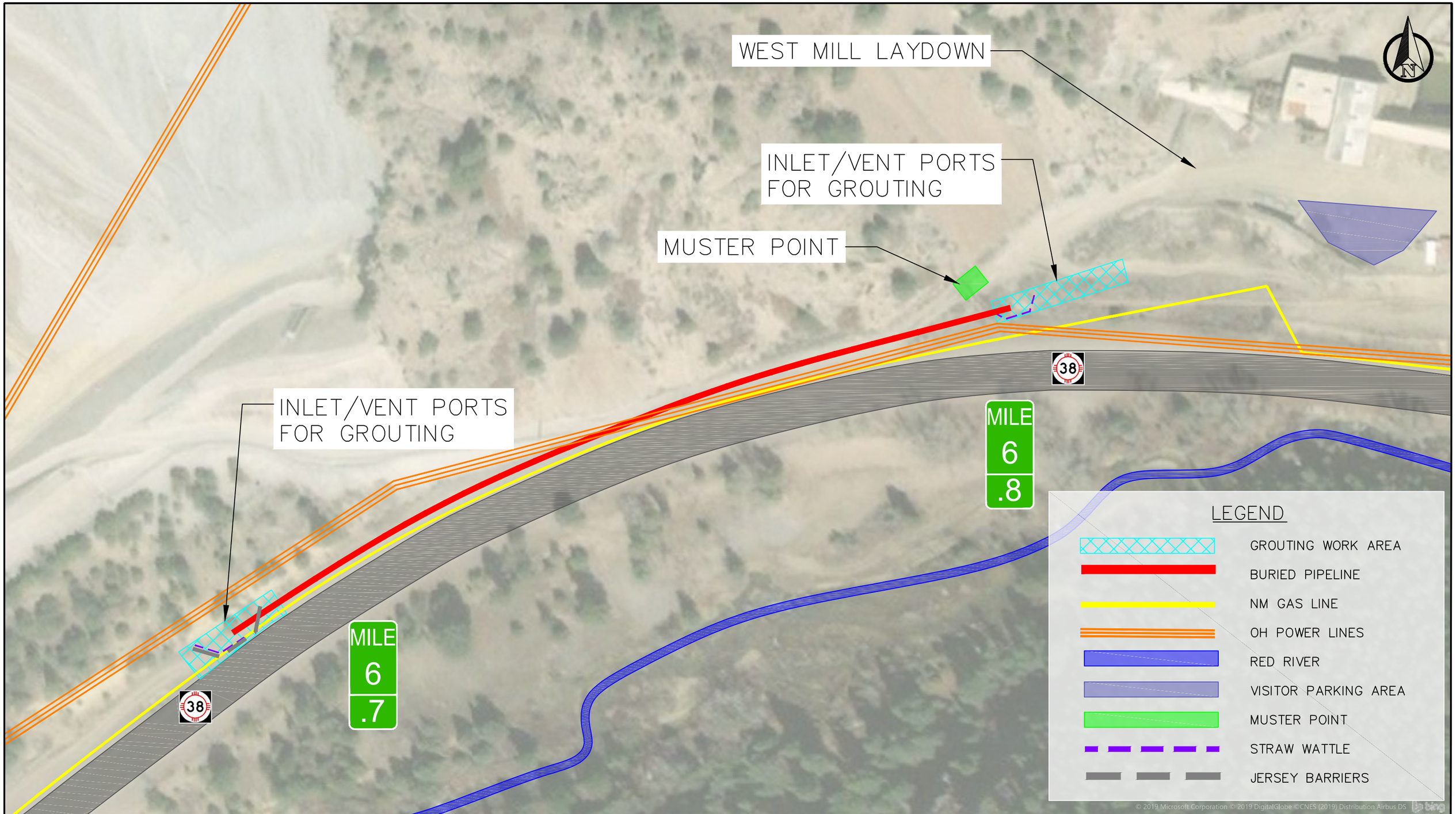
QUESTA MINE
QUESTA, NEW MEXICO

ENTACT

DRAWING NAME: STAGE 5 GENERAL OVERVIEW

PROJECT NAME & LOCATION: TAILINGS PIPELINE REMOVAL STAGES 3–7
QUESTA, NM

DRAWN BY	D. DEKALB	APPROVED BY		REV	2
DATE	05/02/2019	DATE		PROJECT NO.	XQ003–19



REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

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0 50 100 Feet

CLIENT

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Chevron

ENTACT

DRAWING NAME: SEGMENT 5.01 ALIGNMENT

PROJECT NAME & LOCATION: TAILINGS PIPELINE REMOVAL STAGES 3–7
QUESTA, NM

DRAWN BY	D. DEKALB	APPROVED BY		REV	2
DATE	04/26/19	DATE		PROJECT NO.	XQ003-19

MILE 6 .7

MILE 6 .5

MUSTER POINT

LEGEND

- REMOVAL WORK AREA
- SURFACE PIPELINE
- NM GAS LINE
- OH POWER LINES
- RED RIVER
- PIPE STAGING AREA
- VISITOR PARKING
- MUSTER POINT
- STRAW WATTLE

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

GRAPHICAL REPRESENTATION ONLY
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0 75 150 Feet

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ENTACT

DRAWING NAME: SEGMENT 5.02 ALIGNMENT

PROJECT NAME & LOCATION: TAILINGS PIPELINE REMOVAL STAGES 3–7
QUESTA, NM

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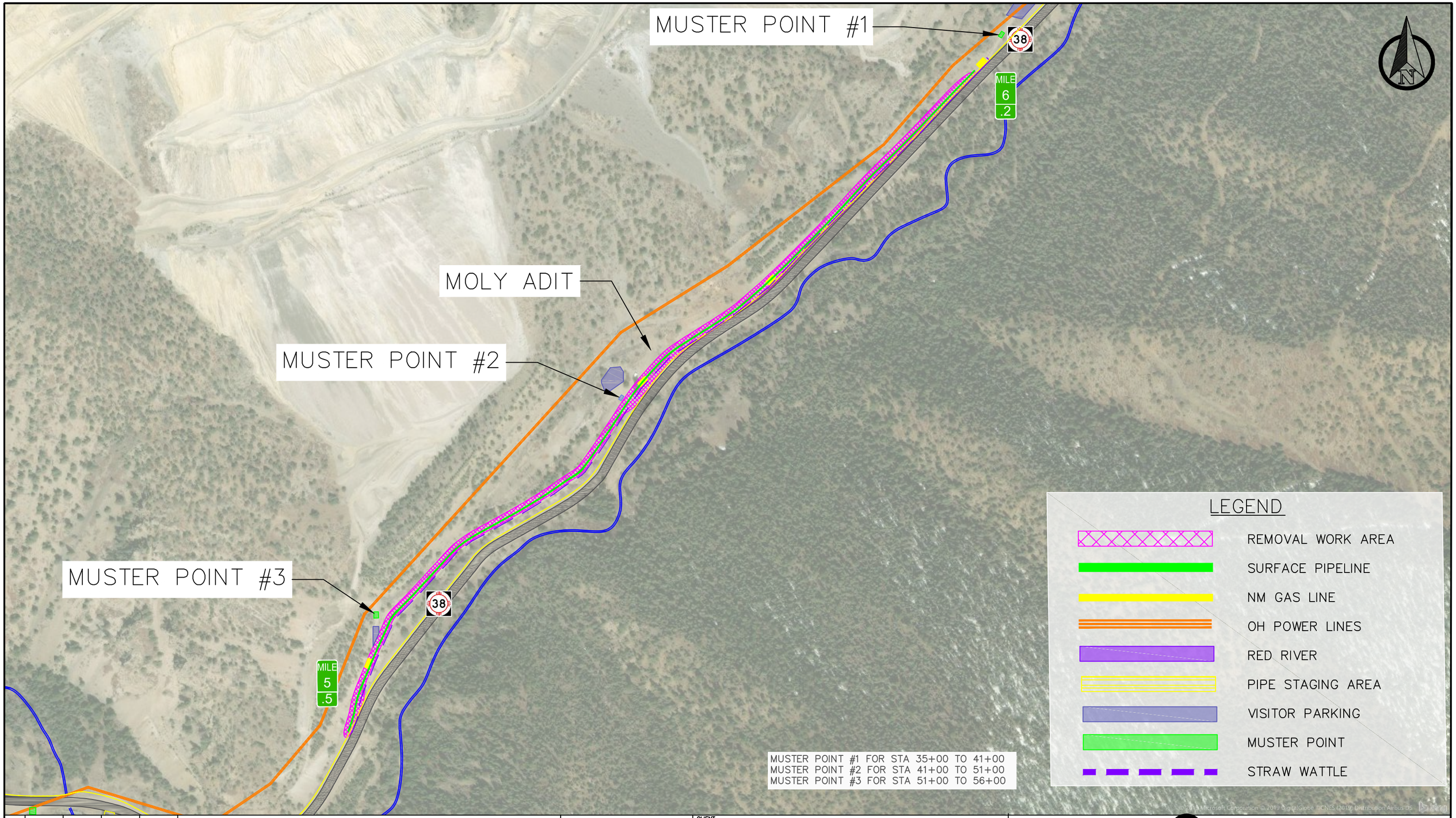
DATE	04/26/19	DATE		PROJECT NO.	XQ003-19



REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

GRAPHICAL REPRESENTATION ONLY
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0 200 400 Feet

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ENTACT

DRAWING NAME: SEGMENT 5.03 ALIGNMENT

PROJECT NAME & LOCATION: TAILINGS PIPELINE REMOVAL STAGES 3–7
QUESTA, NM

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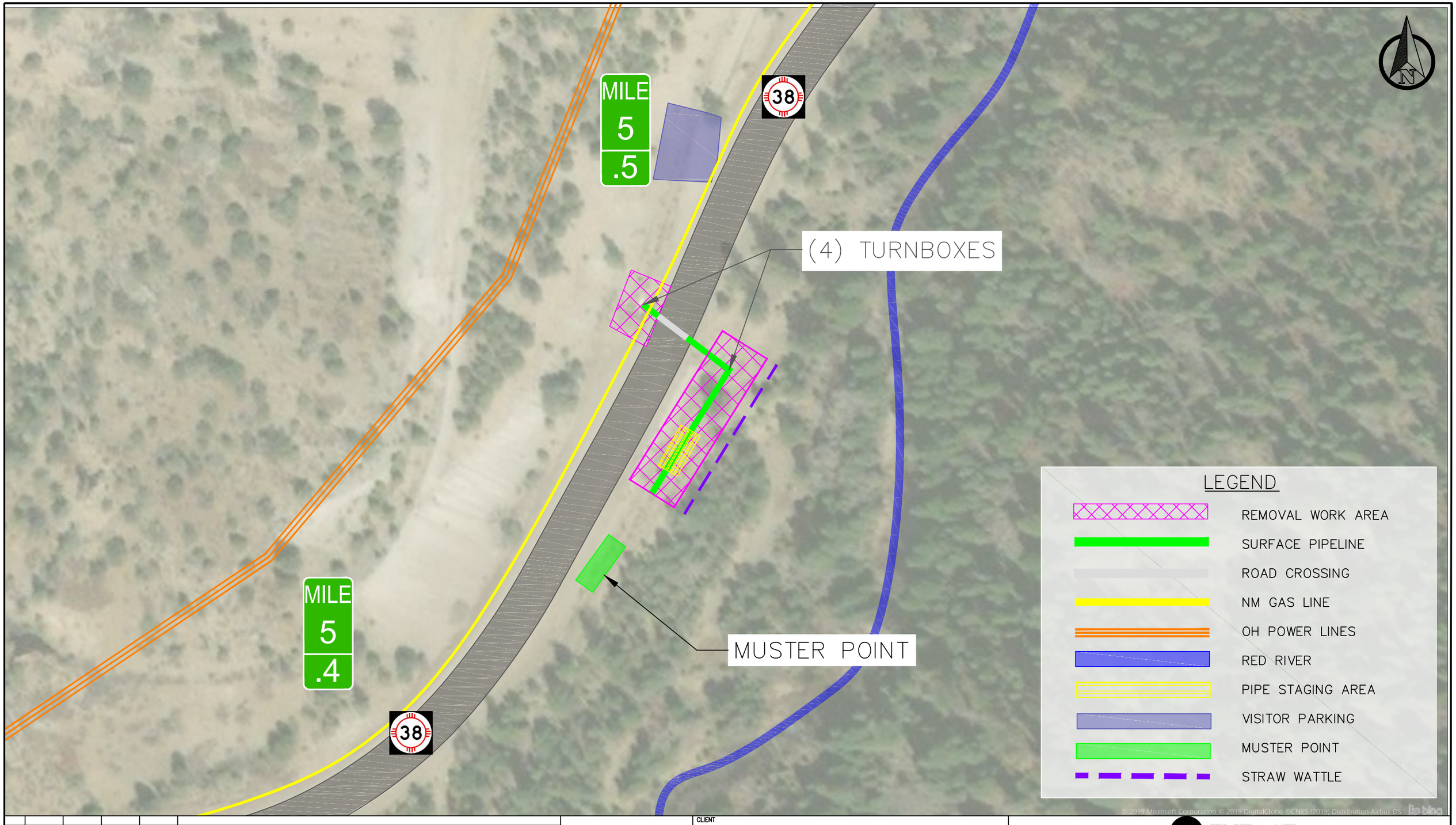
DATE	04/26/19	DATE		PROJECT NO.	XQ003-19



REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

GRAPHICAL REPRESENTATION ONLY
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0 40 80 Feet

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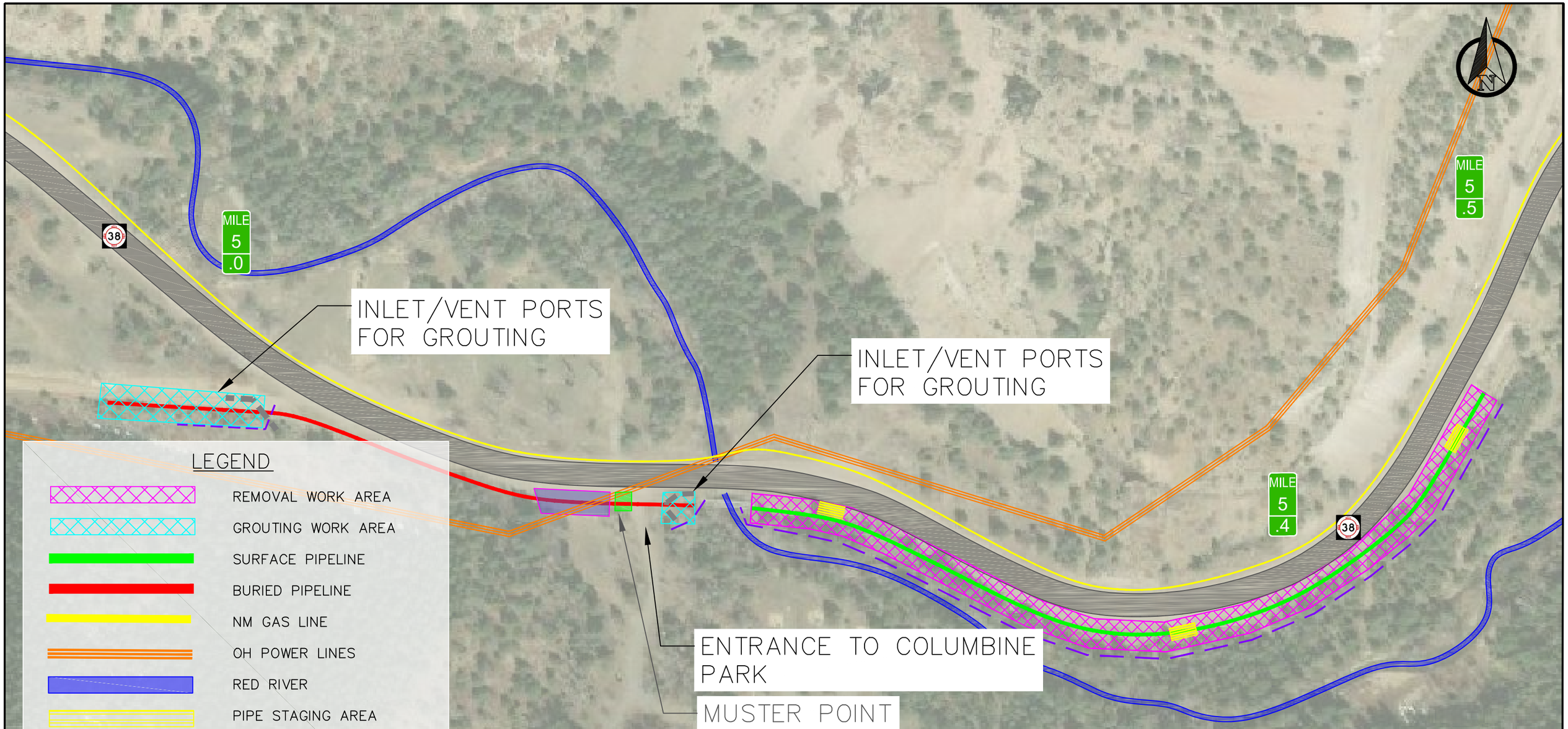
ENTACT

DRAWING NAME: SEGMENT 5.04 ALIGNMENT

PROJECT NAME & LOCATION: TAILINGS PIPELINE REMOVAL STAGES 3–7
QUESTA, NM

DRAWN BY	D. DEKALB	APPROVED BY		REV	2
DATE	04/26/19	DATE		PROJECT NO.	XQ003-19



REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

GRAPHICAL REPRESENTATION ONLY
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0 75 150 Feet

CLIENT

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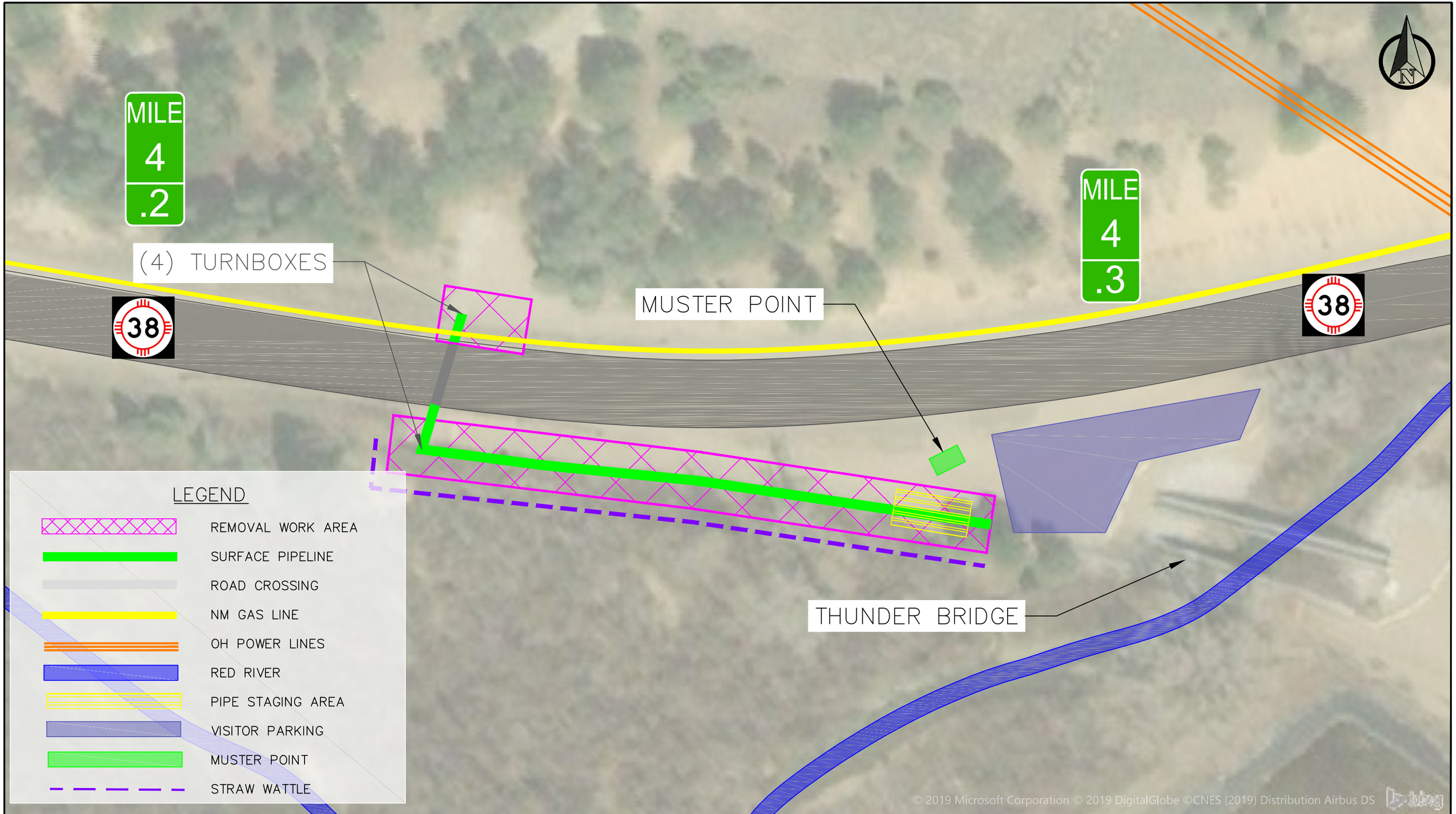
Chevron

ENTACT

DRAWING NAME: SEGMENT 5.05 ALIGNMENT

PROJECT NAME & LOCATION: TAILINGS PIPELINE REMOVAL STAGES 3–7
QUESTA, NM

DRAWN BY	D. DEKALB	APPROVED BY		REV	2
DATE	04/26/19	DATE		PROJECT NO.	XQ003-19



REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

GRAPHICAL REPRESENTATION ONLY
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0 25 50 Feet

CLIENT

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QUESTA MINE
QUESTA, NEW MEXICO

Chevron

ENTACT

DRAWING NAME: SEGMENT 5.06 ALIGNMENT

PROJECT NAME & LOCATION: TAILINGS PIPELINE REMOVAL STAGES 3–7
QUESTA, NM

DRAWN BY	D. DEKALB	APPROVED BY		REV	2
DATE	04/26/19	DATE		PROJECT NO.	XQ003–19

MUSTER POINT #2

MILE 4 .0

38

GOAT HILL GUARD SHACK

MUSTER POINT #1

MILE 4 .2

38

LEGEND

- REMOVAL WORK AREA
- SURFACE PIPELINE
- NM GAS LINE
- OH POWER LINES
- RED RIVER
- PIPE STAGING AREA
- VISITOR PARKING
- MUSTER POINT
- STRAW WATTLE

MUSTER POINT #1 FROM STA 143+50 TO 151+83
MUSTER POINT #2 FROM STA 151+83 TO 160+17

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

GRAPHICAL REPRESENTATION ONLY
NOT AN ENGINEERED DESIGN

0 75 150 Feet

CLIENT

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QUESTA MINE
QUESTA, NEW MEXICO

Chevron

ENTACT

DRAWING NAME: SEGMENT 5.07 ALIGNMENT

PROJECT NAME & LOCATION: TAILINGS PIPELINE REMOVAL STAGES 3–7
QUESTA, NM

DRAWN BY	D. DEKALB	APPROVED BY		REV	2
DATE	04/26/19	DATE		PROJECT NO.	XQ003-19

MILE 3 .0

MUSTER POINT #2

MILE 3 .5

38

GOAT HILL ENTRANCE

MUSTER POINT #1

LEGEND

- REMOVAL WORK AREA
- SURFACE PIPELINE
- NM GAS LINE
- OH POWER LINES
- RED RIVER
- PIPE STAGING AREA
- VISITOR PARKING
- MUSTER POINT
- STRAW WATTLE

MUSTER POINT #1 FROM STA 181+49 TO 194+74
MUSTER POINT #2 FROM STA 194+74 TO 208+00

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

GRAPHICAL REPRESENTATION ONLY
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0 175 350 Feet

CLIENT

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QUESTA MINE
QUESTA, NEW MEXICO

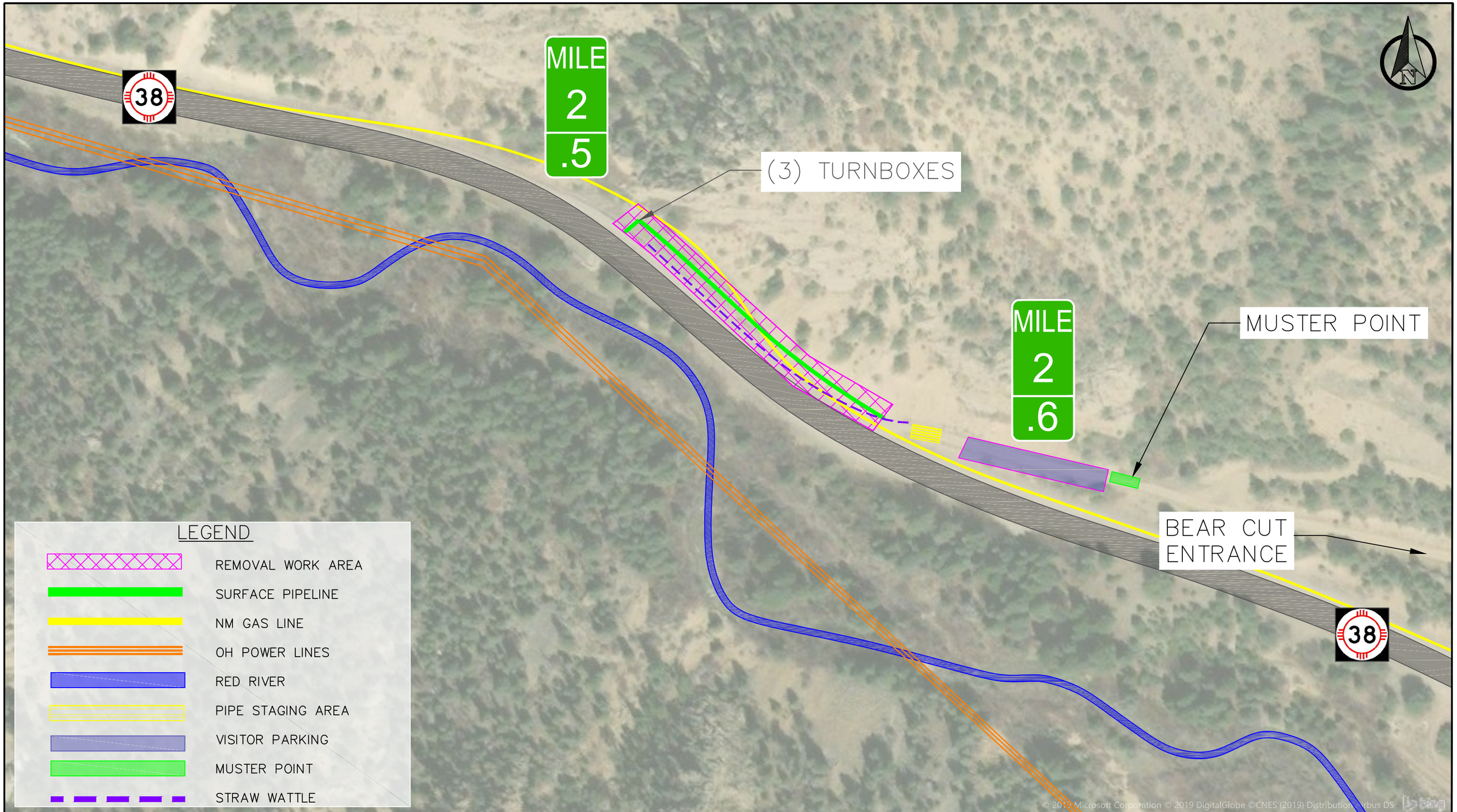
Chevron

ENTACT

DRAWING NAME: SEGMENT 5.08 ALIGNMENT

PROJECT NAME & LOCATION: TAILINGS PIPELINE REMOVAL STAGES 3-7
QUESTA, NM

DRAWN BY	D. DEKALB	APPROVED BY		REV	2
DATE	04/26/19	DATE		PROJECT NO.	XQ003-19



REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

GRAPHICAL REPRESENTATION ONLY
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0 75 150 Feet

CLIENT

CHEVRON ENVIRONMENTAL MANAGEMENT AND REAL ESTATE COMPANY
QUESTA MINE
QUESTA, NEW MEXICO

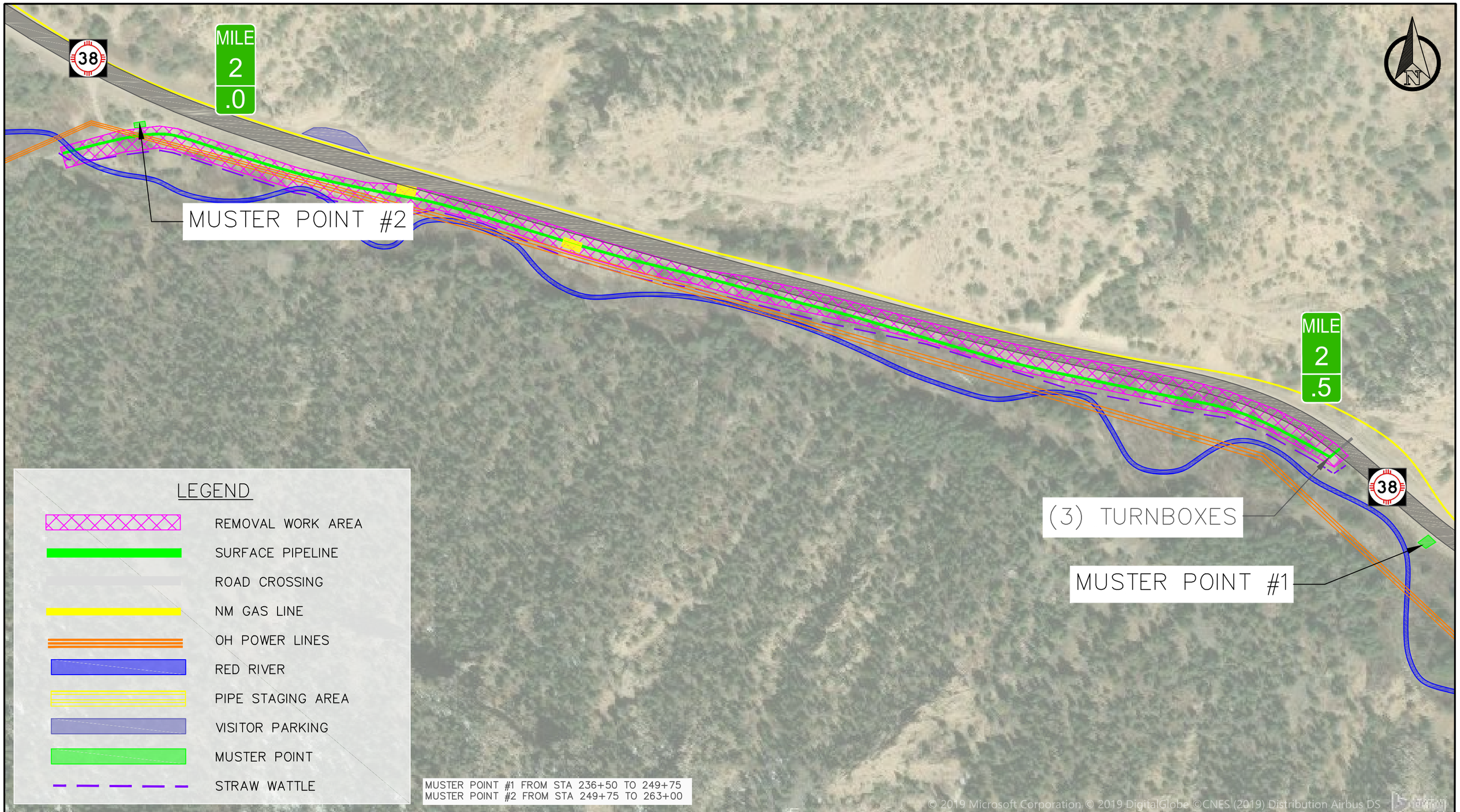
Chevron

ENTACT

DRAWING NAME: SEGMENT 5.09 ALIGNMENT

PROJECT NAME & LOCATION: TAILINGS PIPELINE REMOVAL STAGES 3–7
QUESTA, NM

DRAWN BY	D. DEKALB	APPROVED BY		REV	2
DATE	04/26/19	DATE		PROJECT NO.	XQ003–19



REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

GRAPHICAL REPRESENTATION ONLY
NOT AN ENGINEERED DESIGN

0 100 200 Feet

CLIENT

CHEVRON ENVIRONMENTAL MANAGEMENT AND REAL ESTATE COMPANY
QUESTA MINE
QUESTA, NEW MEXICO

Chevron

ENTACT

DRAWING NAME: SEGMENT 5.10 ALIGNMENT

PROJECT NAME & LOCATION: TAILINGS PIPELINE REMOVAL STAGES 3–7
QUESTA, NM

DRAWN BY	D. DEKALB	APPROVED BY		REV	2
DATE	04/26/19	DATE		PROJECT NO.	XQ003-19

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

GRAPHICAL REPRESENTATION ONLY
NOT AN ENGINEERED DESIGN

0 75 150 Feet

CLIENT

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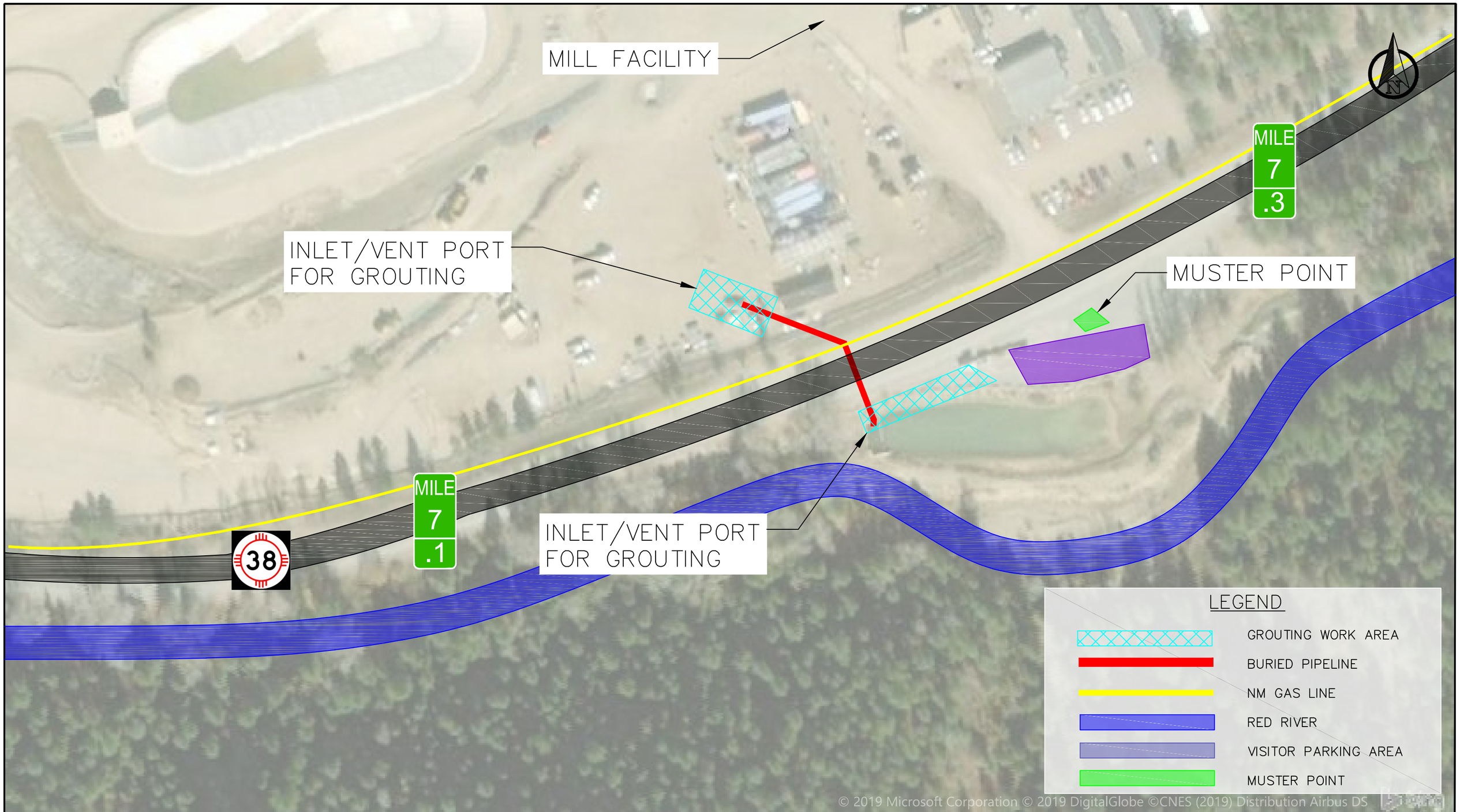
QUESTA MINE
QUESTA, NEW MEXICO

ENTACT

DRAWING NAME: SEGMENT 5.11 ALIGNMENT

PROJECT NAME & LOCATION: TAILINGS PIPELINE REMOVAL STAGES 3–7
QUESTA, NM

DRAWN BY	D. DEKALB	APPROVED BY		REV	2
DATE	04/26/19	DATE		PROJECT NO.	XQ003-19



REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

GRAPHICAL REPRESENTATION ONLY
NOT AN ENGINEERED DESIGN

0 50 100 Feet

CLIENT

CHEVRON ENVIRONMENTAL MANAGEMENT AND REAL ESTATE COMPANY
QUESTA MINE
QUESTA, NEW MEXICO

Chevron

ENTACT

DRAWING NAME: SEGMENT 5.12 ALIGNMENT

PROJECT NAME & LOCATION: TAILINGS PIPELINE REMOVAL STAGES 3–7
QUESTA, NM

DRAWN BY	D. DEKALB	APPROVED BY		REV	2
DATE	04/26/19	DATE		PROJECT NO.	XQ003–19

APPENDIX B

ASBESTOS AND LEAD SAMPLING LAB DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
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TestAmerica Job ID: 280-100940-1
Client Project/Site: Questa Pipeline - Lead and Asbestos

For:
Trihydro Corporation
1252 Commerce Drive
Laramie, Wyoming 82070

Attn: Tony Kupilik

Authorized for release by:
9/21/2017 4:43:36 PM
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Table of Contents

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 280-100940-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Trihydro Corporation

Project: Questa Pipeline - Lead and Asbestos

Report Number: 280-100940-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 09/07/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 22.2 C.

TestAmerica Denver subcontracted the Asbestos analyses to EMLab P&K. A copy of their report has been included.

TOTAL METALS (ICP)

Samples L182817 (280-100940-8), L282817 (280-100940-9), L382817 (280-100940-10), L482817 (280-100940-11), L582817 (280-100940-12), L682817 (280-100940-13), L782817 (280-100940-14), L182917 (280-100940-33), L282917 (280-100940-34), L382917 (280-100940-35), L482917 (280-100940-36), L582917 (280-100940-37), L682917 (280-100940-38), L782917 (280-100940-39), L882917 (280-100940-40), L982917 (280-100940-41), L1082917 (280-100940-42), L1182917 (280-100940-43), L183017 (280-100940-57), L283017 (280-100940-58), BL183017 (280-100940-59), BL283017 (280-100940-60), BL383017 (280-100940-61), BL483017 (280-100940-62), BL583017 (280-100940-63) and BL683017 (280-100940-64) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 09/11/2017 and analyzed on 09/12/2017 and 09/13/2017.

A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: There was insufficient volume to weigh out the SOP specified 1.0-1.5g for the following samples: L1182917 (280-100940-43), BL183017 (280-100940-59), BL283017 (280-100940-60), BL383017 (280-100940-61), BL483017 (280-100940-62), BL583017 (280-100940-63) and BL683017 (280-100940-64).

Samples L582817 (280-100940-12)[5X], L682817 (280-100940-13)[2X], L382917 (280-100940-35)[2X], L782917 (280-100940-39)[5X], L283017 (280-100940-58)[5X], BL183017 (280-100940-59)[10X], BL283017 (280-100940-60)[10X], BL383017 (280-100940-61)[5X], BL483017 (280-100940-62)[20X], BL583017 (280-100940-63)[5X] and BL683017 (280-100940-64)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-387084. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-387083. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: A182817 — Lab Sample ID: 280-100940-1

No Detections.

Client Sample ID: A282817 — Lab Sample ID: 280-100940-2

No Detections.

Client Sample ID: A382817 — Lab Sample ID: 280-100940-3

No Detections.

Client Sample ID: A482817 — Lab Sample ID: 280-100940-4

No Detections.

Client Sample ID: A582817 — Lab Sample ID: 280-100940-5

No Detections.

Client Sample ID: A682817 — Lab Sample ID: 280-100940-6

No Detections.

Client Sample ID: A782817 — Lab Sample ID: 280-100940-7

No Detections.

Client Sample ID: L182817 — Lab Sample ID: 280-100940-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	540		0.77	0.27	mg/Kg	1		6010C	Total/NA

Client Sample ID: L282817 — Lab Sample ID: 280-100940-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	590		0.66	0.23	mg/Kg	1		6010C	Total/NA

Client Sample ID: L382817 — Lab Sample ID: 280-100940-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	590		0.75	0.26	mg/Kg	1		6010C	Total/NA

Client Sample ID: L482817 — Lab Sample ID: 280-100940-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	570		0.82	0.28	mg/Kg	1		6010C	Total/NA

Client Sample ID: L582817 — Lab Sample ID: 280-100940-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	230		4.1	1.4	mg/Kg	5		6010C	Total/NA

Client Sample ID: L682817 — Lab Sample ID: 280-100940-13

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: L682817 (Continued) — Lab Sample ID: 280-100940-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	29		1.2	0.42	mg/Kg	2		6010C	Total/NA

Client Sample ID: L782817 — Lab Sample ID: 280-100940-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	550		0.83	0.29	mg/Kg	1		6010C	Total/NA

Client Sample ID: INS182817 — Lab Sample ID: 280-100940-15

No Detections.

Client Sample ID: INS282817 — Lab Sample ID: 280-100940-16

No Detections.

Client Sample ID: PL182817 — Lab Sample ID: 280-100940-17

No Detections.

Client Sample ID: G182817 — Lab Sample ID: 280-100940-18

No Detections.

Client Sample ID: G282817 — Lab Sample ID: 280-100940-19

No Detections.

Client Sample ID: G382817 — Lab Sample ID: 280-100940-20

No Detections.

Client Sample ID: G482817 — Lab Sample ID: 280-100940-21

No Detections.

Client Sample ID: A182917 — Lab Sample ID: 280-100940-22

No Detections.

Client Sample ID: A282917 — Lab Sample ID: 280-100940-23

No Detections.

Client Sample ID: A382917 — Lab Sample ID: 280-100940-24

No Detections.

Client Sample ID: A482917 — Lab Sample ID: 280-100940-25

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: A582917 — Lab Sample ID: 280-100940-26

No Detections.

Client Sample ID: A682917 — Lab Sample ID: 280-100940-27

No Detections.

Client Sample ID: A782917 — Lab Sample ID: 280-100940-28

No Detections.

Client Sample ID: A882917 — Lab Sample ID: 280-100940-29

No Detections.

Client Sample ID: A982917 — Lab Sample ID: 280-100940-30

No Detections.

Client Sample ID: A1082917 — Lab Sample ID: 280-100940-31

No Detections.

Client Sample ID: A1182917 — Lab Sample ID: 280-100940-32

No Detections.

Client Sample ID: L182917 — Lab Sample ID: 280-100940-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	670		0.73	0.25	mg/Kg	1		6010C	Total/NA

Client Sample ID: L282917 — Lab Sample ID: 280-100940-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	500		0.87	0.30	mg/Kg	1		6010C	Total/NA

Client Sample ID: L382917 — Lab Sample ID: 280-100940-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	480		1.5	0.53	mg/Kg	2		6010C	Total/NA

Client Sample ID: L482917 — Lab Sample ID: 280-100940-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	450		0.73	0.25	mg/Kg	1		6010C	Total/NA

Client Sample ID: L582917 — Lab Sample ID: 280-100940-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	280		0.79	0.27	mg/Kg	1		6010C	Total/NA

Client Sample ID: L682917 — Lab Sample ID: 280-100940-38

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: L682917 (Continued) — Lab Sample ID: 280-100940-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	120		0.77	0.27	mg/Kg	1		6010C	Total/NA

Client Sample ID: L782917 — Lab Sample ID: 280-100940-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	810		4.3	1.5	mg/Kg	5		6010C	Total/NA

Client Sample ID: L882917 — Lab Sample ID: 280-100940-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	32		0.86	0.30	mg/Kg	1		6010C	Total/NA

Client Sample ID: L982917 — Lab Sample ID: 280-100940-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	430		0.78	0.27	mg/Kg	1		6010C	Total/NA

Client Sample ID: L1082917 — Lab Sample ID: 280-100940-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	460		0.72	0.25	mg/Kg	1		6010C	Total/NA

Client Sample ID: L1182917 — Lab Sample ID: 280-100940-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	290		1.1	0.38	mg/Kg	1		6010C	Total/NA

Client Sample ID: G182917 — Lab Sample ID: 280-100940-44

No Detections.

Client Sample ID: G282917 — Lab Sample ID: 280-100940-45

No Detections.

Client Sample ID: G382917 — Lab Sample ID: 280-100940-46

No Detections.

Client Sample ID: G482917 — Lab Sample ID: 280-100940-47

No Detections.

Client Sample ID: PL182917 — Lab Sample ID: 280-100940-48

No Detections.

Client Sample ID: A183017 — Lab Sample ID: 280-100940-49

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: A283017 — Lab Sample ID: 280-100940-50

No Detections.

Client Sample ID: BA183017 — Lab Sample ID: 280-100940-51

No Detections.

Client Sample ID: BA283017 — Lab Sample ID: 280-100940-52

No Detections.

Client Sample ID: BA383017 — Lab Sample ID: 280-100940-53

No Detections.

Client Sample ID: BA483017 — Lab Sample ID: 280-100940-54

No Detections.

Client Sample ID: BA583017 — Lab Sample ID: 280-100940-55

No Detections.

Client Sample ID: BA683017 — Lab Sample ID: 280-100940-56

No Detections.

Client Sample ID: L183017 — Lab Sample ID: 280-100940-57

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	330		0.99	0.34	mg/Kg	1		6010C	Total/NA

Client Sample ID: L283017 — Lab Sample ID: 280-100940-58

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	380		5.0	1.7	mg/Kg	5		6010C	Total/NA

Client Sample ID: BL183017 — Lab Sample ID: 280-100940-59

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	390		9.3	3.2	mg/Kg	10		6010C	Total/NA

Client Sample ID: BL283017 — Lab Sample ID: 280-100940-60

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	340		8.3	2.9	mg/Kg	10		6010C	Total/NA

Client Sample ID: BL383017 — Lab Sample ID: 280-100940-61

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	250		4.3	1.5	mg/Kg	5		6010C	Total/NA

Client Sample ID: BL483017 — Lab Sample ID: 280-100940-62

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: BL483017 (Continued) — Lab Sample ID: 280-100940-62

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	630		15	5.3	mg/Kg	20		6010C	Total/NA

Client Sample ID: BL583017 — Lab Sample ID: 280-100940-63

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	240		5.5	1.9	mg/Kg	5		6010C	Total/NA

Client Sample ID: BL683017 — Lab Sample ID: 280-100940-64

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	5600		5.6	1.9	mg/Kg	5		6010C	Total/NA

Client Sample ID: INS183017 — Lab Sample ID: 280-100940-65

No Detections.

Client Sample ID: INS283017 — Lab Sample ID: 280-100940-66

No Detections.

Client Sample ID: VG183017 — Lab Sample ID: 280-100940-67

No Detections.

Client Sample ID: VG283017 — Lab Sample ID: 280-100940-68

No Detections.

Client Sample ID: VG383017 — Lab Sample ID: 280-100940-69

No Detections.

Client Sample ID: PW183017 — Lab Sample ID: 280-100940-70

No Detections.

Client Sample ID: PW283017 — Lab Sample ID: 280-100940-71

No Detections.

Client Sample ID: PW383017 — Lab Sample ID: 280-100940-72

No Detections.

Client Sample ID: PW483017 — Lab Sample ID: 280-100940-73

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL DEN
Asbestos - PLM by EPA 600/R-93/116 (pric	General Sub Contract Method	NONE	

Protocol References:

NONE = NONE

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= EMLab P&K - Denver, 4955 Yarrow Street, Arvada, CO 80002

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-100940-1	A182817	Solid	08/28/17 13:15	09/07/17 09:15
280-100940-2	A282817	Solid	08/28/17 13:54	09/07/17 09:15
280-100940-3	A382817	Solid	08/28/17 14:20	09/07/17 09:15
280-100940-4	A482817	Solid	08/28/17 14:40	09/07/17 09:15
280-100940-5	A582817	Solid	08/28/17 15:10	09/07/17 09:15
280-100940-6	A682817	Solid	08/28/17 15:35	09/07/17 09:15
280-100940-7	A782817	Solid	08/28/17 16:15	09/07/17 09:15
280-100940-8	L182817	Solid	08/28/17 13:15	09/07/17 09:15
280-100940-9	L282817	Solid	08/28/17 13:54	09/07/17 09:15
280-100940-10	L382817	Solid	08/28/17 14:20	09/07/17 09:15
280-100940-11	L482817	Solid	08/28/17 14:40	09/07/17 09:15
280-100940-12	L582817	Solid	08/28/17 14:50	09/07/17 09:15
280-100940-13	L682817	Solid	08/28/17 15:35	09/07/17 09:15
280-100940-14	L782817	Solid	08/28/17 16:15	09/07/17 09:15
280-100940-15	INS182817	Solid	08/28/17 15:55	09/07/17 09:15
280-100940-16	INS282817	Solid	08/28/17 15:55	09/07/17 09:15
280-100940-17	PL182817	Solid	08/28/17 15:55	09/07/17 09:15
280-100940-18	G182817	Solid	08/28/17 14:50	09/07/17 09:15
280-100940-19	G282817	Solid	08/28/17 14:50	09/07/17 09:15
280-100940-20	G382817	Solid	08/28/17 16:40	09/07/17 09:15
280-100940-21	G482817	Solid	08/28/17 16:40	09/07/17 09:15
280-100940-22	A182917	Solid	08/29/17 08:35	09/07/17 09:15
280-100940-23	A282917	Solid	08/29/17 09:10	09/07/17 09:15
280-100940-24	A382917	Solid	08/29/17 09:45	09/07/17 09:15
280-100940-25	A482917	Solid	08/29/17 10:05	09/07/17 09:15
280-100940-26	A582917	Solid	08/29/17 10:25	09/07/17 09:15
280-100940-27	A682917	Solid	08/29/17 11:05	09/07/17 09:15
280-100940-28	A782917	Solid	08/29/17 11:40	09/07/17 09:15
280-100940-29	A882917	Solid	08/29/17 11:55	09/07/17 09:15
280-100940-30	A982917	Solid	08/29/17 12:30	09/07/17 09:15
280-100940-31	A1082917	Solid	08/29/17 15:10	09/07/17 09:15
280-100940-32	A1182917	Solid	08/29/17 16:40	09/07/17 09:15
280-100940-33	L182917	Solid	08/29/17 08:35	09/07/17 09:15
280-100940-34	L282917	Solid	08/29/17 09:10	09/07/17 09:15
280-100940-35	L382917	Solid	08/29/17 09:45	09/07/17 09:15
280-100940-36	L482917	Solid	08/29/17 10:05	09/07/17 09:15
280-100940-37	L582917	Solid	08/29/17 10:25	09/07/17 09:15
280-100940-38	L682917	Solid	08/29/17 11:05	09/07/17 09:15
280-100940-39	L782917	Solid	08/29/17 11:40	09/07/17 09:15
280-100940-40	L882917	Solid	08/29/17 11:55	09/07/17 09:15
280-100940-41	L982917	Solid	08/29/17 12:30	09/07/17 09:15
280-100940-42	L1082917	Solid	08/29/17 15:10	09/07/17 09:15
280-100940-43	L1182917	Solid	08/29/17 16:40	09/07/17 09:15
280-100940-44	G182917	Solid	08/29/17 09:20	09/07/17 09:15
280-100940-45	G282917	Solid	08/29/17 09:25	09/07/17 09:15
280-100940-46	G382917	Solid	08/29/17 10:20	09/07/17 09:15
280-100940-47	G482917	Solid	08/29/17 10:25	09/07/17 09:15
280-100940-48	PL182917	Solid	08/29/17 10:30	09/07/17 09:15
280-100940-49	A183017	Solid	08/30/17 09:40	09/07/17 09:15
280-100940-50	A283017	Solid	08/30/17 11:10	09/07/17 09:15
280-100940-51	BA183017	Solid	08/30/17 11:15	09/07/17 09:15
280-100940-52	BA283017	Solid	08/30/17 11:20	09/07/17 09:15
280-100940-53	BA383017	Solid	08/30/17 11:25	09/07/17 09:15

Sample Summary

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-100940-54	BA483017	Solid	08/30/17 11:30	09/07/17 09:15
280-100940-55	BA583017	Solid	08/30/17 11:40	09/07/17 09:15
280-100940-56	BA683017	Solid	08/30/17 11:50	09/07/17 09:15
280-100940-57	L183017	Solid	08/30/17 09:40	09/07/17 09:15
280-100940-58	L283017	Solid	08/30/17 11:10	09/07/17 09:15
280-100940-59	BL183017	Solid	08/30/17 11:15	09/07/17 09:15
280-100940-60	BL283017	Solid	08/30/17 11:20	09/07/17 09:15
280-100940-61	BL383017	Solid	08/30/17 11:25	09/07/17 09:15
280-100940-62	BL483017	Solid	08/30/17 11:30	09/07/17 09:15
280-100940-63	BL583017	Solid	08/30/17 11:40	09/07/17 09:15
280-100940-64	BL683017	Solid	08/30/17 11:50	09/07/17 09:15
280-100940-65	INS183017	Solid	08/30/17 09:10	09/07/17 09:15
280-100940-66	INS283017	Solid	08/30/17 09:15	09/07/17 09:15
280-100940-67	VG183017	Solid	08/30/17 09:20	09/07/17 09:15
280-100940-68	VG283017	Solid	08/30/17 09:30	09/07/17 09:15
280-100940-69	VG383017	Solid	08/30/17 09:40	09/07/17 09:15
280-100940-70	PW183017	Solid	08/30/17 15:10	09/07/17 09:15
280-100940-71	PW283017	Solid	08/30/17 15:20	09/07/17 09:15
280-100940-72	PW383017	Solid	08/30/17 15:30	09/07/17 09:15
280-100940-73	PW483017	Solid	08/30/17 15:40	09/07/17 09:15

Method: 6010C - Metals (ICP)

Client Sample ID: L182817
Date Collected: 08/28/17 13:15
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	540		0.77	0.27	mg/Kg		09/11/17 13:30	09/12/17 02:35	1

Client Sample ID: L282817
Date Collected: 08/28/17 13:54
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	590		0.66	0.23	mg/Kg		09/11/17 13:30	09/12/17 02:37	1

Client Sample ID: L382817
Date Collected: 08/28/17 14:20
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	590		0.75	0.26	mg/Kg		09/11/17 13:30	09/12/17 02:40	1

Client Sample ID: L482817
Date Collected: 08/28/17 14:40
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	570		0.82	0.28	mg/Kg		09/11/17 13:30	09/12/17 02:42	1

Client Sample ID: L582817
Date Collected: 08/28/17 14:50
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	230		4.1	1.4	mg/Kg		09/11/17 13:30	09/13/17 07:21	5

Client Sample ID: L682817
Date Collected: 08/28/17 15:35
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	29		1.2	0.42	mg/Kg		09/11/17 13:30	09/13/17 07:24	2

Client Sample ID: L782817
Date Collected: 08/28/17 16:15
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	550		0.83	0.29	mg/Kg		09/11/17 13:30	09/12/17 03:00	1

Client Sample ID: L182917
Date Collected: 08/29/17 08:35
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-33
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	670		0.73	0.25	mg/Kg		09/11/17 13:30	09/12/17 03:03	1

Client Sample ID: L282917
Date Collected: 08/29/17 09:10
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-34
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	500		0.87	0.30	mg/Kg		09/11/17 13:30	09/12/17 03:05	1

Method: 6010C - Metals (ICP)

Client Sample ID: L382917
Date Collected: 08/29/17 09:45
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-35
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	480		1.5	0.53	mg/Kg		09/11/17 13:30	09/13/17 07:44	2

Client Sample ID: L482917
Date Collected: 08/29/17 10:05
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-36
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	450		0.73	0.25	mg/Kg		09/11/17 13:30	09/12/17 03:10	1

Client Sample ID: L582917
Date Collected: 08/29/17 10:25
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-37
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	280		0.79	0.27	mg/Kg		09/11/17 13:30	09/12/17 03:12	1

Client Sample ID: L682917
Date Collected: 08/29/17 11:05
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-38
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120		0.77	0.27	mg/Kg		09/11/17 13:30	09/12/17 03:15	1

Client Sample ID: L782917
Date Collected: 08/29/17 11:40
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-39
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	810		4.3	1.5	mg/Kg		09/11/17 13:30	09/13/17 14:37	5

Client Sample ID: L882917
Date Collected: 08/29/17 11:55
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-40
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	32		0.86	0.30	mg/Kg		09/11/17 13:30	09/12/17 03:43	1

Client Sample ID: L982917
Date Collected: 08/29/17 12:30
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-41
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	430		0.78	0.27	mg/Kg		09/11/17 13:30	09/12/17 03:45	1

Client Sample ID: L1082917
Date Collected: 08/29/17 15:10
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-42
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	460		0.72	0.25	mg/Kg		09/11/17 13:30	09/12/17 03:48	1

Client Sample ID: L1182917
Date Collected: 08/29/17 16:40
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-43
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	290		1.1	0.38	mg/Kg		09/11/17 13:30	09/12/17 03:50	1

Method: 6010C - Metals (ICP)

Client Sample ID: L183017
Date Collected: 08/30/17 09:40
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-57
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	330		0.99	0.34	mg/Kg		09/11/17 13:30	09/12/17 03:53	1

Client Sample ID: L283017
Date Collected: 08/30/17 11:10
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-58
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	380		5.0	1.7	mg/Kg		09/11/17 13:30	09/13/17 06:16	5

Client Sample ID: BL183017
Date Collected: 08/30/17 11:15
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-59
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	390		9.3	3.2	mg/Kg		09/11/17 13:30	09/13/17 06:28	10

Client Sample ID: BL283017
Date Collected: 08/30/17 11:20
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-60
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	340		8.3	2.9	mg/Kg		09/11/17 13:30	09/13/17 06:31	10

Client Sample ID: BL383017
Date Collected: 08/30/17 11:25
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-61
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	250		4.3	1.5	mg/Kg		09/11/17 13:30	09/13/17 06:33	5

Client Sample ID: BL483017
Date Collected: 08/30/17 11:30
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-62
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	630		15	5.3	mg/Kg		09/11/17 13:30	09/13/17 08:09	20

Client Sample ID: BL583017
Date Collected: 08/30/17 11:40
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-63
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	240		5.5	1.9	mg/Kg		09/11/17 13:30	09/13/17 06:38	5

Client Sample ID: BL683017
Date Collected: 08/30/17 11:50
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-64
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5600		5.6	1.9	mg/Kg		09/11/17 13:30	09/13/17 06:46	5

Metals

Prep Batch: 387083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-100940-39	L782917	Total/NA	Solid	3050B	
280-100940-40	L882917	Total/NA	Solid	3050B	
280-100940-41	L982917	Total/NA	Solid	3050B	
280-100940-42	L1082917	Total/NA	Solid	3050B	
280-100940-43	L1182917	Total/NA	Solid	3050B	
280-100940-57	L183017	Total/NA	Solid	3050B	
280-100940-58	L283017	Total/NA	Solid	3050B	
280-100940-59	BL183017	Total/NA	Solid	3050B	
280-100940-60	BL283017	Total/NA	Solid	3050B	
280-100940-61	BL383017	Total/NA	Solid	3050B	
280-100940-62	BL483017	Total/NA	Solid	3050B	
280-100940-63	BL583017	Total/NA	Solid	3050B	
280-100940-64	BL683017	Total/NA	Solid	3050B	
MB 280-387083/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 280-387083/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 280-387083/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

Prep Batch: 387084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-100940-8	L182817	Total/NA	Solid	3050B	
280-100940-9	L282817	Total/NA	Solid	3050B	
280-100940-10	L382817	Total/NA	Solid	3050B	
280-100940-11	L482817	Total/NA	Solid	3050B	
280-100940-12	L582817	Total/NA	Solid	3050B	
280-100940-13	L682817	Total/NA	Solid	3050B	
280-100940-14	L782817	Total/NA	Solid	3050B	
280-100940-33	L182917	Total/NA	Solid	3050B	
280-100940-34	L282917	Total/NA	Solid	3050B	
280-100940-35	L382917	Total/NA	Solid	3050B	
280-100940-36	L482917	Total/NA	Solid	3050B	
280-100940-37	L582917	Total/NA	Solid	3050B	
280-100940-38	L682917	Total/NA	Solid	3050B	
MB 280-387084/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 280-387084/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 280-387084/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

Analysis Batch: 387317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-100940-8	L182817	Total/NA	Solid	6010C	387084
280-100940-9	L282817	Total/NA	Solid	6010C	387084
280-100940-10	L382817	Total/NA	Solid	6010C	387084
280-100940-11	L482817	Total/NA	Solid	6010C	387084
280-100940-14	L782817	Total/NA	Solid	6010C	387084
280-100940-33	L182917	Total/NA	Solid	6010C	387084
280-100940-34	L282917	Total/NA	Solid	6010C	387084
280-100940-36	L482917	Total/NA	Solid	6010C	387084
280-100940-37	L582917	Total/NA	Solid	6010C	387084
280-100940-38	L682917	Total/NA	Solid	6010C	387084
280-100940-40	L882917	Total/NA	Solid	6010C	387083
280-100940-41	L982917	Total/NA	Solid	6010C	387083
280-100940-42	L1082917	Total/NA	Solid	6010C	387083

Metals (Continued)

Analysis Batch: 387317 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-100940-43	L1182917	Total/NA	Solid	6010C	387083
280-100940-57	L183017	Total/NA	Solid	6010C	387083
MB 280-387083/1-A	Method Blank	Total/NA	Solid	6010C	387083
MB 280-387084/1-A	Method Blank	Total/NA	Solid	6010C	387084
LCS 280-387083/2-A	Lab Control Sample	Total/NA	Solid	6010C	387083
LCS 280-387084/2-A	Lab Control Sample	Total/NA	Solid	6010C	387084
LCSD 280-387083/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	387083
LCSD 280-387084/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	387084

Analysis Batch: 387473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-100940-12	L582817	Total/NA	Solid	6010C	387084
280-100940-13	L682817	Total/NA	Solid	6010C	387084
280-100940-35	L382917	Total/NA	Solid	6010C	387084
280-100940-58	L283017	Total/NA	Solid	6010C	387083
280-100940-59	BL183017	Total/NA	Solid	6010C	387083
280-100940-60	BL283017	Total/NA	Solid	6010C	387083
280-100940-61	BL383017	Total/NA	Solid	6010C	387083
280-100940-62	BL483017	Total/NA	Solid	6010C	387083
280-100940-63	BL583017	Total/NA	Solid	6010C	387083
280-100940-64	BL683017	Total/NA	Solid	6010C	387083

Analysis Batch: 387616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-100940-39	L782917	Total/NA	Solid	6010C	387083

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 280-387083/1-A
Matrix: Solid
Analysis Batch: 387317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 387083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.90	0.31	mg/Kg		09/11/17 13:30	09/12/17 03:33	1

Lab Sample ID: LCS 280-387083/2-A
Matrix: Solid
Analysis Batch: 387317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 387083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	50.2		mg/Kg		100	86 - 110

Lab Sample ID: LCSD 280-387083/3-A
Matrix: Solid
Analysis Batch: 387317

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 387083

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	50.4		mg/Kg		101	86 - 110	0	20

Lab Sample ID: MB 280-387084/1-A
Matrix: Solid
Analysis Batch: 387317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 387084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.90	0.31	mg/Kg		09/11/17 13:30	09/12/17 02:25	1

Lab Sample ID: LCS 280-387084/2-A
Matrix: Solid
Analysis Batch: 387317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 387084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	50.7		mg/Kg		101	86 - 110

Lab Sample ID: LCSD 280-387084/3-A
Matrix: Solid
Analysis Batch: 387317

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 387084

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	49.9		mg/Kg		100	86 - 110	1	20

Lab Chronicle

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: L182817
Date Collected: 08/28/17 13:15
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.165 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 02:35	CML	TAL DEN

Client Sample ID: L282817
Date Collected: 08/28/17 13:54
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.371 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 02:37	CML	TAL DEN

Client Sample ID: L382817
Date Collected: 08/28/17 14:20
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.193 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 02:40	CML	TAL DEN

Client Sample ID: L482817
Date Collected: 08/28/17 14:40
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.101 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 02:42	CML	TAL DEN

Client Sample ID: L582817
Date Collected: 08/28/17 14:50
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.096 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		5			387473	09/13/17 07:21	CRR	TAL DEN

Client Sample ID: L682817
Date Collected: 08/28/17 15:35
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.491 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		2			387473	09/13/17 07:24	CRR	TAL DEN

Lab Chronicle

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: L782817
Date Collected: 08/28/17 16:15
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.078 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:00	CML	TAL DEN

Client Sample ID: L182917
Date Collected: 08/29/17 08:35
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.226 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:03	CML	TAL DEN

Client Sample ID: L282917
Date Collected: 08/29/17 09:10
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.033 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:05	CML	TAL DEN

Client Sample ID: L382917
Date Collected: 08/29/17 09:45
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.171 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		2			387473	09/13/17 07:44	CRR	TAL DEN

Client Sample ID: L482917
Date Collected: 08/29/17 10:05
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.227 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:10	CML	TAL DEN

Client Sample ID: L582917
Date Collected: 08/29/17 10:25
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.134 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:12	CML	TAL DEN

Lab Chronicle

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: L682917
Date Collected: 08/29/17 11:05
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.164 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:15	CML	TAL DEN

Client Sample ID: L782917
Date Collected: 08/29/17 11:40
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.049 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		5			387616	09/13/17 14:37	CML	TAL DEN

Client Sample ID: L882917
Date Collected: 08/29/17 11:55
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.044 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:43	CML	TAL DEN

Client Sample ID: L982917
Date Collected: 08/29/17 12:30
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.160 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:45	CML	TAL DEN

Client Sample ID: L1082917
Date Collected: 08/29/17 15:10
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.257 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:48	CML	TAL DEN

Client Sample ID: L1182917
Date Collected: 08/29/17 16:40
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.825 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:50	CML	TAL DEN

Lab Chronicle

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: L183017
Date Collected: 08/30/17 09:40
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.905 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:53	CML	TAL DEN

Client Sample ID: L283017
Date Collected: 08/30/17 11:10
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-58
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.901 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		5			387473	09/13/17 06:16	CRR	TAL DEN

Client Sample ID: BL183017
Date Collected: 08/30/17 11:15
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-59
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.482 g	50 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		10			387473	09/13/17 06:28	CRR	TAL DEN

Client Sample ID: BL283017
Date Collected: 08/30/17 11:20
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-60
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.541 g	50 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		10			387473	09/13/17 06:31	CRR	TAL DEN

Client Sample ID: BL383017
Date Collected: 08/30/17 11:25
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-61
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.526 g	50 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		5			387473	09/13/17 06:33	CRR	TAL DEN

Client Sample ID: BL483017
Date Collected: 08/30/17 11:30
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-62
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.588 g	50 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		20			387473	09/13/17 08:09	CRR	TAL DEN

Lab Chronicle

Client: Trihydro Corporation
Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: BL583017

Date Collected: 08/30/17 11:40
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-63

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.814 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		5			387473	09/13/17 06:38	CRR	TAL DEN

Client Sample ID: BL683017

Date Collected: 08/30/17 11:50
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-64

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.402 g	50 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		5			387473	09/13/17 06:46	CRR	TAL DEN

Laboratory References:

= EMLab P&K - Denver, 4955 Yarrow Street, Arvada, CO 80002

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EMLab P&K
A TestAmerica Company

Report for:

Donna Rydberg
TestAmerica-Denver
4955 Yarrow Street
Arvada, CO 80002

Regarding: Project: 280-100940-1; Questa Pipeline- Lead and Asbestos
EML ID: 1790994

Approved by:

Approved Signatory
Noah Lazarte

Dates of Analysis:
Asbestos PLM: 09-19-2017

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

EMLab P&K
4955 Yarrow Street , Arvada, CO 80002
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Denver
C/O: Donna Rydberg
Re: 280-100940-1; Questa Pipeline- Lead and Asbestos

Date of Sampling: 08-28-2017
Date of Receipt: 09-08-2017
Date of Report: 09-19-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted:	47
Total Samples Analyzed:	47
Total Samples with Layer Asbestos Content > 1%:	4

Location: 280-100940-1, A182817 Lab ID-Version‡: 8373424-1

Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-2, A282817 Lab ID-Version‡: 8373425-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-3, A382817 Lab ID-Version‡: 8373426-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-4, A482817 Lab ID-Version‡: 8373427-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-5, A582817 Lab ID-Version‡: 8373428-1

Sample Layers	Asbestos Content
Red Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-6, A682817 Lab ID-Version‡: 8373429-1

Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-7, A782817 Lab ID-Version‡: 8373430-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-15, INS182817 Lab ID-Version‡: 8373431-1

Sample Layers	Asbestos Content
Yellow Insulation	ND
Composite Non-Asbestos Content:	90% Glass Fibers 7% Cellulose
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-16, INS282817 Lab ID-Version‡: 8373432-1

Sample Layers	Asbestos Content
Yellow Insulation	ND
Composite Non-Asbestos Content:	95% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 280-100940-17, PL182817 Lab ID-Version‡: 8373433-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-18, G182817 Lab ID-Version‡: 8373434-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-19, G282817 Lab ID-Version‡: 8373435-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-20, G382817 Lab ID-Version‡: 8373436-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-21, G482817 Lab ID-Version‡: 8373437-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-22, A182817 Lab ID-Version‡: 8373438-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-23, A282817 Lab ID-Version‡: 8373439-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-24, A382817 Lab ID-Version‡: 8373440-1

Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-25, A482817 Lab ID-Version‡: 8373441-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-26, A582817 Lab ID-Version‡: 8373442-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-27, A682817 Lab ID-Version‡: 8373443-1

Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-28, A782817 Lab ID-Version‡: 8373444-1

Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-29, A882817 Lab ID-Version‡: 8373445-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-30, A982817 Lab ID-Version‡: 8373446-1

Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-31, A1082817 Lab ID-Version‡: 8373447-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-32, A1182817 Lab ID-Version‡: 8373448-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-44, G182917 Lab ID-Version‡: 8373449-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-45, G282917 Lab ID-Version‡: 8373450-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-46, G382917 Lab ID-Version‡: 8373451-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-47, G482917 Lab ID-Version‡: 8373452-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-48, PL182917 Lab ID-Version‡: 8373453-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-49, A183017 Lab ID-Version‡: 8373454-1

Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-50, A283017 Lab ID-Version‡: 8373455-1

Sample Layers	Asbestos Content
Red Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

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‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-51, BA183017 Lab ID-Version‡: 8373456-1

Sample Layers	Asbestos Content
Brown/Black Non-Fibrous Material with Paint	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-52, BA283017 Lab ID-Version‡: 8373457-1

Sample Layers	Asbestos Content
Brown/Black Non-Fibrous Material with Paint	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-53, BA383017 Lab ID-Version‡: 8373458-1

Sample Layers	Asbestos Content
Brown/Black Non-Fibrous Material with Paint	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-54, BA483017 Lab ID-Version‡: 8373459-1

Sample Layers	Asbestos Content
Brown/Black Non-Fibrous Material with Paint	ND
Sample Composite Homogeneity:	Good

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Client: TestAmerica-Denver
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Date of Sampling: 08-28-2017
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Date of Report: 09-19-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-55, BA583017 Lab ID-Version‡: 8373460-1

Sample Layers	Asbestos Content
Yellow Coating	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-56, BA683017 Lab ID-Version‡: 8373461-1

Sample Layers	Asbestos Content
Yellow Coating	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-65, INS183017 Lab ID-Version‡: 8373462-1

Sample Layers	Asbestos Content
Multicolored Insulation	ND
Composite Non-Asbestos Content:	95% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 280-100940-66, INS283017 Lab ID-Version‡: 8373463-1

Sample Layers	Asbestos Content
Yellow Insulation	ND
Composite Non-Asbestos Content:	95% Glass Fibers
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-67, VG183017 Lab ID-Version‡: 8373464-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material	ND
Composite Non-Asbestos Content:	3% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 280-100940-68, VG283017 Lab ID-Version‡: 8373465-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material	ND
Composite Non-Asbestos Content:	3% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 280-100940-69, VG383017 Lab ID-Version‡: 8373466-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material	ND
Composite Non-Asbestos Content:	3% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 280-100940-70, PW183017 Lab ID-Version‡: 8373467-1

Sample Layers	Asbestos Content
Gray Felt	40% Chrysotile
Black Tar	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Moderate

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Date of Report: 09-19-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-71, PW283017 Lab ID-Version‡: 8373468-1

Sample Layers	Asbestos Content
Gray Felt	50% Chrysotile
Black Tar	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 280-100940-72, PW383017 Lab ID-Version‡: 8373469-1

Sample Layers	Asbestos Content
Gray Felt	40% Chrysotile
Black Tar	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 280-100940-73, PW483017 Lab ID-Version‡: 8373470-1

Sample Layers	Asbestos Content
Gray Felt	50% Chrysotile
Black Tar	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-411382.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: Colorado	Page: Page 1 of 6
Company: EMLab P&K		Accreditations Required (See note): NELAP - Oregon		Job #: 280-100940-1
Address: 4955 Yarrow Street,	Due Date Requested: 9/19/2017			Preservation Codes:
City: Arvada	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CO, 80002				
Phone:	PO #:			
Email:	WO #:			Other:
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197			
Site:	SSOW#:			

Analysis Requested

001790994

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - PLM by EPA 600/R-93/116 (bulk per layer)/ Asbestos - PLM by EPA 600/R-93/116 (point counting))	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
A182817 (280-100940-1)	8/28/17	13:15 Mountain		Solid			X		
A282817 (280-100940-2)	8/28/17	13:54 Mountain		Solid			X		
A382817 (280-100940-3)	8/28/17	14:20 Mountain		Solid			X		
A482817 (280-100940-4)	8/28/17	14:40 Mountain		Solid			X		
A582817 (280-100940-5)	8/28/17	15:10 Mountain		Solid			X		
A682817 (280-100940-6)	8/28/17	15:35 Mountain		Solid			X		
A782817 (280-100940-7)	8/28/17	16:15 Mountain		Solid			X		
INS182817 (280-100940-15)	8/28/17	15:55 Mountain		Solid			X		
INS282817 (280-100940-16)	8/28/17	15:55 Mountain		Solid			X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time: 9/8/17 1400	Company: EMLab Den
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company:
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-411382.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: Colorado	Page: Page 2 of 6
Company: EMLab P&K		Accreditations Required (See note): NELAP - Oregon		Job #: 280-100940-1
Address: 4955 Yarrow Street,	Due Date Requested: 9/19/2017			Preservation Codes:
City: Arvada	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CO, 80002				
Phone:	PO #:			Other:
Email:	WO #:			
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197			
Site:	SSOW#:			

Analysis Requested

001790994

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil/waste, BT=Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9002 (Asbestos - PLM by EPA 600/R-93/116 (prep per layer)) Asbestos - PLM by EPA 600/R-93/116 (prep	Total Number of containers	Special Instructions/Note:
		Preservation Code:							
PL182817 (280-100940-17)	8/28/17	15:55 Mountain		Solid			X		
G182817 (280-100940-18)	8/28/17	14:50 Mountain		Solid			X		
G282817 (280-100940-19)	8/28/17	14:50 Mountain		Solid			X		
G382817 (280-100940-20)	8/28/17	16:40 Mountain		Solid			X		
G482817 (280-100940-21)	8/28/17	16:40 Mountain		Solid			X		
A182917 (280-100940-22)	8/29/17	08:35 Mountain		Solid			X		
A282917 (280-100940-23)	8/29/17	09:10 Mountain		Solid			X		
A382917 (280-100940-24)	8/29/17	09:45 Mountain		Solid			X		
A482917 (280-100940-25)	8/29/17	10:05 Mountain		Solid			X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/8/17 1100	Company EMLab P&K
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-411382.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: Colorado	Page: Page 3 of 6
Company: EMLab P&K		Accreditations Required (See note): NELAP - Oregon		Job #: 280-100940-1
Address: 4955 Yarrow Street,	Due Date Requested: 9/19/2017			Preservation Codes:
City: Arvada	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CO, 80002				
Phone:	PO #:			
Email:	WO #:			Other:
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197			
Site:	SSOW#:			

Analysis Requested

001790994

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - PLM by EPA 600/R-93/116 (Drop pdf layer)); Asbestos - PLM by EPA 600/R-93/116 (Gelfc	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
A582917 (280-100940-26)	8/29/17	10:25 Mountain		Solid			X		
A682917 (280-100940-27)	8/29/17	11:05 Mountain		Solid			X		
A782917 (280-100940-28)	8/29/17	11:40 Mountain		Solid			X		
A882917 (280-100940-29)	8/29/17	11:55 Mountain		Solid			X		
A982917 (280-100940-30)	8/29/17	12:30 Mountain		Solid			X		
A1082917 (280-100940-31)	8/29/17	15:10 Mountain		Solid			X		
A1182917 (280-100940-32)	8/29/17	16:40 Mountain		Solid			X		
G182917 (280-100940-44)	8/29/17	09:20 Mountain		Solid			X		
G282917 (280-100940-45)	8/29/17	09:25 Mountain		Solid			X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for any analyte/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/8/17 1500	Company EMLab Den
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:	

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-411382.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: Colorado	Page: Page 4 of 6
Company: EMLab P&K		Accreditations Required (See note): NELAP - Oregon		Job #: 280-100940-1
Address: 4955 Yarrow Street,	Due Date Requested: 9/19/2017			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone:	PO #:			
Email:	WO #:			
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Other:

001790994

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil/solid, Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - PLM by EPA 600/R-93/116 (point per layer)) Asbestos - PLM by EPA 600/R-93/116 (gric	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
G382917 (280-100940-46)	8/29/17	10:20 Mountain		Solid			X		
G482917 (280-100940-47)	8/29/17	10:25 Mountain		Solid			X		
PL182917 (280-100940-48)	8/29/17	10:30 Mountain		Solid			X		
A183017 (280-100940-49)	8/30/17	09:40 Mountain		Solid			X		
A283017 (280-100940-50)	8/30/17	11:10 Mountain		Solid			X		
BA183017 (280-100940-51)	8/30/17	11:15 Mountain		Solid			X		
BA283017 (280-100940-52)	8/30/17	11:20 Mountain		Solid			X		
BA383017 (280-100940-53)	8/30/17	11:25 Mountain		Solid			X		
BA483017 (280-100940-54)	8/30/17	11:30 Mountain		Solid			X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/8/17 1400	Company EMLab P&K
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-411382.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: Colorado	Page: Page 5 of 6
Company: EMLab P&K		Accreditations Required (See note): NELAP - Oregon		Job #: 280-100940-1
Address: 4955 Yarrow Street,	Due Date Requested: 9/19/2017			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone:	PO #:			
Email:	WO #:			
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - AmchIor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

001790994

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - PLM by EPA 600/R-93/116 (price per layer)) Asbestos - PLM by EPA 600/R-93/116 (price	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BA583017 (280-100940-55)	8/30/17	11:40 Mountain		Solid			X		
BA683017 (280-100940-56)	8/30/17	11:50 Mountain		Solid			X		
INS183017 (280-100940-65)	8/30/17	09:10 Mountain		Solid			X		
INS283017 (280-100940-66)	8/30/17	09:15 Mountain		Solid			X		
VG183017 (280-100940-67)	8/30/17	09:20 Mountain		Solid			X		
VG283017 (280-100940-68)	8/30/17	09:30 Mountain		Solid			X		
VGS83017 (280-100940-69)	8/30/17	09:40 Mountain		Solid			X		
PW183017 (280-100940-70)	8/30/17	15:10 Mountain		Solid			X		
PW283017 (280-100940-71)	8/30/17	15:20 Mountain		Solid			X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/8/17 1400	Company EMLab P&K
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-411382.6
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: Colorado	Page: Page 6 of 6
Company: EMLab P&K		Accreditations Required (See note): NELAP - Oregon		Job #: 280-100940-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 9/19/2017			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone:	PO #:			
Email:	WO #:			
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

001790994

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9/18 (Asbestos - PLM by EPA 600/R-93/116 (prep per NIOSH 9002) Asbestos - PLM by EPA 600/R-93/116 (prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PW389017 (280-100940-72)	8/30/17	15:30 Mountain		Solid			X		
PW483017 (280-100940-73)	8/30/17	15:40 Mountain		Solid			X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/8/17 1400	Company EMLab Den
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: KUPILIK	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-67249-22759.1 /
Client Contact: Tony Kupilik	Phone: (307) 745-7474	E-Mail: donna.rydberg@testamericainc.com		Page: Page 1 of 1
Company: Trihydro Corporation				Job #:

Address: 1252 Commerce Drive	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Laramie	TAT Requested (days): 10 DAY		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: WY, 82070			
Phone:	PO #: Purchase Order Requested		Other:
Email: tkupilik@trihydro.com	WO #: 17-252WO-L		
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	ASBESTOS	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
A182817	8/28/17	1315	G	S			X		
A282817	8/28/17	1354	G	S			X		
A382817	8/28/17	1420	G	S			X		
A482817	8/28/17	1440	G	S			X		
A582817	8/28/17	1510	G	S			X		
A682817	8/28/17	1535	G	S			X		
A782817	8/28/17	1615	G	S			X		

280-100940 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) LEVEL II

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
T. KUPILIK	9/6/17 @ 1500	THC		9/7/17 0915	TAD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 22.1+0.1, TR#7 transferred by JS 9/7/17

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Kupilik	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-67249-22759.1 2
Client Contact: Tony Kupilik	Phone: (307) 745-7474	E-Mail: donna.rydberg@testamericainc.com		Page: Page 1 of 1
Company: Trihydro Corporation				Job #:

Address: 1252 Commerce Drive	Due Date Requested:
City: Laramie	TAT Requested (days): 10 DAYS
State, Zip: WY, 82070	PO #: 17-252WO-L Purchase Order Requested
Phone:	WO #: 17-252WO-L
Email: tkupilik@trihydro.com	Project #: 28017197
Project Name: Questa Pipeline - Lead and Asbestos	SSOW#:
Site:	

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	LEAD	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
L182817	8/28/17	1315	G	S			X		
L282817	8/28/17	1354	G	S			X		
L382817	8/28/17	1420	G	S			X		
L482817	8/28/17	1440	G	S			X		
L582817	8/28/17	1450	G	S			X		
L682817	8/28/17	1535	G	S			X		
L782817	8/28/17	1615	G	S			X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) LEVEL II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
T. KUPILIK	9/6/17 @ 1500	THE		9/7/17 0910	MAD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: KUPILIK	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: ~~280-67249-22759.3~~ 3
Client Contact: Tony Kupilik	Phone: (307)745-7474	E-Mail: donna.rydberg@testamericainc.com		Page: Page 1 of 1
Company: Trihydro Corporation				Job #:
Address: 1252 Commerce Drive	Due Date Requested:			
City: Laramie	TAT Requested (days): 10 DAY			
State, Zip: WY, 82070				
Phone:	PO #:			
Email: tkupilik@trihydro.com	WO #: 17-252WO-L			
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Asbestos	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
INS182817	8/28/17	1555	G	S			X		
INS282817		1555					X		
PL182817		1555					X		
G182817		1450					X		
G282817		1450					X		
G382817		1640					X		
G482817		1640					X		
							1		
							1		
							1		
							1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) LEVEL II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
T. KUPILIK	9/6/17 @ 1500	THC		9/7/17 0910	TAD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: KUPILIK	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 4
Client Contact: Tony Kupilik	Phone: (307) 745-7474	E-Mail: donna.rydberg@testamericainc.com		Page: Page 1 of 1
Company: Trihydro Corporation				Job #:

Address: 1252 Commerce Drive	Due Date Requested:	
City: Laramie	TAT Requested (days): 10 DAY	
State, Zip: WY, 82070	PO #:	
Phone: (307) 745-7474	WO #: 17252WO-L	
Email: tkupilik@trihydro.com	Project #: 28017197	
Project Name: Questa Pipeline - Lead and Asbestos	SSOW#:	
Site:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	ASBESTOS	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
A1 82917	8/29/17	0835	G	S			X		
A2 82917		0910					X		
A3 82917		0945					X		
A4 82917		1005					X		
A5 82917		1025					X		
A6 82917		1105					X		
A7 82917		1140					X		
A8 82917		1155					X		
A9 82917		1230					X		
A10 82917		1510					X		
A11 82917		1640					X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) LEVEL II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	T. KUPILIK	9/6/17 @ 1500	THC		9/7/17 0910	TAL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: KUPILIK	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 5
Client Contact: Tony Kupilik	Phone: (307) 745-7474	E-Mail: donna.rydberg@testamericainc.com		Page: Page 1 of 1
Company: Trihydro Corporation				Job #:
Address: 1252 Commerce Drive	Due Date Requested:			
City: Laramie	TAT Requested (days): 10 DAY			
State, Zip: WY, 82070				
Phone:	PO #:			
Email: tkupilik@trihydro.com	WO #: 17-252WO-L			
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	LEAD	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
L1 82917	8/29/17	0835	G	S					
L2 82917		0910							
L3 82917		0945							
L4 82917		1005							
L5 82917		1025							
L6 82917		1105							
L7 82917		1140							
L8 82917		1155							
L9 82917		1230							
L10 82917		1510							
L11 82917		1640							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) LEVEL II

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
T. KUPILIK	9/6/17 @ 1500			9/7/17 0910	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: KUPILIK	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 6
Client Contact: Tony Kupilik	Phone: (307) 745-7474	E-Mail: donna.rydberg@testamericainc.com		Page: Page 1 of 1
Company: Trihydro Corporation				Job #:
Address: 1252 Commerce Drive	Due Date Requested:			
City: Laramie	TAT Requested (days): 10 DAY			
State, Zip: WY, 82070	PO #:			
Phone:	WO #: 17-252WO-L			
Email: tkupilik@trihydro.com	Project #: 28017197			
Project Name: Questa Pipeline - Lead and Asbestos	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	ASBESTOS	Total Number of containers	Special Instructions/Note:
Preservation Code:									
G1 82917	8/29/17	0920	G	S			X		
G2 82917		0925					X		
G3 82917		1020					X		
G4 82917		1025					X		
PL1 82917		1030					X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify): LEVEL II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
T. KUPILIK	9/6/17 @ 1500	THC		9/7/17 0915	DAI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: KUPILIK	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 7
Client Contact: Tony Kupilik	Phone: (307)745-7474	E-Mail: donna.rydberg@testamericainc.com		Page: Page 1 of 1
Company: Trihydro Corporation				Job #:

Address: 1252 Commerce Drive	Due Date Requested:
City: Laramie	TAT Requested (days): 10 DAY
State, Zip: WY, 82070	
Phone:	PO #:
Email: tkupilik@trihydro.com	WO #: 17-252WO-L
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197
Site:	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	ASBESTOS	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
A183017	8/30/17	0940	G	S			1		
A283017		1110					1		
BA183017		1115					1		
BA283017		1120					1		
BA383017		1125					1		
BA483017		1130					1		
BA583017		1140					1		
BA683017		1150					1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify): LEVEL II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
T. KUPILIK	9/6/17 @ 1500	THC		9/7/17 0915	TAD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: KUPILIK	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 8
Client Contact: Tony Kupilik	Phone: (307) 745-7474	E-Mail: donna.rydberg@testamericainc.com		Page: Page 1 of 1
Company: Trihydro Corporation				Job #:
Address: 1252 Commerce Drive	Due Date Requested:			
City: Laramie	TAT Requested (days): 10 DAY			
State, Zip: WY, 82070				
Phone:	PO #:			
Email: tkupilik@trihydro.com	WO #: 17-252WO-L			
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	LEAD	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
L183017	8/30/17	0940	G	S			X		
L283017		1110					X		
BL183017		1115					X		
BL283017		1120					X		
BL383017		1125					X		
BL483017		1130					X		
BL583017		1140					X		
BL683017		1150					X		
							1		
							1		
							1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) LEVEL II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
T. KUPILIK	9/6/17 @ 1500	THC		9/7/17 0915	TP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: KUPILIK	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 9
Client Contact: Tony Kupilik	Phone: (307) 745-7474	E-Mail: donna.rydberg@testamericainc.com		Page: Page 1 of 1
Company: Trihydro Corporation				Job #:
Address: 1252 Commerce Drive	Due Date Requested:			
City: Laramie	TAT Requested (days): 10 DAY			
State, Zip: WY, 82070	PO #:			
Phone:	WO #: 17-252WO-6			
Email: tkupilik@trihydro.com	Project #: 28017197			
Project Name: Questa Pipeline - Lead and Asbestos	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - Di Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	ASBESTOS	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
INS183017	8/30/17	0910	G	S		X	X		
INS283017		0915				X	X		
VG183017		0920				X	X		
VG283017		0930				X	X		
VG383017		0940				X	X		
PW183017		1510				X	X		
PW283017		1520				X	X		
PW383017		1530				X	X		
PW483017		1540				X	X		
						-			
						-			

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) LEVEL II

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
T. KUPILIK	9/6/17 @ 1500	THC		9/7/17 0910	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Trihydro Corporation

Job Number: 280-100940-1

Login Number: 100940
List Number: 1
Creator: True, Joshua A

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

BORROW AREA MAP

ENTACT.

BORROW AREAS

EST. 13 ACRES

EST. 24 ACRES

SOLAR FACILITY

EASTERN DIVERSION CHANNEL

DAM 2

Gonzales Rd

Wildcat Rd

Ojitas De Questa Rd

Mtn View Rd

Abra Rd

Old Hwy 3

522

N

1000 ft

Google Earth

APPENDIX D

EXAMPLE FIELD AND HEALTH AND SAFETY FORMS

Pre-Fieldwork Safety-Readiness Review Form

For all field projects

Names and initials of required participants:

1. BUL, BUM, or TL:
2. Project Director:
3. Project Manager:
4. Field Supervisor:
5. Safety Officer/Lead:

Business unit name:
Client name:
Project name and number:
Date review performed:
Scheduled project-start date:
Scheduled project-end date:

Names and initials of other participants:

1. Project-team members:
2. Contractor(s):
3. Subcontractor(s):

Work-Scope Tasks	Work-Related Hazards (refer to the 3x5 Hazard-Assessment Triangle)	Anticipated Hazard-Mitigation Measures

	Pre-Fieldwork Safety-Readiness Review Checklist	Yes	No	N/A	CAN
1	Has the project team secured the necessary safety and other work permits required to complete the proposed work?				
2	Has a project-specific or site-specific HASP been prepared and/or updated, and have all project-team members reviewed the HASP?				
3	If a contractor(s) will be used on this project, have they prepared and/or updated their HASP and JSA forms?				
4	Has the project team been reminded that JSAs need to be prepared by the project's subject-matter experts, reviewed by all members of the project team, and marked up where appropriate before starting and during work each day?				
5	If this project involves one or more lone workers, is a plan to manage lone worker safety in place and communicated with the project team?				
6	Do we know if the project site has reliable cell-phone coverage? [*If not, request a phone booster from Autumn Bainer* .]				
7	Has a hand-safety evaluation been completed for this project?				
8	Has each work space been evaluated (and documented) for the possible presence of confined-space work conditions?				
9	Have team members--including contractors and subcontractors--reviewed and understand the project-site hazards and requirements?				
10	Do all project-team members--including contractors and subcontractors--understand Stop Work Authority and the "Slow Down" approach?				
11	Have all applicable PPE (e.g., PID, FID, H2S detector, etc.) and emergency-response equipment been secured and checked for this project?				
12	Have suitable vehicles been secured and are team members familiar with the vehicle types and operation?				
13	If a client site-specific orientation is required, have all team members completed the required training?				
14	Have SSE mentors been assigned and provided with instructions for overseeing each SSE team member?				
15	Is a plan in-place and assignments made to provide oversight of "low-use" or special contractor/subcontractor team members?				
16	Have topics been developed and assignments made for the daily project-safety meetings, including discussing potential daily- and task-specific hazards?				
17	Has the plan for performing and reporting observations, near misses, and incidents been communicated?				
18	Has the project team been reminded that journey-management plans (JMPs) should be used during the project where appropriate?				
19	Is a traffic-management plan needed for this project and has it been completed and communicated to the project team?				
20	Have procedures for work in or near hazardous areas (e.g., trenches, confined spaces, active units) been communicated?				
21	Have procedures for work in or around equipment (e.g., lockout / tag out, swinging, rotating, backing) been communicated?				
22	Has the Trihydro Excavation, Drilling, and Utility-Locating Checklist been completed for each drilling/excavation project?				
23	Have all employees expecting to oversee or perform drilling/excavation work completed the Trihydro "Subsurface Utility Location and Excavation Safety Best Practices" training session?				
24	Have utility locates been assigned and/or performed in accordance with Trihydro and client procedures?				
25	Is a plan in place for communicating, managing, and reporting changed conditions (e.g., hazards, weather, team roles)?				
26	Is a plan in place for transitioning and training changes in personnel on this project?				
27	Has the project team assessed potential task- or site-specific hazards and developed a plan(s) to eliminate or mitigate the hazards?				
28	Is a BUL, BUM, TL, or Senior Manager scheduled to be on site for the onboarding, kickoff, and initial stages of each major field project (e.g., projects involving subcontractors, complex or different work types, > one week duration, etc.)? If so, please indicate the name of the BUL, BUM, TL, or Senior Manager and the date she or he is scheduled to be on site in the "Review / Non-CAN Item Comments" box below.				
29	Have all contractors/subcontractors been evaluated, qualified, selected, and approved by the BUL based on Trihydro and/or client-specific requirements?				
30	Is a safety audit with a Senior Manager planned for the early stages of all major field projects? If so, please indicate the Senior Manager's name and the date he or she plans to perform the safety audit in the "Review / Non-CAN Item Comments" box below.				

Findings / Corrective-Action Needed (CAN) Summary

CAN Item No. (i.e., 1 through 30 from the checklist above)	Description of CAN Item	Responsible Person	Target Date	Completed Date	Initials

Review / Non-CAN Item Comments:

Pre-Fieldwork Safety-Readiness Review Form

For all field projects

Instructions:

1. While using this form, attempts should be made to address or correct the items warranting Corrective Action Needed (CAN) at the time of the evaluation. If this is not practical, each CAN item / finding should be documented above, including assignment of an individual responsible for addressing the CAN item and a target completion date. Once all of the CAN items have been completed, the Project Manager should review them with the responsible TL, BUM, or BUL and secure sign-off initials that each CAN item has been addressed satisfactorily.

2. Copies of this form should be retained by the responsible TL, BUM, and/or BUL and submitted to the Trihydro H&S Team via e-mail HealthSafety@Trihydro.com or fax (307) 755-4959. Please contact the Trihydro H&S Team for help conducting pre-fieldwork safety-readiness reviews, or if you have questions, suggestions, or comments about the forms.

JOB SAFETY ANALYSIS

JSA Version Date: February 29, 2012		
Job Description: Driving		
Project: Questa	Site Location: Site wide	

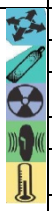
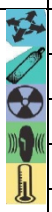
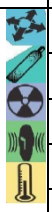
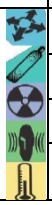
Development Team Please include the team members employer and email if not employed by Trihydro Corporation:	**Position/Title:**	**Primary Contact**
1. Pat Henricks	Geologist	(307) 760-9447
2.		
3.		

Reviewed By Please include the reviewers employer and email if not employed by Trihydro Corporation:	**Position**	**Review Date (MM/DD/YYYY)**
1. Todd Forry	Health and Safety Manager	10/25/2012
2. Torrey Fox	Geologist	6/10/11
3.		

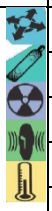
Personal Protective Equipment (PPE) Needed:

Eye and Face Protection	***Body Protection***	***Fall Protection***
☐ Safety Glasses	☐ Fire Retardant Coveralls	☐ Barriers/Guard Rails
☐ Face Shield	☐ Poly-coated Tyvek Coveralls	☐ Safety Net
☐ Chemical Goggles	☐ Chemical Resistant Coveralls	☐ Personal Fall Arrest System
Head Protection	☐ Chemical Resistant Apron	***Respiratory Protection***
☐ Hard Hat	☐ Reflective Safety Vest	☐ Half-Face Air Purifying Respirator
Hearing Protection	☐ Cooling Vest	☐ Full-Face Air Purifying Respirator
☐ Ear Plugs	☐ Long sleeved shirt	☐ Chemical Cartridge
☐ Ear Muffs	***Biological Protection***	☐ Particulate Filter
Hand Protection	☐ Snake Gaiters	☐ Cartridge/Filter Combo
☐ Industrial Work Gloves	☐ Sunscreen	☐ Ammonia Cartridge
☐ Chemical Resistant Gloves	☐ Insect Repellant	☐ H2S Escape Cartridge
☐ Laceration Resistant Gloves	***Hazardous Atmosphere Protection***	☐ Asbestos Filter (P-100)
Foot Protection	☐ Air Monitoring Equipment	☐ Powered Air Purifying Respirator (PAPR) **(contact H&S dept.)**
☐ Leather Boots	☐ Ventilation Fan	
☐ Steel-Toed Boots	☐ Level C	☐ Supplied Air Respirator (SAR) **(contact H&S dept.)**
☐ Chemical Resistant Boots	☐ Level B **(contact H&S dept.)**	
Water Safety	☐ Level A **(contact H&S dept.)**	☐ Self-Contained Breathing Apparatus (SCBA) **(contact H&S dept.)**
☐ Personal Flotation Device	***Decontamination Materials***	
☐ Waders	☐ Equipment Decontamination	
☒ ***Other:*** Fire extinguisher	☐ Personnel Decontamination	☐ ***Other:***
☒ ***Other:*** First aid/vehicle kit	☒ ***Other:*** GOAL cones	☐ ***Other:***

Job Steps	Hazard(s)				Potential Hazard(s)	Critical Action(s)	Responsible Person
Routine or non-routine journey management plan (JMP) – check (all drivers)		 X 		X 	A. Personal Injury (Gravity) B. Property damage or physical injury (Motion)	A. Check the JMP before proceeding to the vehicle. B. Assess if journey is needed due to weather conditions (e.g., snow, ice, rain, wind). Check before each vehicle trip around the site since work areas can be changed throughout the day.	
Perform vehicle inspection (all drivers)		 X		X 	A. Vehicle failure; Accident or injury (Gravity) (Motion)	A. Fill out vehicle inspection form for any vehicles used for the day. DO NOT use vehicle until issues are addressed. • Clean mirrors and windows. Inspect the interior of the vehicle; including seat belts and gauges. • Remove any clutter or items that may affect your driving, visibility or pedal control. • Follow appropriate maintenance schedule for your vehicle. • Verify insurance card, registration, and inspection. • Refer to the owner/operator manual generally kept in the glove box. • Verify presence of spill kit, first aid kit, and fire extinguisher within inspection period	
4. Pre vehicle entry				X	A. Personal Injury or accident;	A. GOAL: before entering your	

Job Steps	Hazard(s)				Potential Hazard(s)	Critical Action(s)	Responsible Person
				x			
Configure seating and controls and lock doors (all drivers)				x	A. Personal Injury Visibility; poor driver ergonomics and/or poor driver control (Motion)	A. Adjust seating to a comfortable position and so that you can easily reach the pedals and steering wheel. • Adjust all mirrors. • Wear seat belt. • If you haven't operated this vehicle before, become familiar with all the controls and where everything is located in the vehicle. • Look for blind spots in your viewing area. • Refer to the owner's manual if necessary.	
Starting vehicle (all drivers)				x	A. Unexpected vehicle movement; engine damage or failure (Motion)	A. Before starting, ensure that the vehicle is in park and the parking brake is applied. • After starting, check all gauges for proper temperatures, pressures, etc.	
Pulling away from parked area (all drivers)		x		x	A. Collision with other vehicles, objects or persons (Gravity) (Motion)	A. Check mirrors and over the shoulder before pulling away. • Vehicle should be situated so the first movement is forward, however if backing, either use a spotter or blow horn to warn others. • Proceed cautiously.	
Driving (all drivers)		x x		x	A. Vehicle strikes; vehicle accidents; equipment damage (Gravity) (Motion) B. Collision with wildlife (Biological)	A. Follow JMP applicable to your journey. Review driving JSA. Plan your route, review maps before leaving. • Obey all laws of the land as well as site procedures.	

Job Steps	Hazard(s)				Potential Hazard(s)	Critical Action(s)	Responsible Person
						Follow posted speed limit. • Be prepared to 'expect the unexpected'. You never know what someone else (or animals) might do. • NEVER drive under the influence of drugs or alcohol. • Follow posted signs at other locations. • Never operate the vehicle if you are abnormally tired. • Cell phone usage is prohibited while driving a vehicle, including hands free devices such as headset and speaker phones. • Implement 'first move forward' by backing into locations upon arrival. • Be observant of pedestrians (main field office area) and other traffic around you. • Engage parking brake once vehicle is parked. Do not place equipment/supplies above mirror line of sight (i.e., inside cab and or truck bed). • Pull off the road if necessary during bad weather. B. Scan the area for wildlife including dogs, cats, deer, cows, horses, elk, coyotes, fox's, badgers, and prairie dogs while traveling on site. Watch road sides for movement and pull vehicle to side of road if animal observed. Be particularly aware of animals present in roadway during dusk and morning.	
Parking (all drivers)		 X		X 	A. Pedestrian collision / Property damage(Gravity)(Motion)	A. Use pull through parking spots when available • Use signals before pulling from curb and during any change of lane or turn	

Job Steps	Hazard(s)				Potential Hazard(s)	Critical Action(s)	Responsible Person
						• Back into parking space when possible and safe • Maintain a cushion of safety from fixed objects when parking • Set parking brake if on incline; chock wheels if working on steep slopes	
Post drive (all drivers)		 **X** X 		**x** 	A. Personal Injury / Property damage (Gravity)(Motion)	A. Report vehicle problems to company representative or rental car agency.	

As the Supervisor my signature below indicates that the requirements, conditions, and procedures listed above are in place and have been verified and reviewed with the affected personnel prior to the start of work.

Supervisor Name (print):	**Signature**	**Date**

Prior to work, I have read and understand the PPE, safety tools/equipment/instruments, and associated permits needed for this task. I also understand the job steps, potential hazards, and critical actions identified for employee task and hazard awareness. I agree to have this JSA on site and identify daily variances and understand I can make pen and ink changes to meet those variances. JSAs used at the task site that contain pen-and-ink changes ("dirtying up") are to be kept in the project folder for record.

Name (print):	**Signature**	**Date**

END OF DAY

REVISIONS TO JSA
(Any tasks that were "dirtied up")

Date	Job Step #	REVISION	Does JSA need to be updated permanently?		Responsible Person
			Yes	No	

DAILY TAILGATE SAFETY MEETING

NOTE: A new tailgate meeting must be conducted if conditions, location, or personnel change.

Date: _____ Time: _____ ☐ a.m. ☐ p.m. Location: _____(city, state)

Project Name: _____ Client: _____

Current Objective/Description: _____

_____

Commitment to Safety

1. I will protect myself for me, my family, Trihydro, clients, and contractors by watching for and mitigating risky behaviors, exercising stop-work authority to prevent incidents and injuries and by complying with Trihydro and client policies, procedures, and JSAs/JLAs
2. I understand that safety is my personal responsibility and that working safely is a key component in providing quality work.
3. I will set an example for my fellow employees, contractors, clients, and family by working safely.
4. I will drive defensively and "Safely for My Family," abiding by Trihydro and client policies and applicable laws and regulations.
5. I will "slow down" appropriately to work at a pace that will allow me and others to complete each task efficiently and safely.
6. I will hold myself accountable for my safety and the safety of those around me. I will think about the safety of me, my coworkers, contractors, and our clients before I conduct each task.

** Stop Work Authority (SWA) – "Everyone has the authority and obligation to immediately stop all unsafe work."*

Identify High-Hazard Work:

- ☐ Hot Work
- ☐ LOTO
- ☐ Confined Space Entry
- ☐ Elevated/overhead work
- ☐ Excavations - any
- ☐ Drilling - any
- ☐ Boat / over-water operations
- ☐ Demolition, removal of pipelines and buried structures
- ☐ Work involving equipment within 15' of active overhead electrical line or pole supporting an electric line

Associated and Identified Hazards:

- ☐ Abrasions, cuts, scrapes
- ☐ Allergies (self & co-workers)
- ☐ Asbestos
- ☐ Biological
- ☐ Buried utilities
- ☐ Burn hazards
- ☐ Chemical exposure
- ☐ Cold stress
- ☐ Compressed gases
- ☐ Crane or lifting equipment
- ☐ Drilling in area?
- ☐ Earthquake
- ☐ Electrical
- ☐ Equipment failure
- ☐ Ergonomic
- ☐ Excavations in area?
- ☐ Falling
- ☐ Fire/explosion
- ☐ H_2S
- ☐ Hand injury
- ☐ Heat stress
- ☐ Heavy equipment
- ☐ High-pressure processes
- ☐ High-temperature processes
- ☐ High wind
- ☐ Laceration
- ☐ Lightning
- ☐ Loud noise
- ☐ Machine guarding
- ☐ Motor vehicle crash
- ☐ No locking/fixed blades
- ☐ Overexertion
- ☐ Overhead utilities
- ☐ Pedestrian
- ☐ Pinch points
- ☐ Power tools
- ☐ Pulled into
- ☐ Radiation/X-ray
- ☐ Security
- ☐ Severe weather
- ☐ Scaffolds
- ☐ Slips, trips, falls
- ☐ Subsurface utilities
- ☐ Traffic
- ☐ Water
- ☐ Other: _____

See it! Identify Current Objective Hazards:

Assess Trihydro's 3 Most Serious Risks

- ☐ Traffic/Heavy Equipment
- ☐ Hazardous Atmosphere
- ☐ Utility Contact

Assess Trihydro's 5 Most Frequent Risks

- ☐ Hand Injuries
- ☐ Lifting
- ☐ Biological Hazards
- ☐ Chemical Exposure
- ☐ Slips, trips, falls

Other Hazards

- ☐ Weather
- ☐ Working at Heights

Personal Protective Equipment (PPE):

- ☐ Hard hat
- ☐ Safety glasses
- ☐ Safety toed boots
- ☐ Ear plugs (as needed)
- ☐ Face shield
- ☐ Fall protection
- ☐ Gloves (as needed)
- ☐ Arm sleeves
- ☐ High visibility vest
- ☐ Rain gear
- ☐ Rubber boots
- ☐ SCBA
- ☐ Snake chaps
- ☐ Sunscreen (as needed)
- ☐ Dust mask
- ☐ Respirator
  Cartridges/filters:
  - ☐ VOC/H_2S escape
- ☐ H_2S monitor
  - ☐ Bump test
- ☐ FRCs/Nomex
- ☐ Tyvek®
- ☐ Insect repellant

Do not apply DEET to FRCs

Other special equipment:

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

Before Beginning Work:

- ☐ Sign in and out of process unit ☐ N/A
- ☐ HASP reviewed & acknowledged
- ☐ Locate the nearest evacuation point and a secondary location
- ☐ Identify the nearest fire extinguisher, eyewash station, first aid kit, and Material Safety Data Sheets (MSDS)
- ☐ Identify CPR/AED/first aid certified employees
- ☐ If lone worker, implement lone worker procedures ☐ N/A
- ☐ Identify SSE, visitor(s), or guest(s) ☐ N/A
- ☐ Determine and acquire necessary permits ☐ N/A

  Permit required: _____
- ☐ Review the JSA and "dirty up" if necessary
- ☐ Weather forecast: ☐ Hot ☐ Cold ☐ Inclement
  Wind Direction: _____
- ☐ Employee(s) are wearing proper PPE
- ☐ Perform a "self check" on each personal H_2S monitor
- ☐ Perform a Work-Site Self Assessment (WSSA)
- ☐ Review the dashboard emergency flyer for the specific site; place in a visible location inside vehicle
- ☐ Barricade work zone (as needed)
- ☐ Review WorkCare Injury Accident Program card
- ☐ PPE Action Levels (PID: 10ppm)

Safe Vehicle Use:

- ☐ Pre-inspection complete
- ☐ Seat belt
- ☐ Follow all speed and traffic rules
- ☐ Emergency brake used
- ☐ Keys left in vehicle
- ☐ Trailer Safety Inspection form
- ☐ Mileage sheet filled out
- ☐ No cell phones used while driving
- ☐ Parked in a safe location
- ☐ Orange cone used
- ☐ Chock tires (if needed)
- ☐ Other: _____
- ☐ GOAL sticker in window
- ☐ Spotter used (if available)
- ☐ First move forward, backed in
- ☐ Load secured in vehicle
- ☐ 3D-Driving (every 2 years)
- ☐ Other: _____

Site-Specific Comments:_____

_____

Positive Reinforcement (R+):_____

Signatures:

Meeting Conducted By: _____ (designated project on-site safety responder) Company:

Printed Name	Signature	Company	Attended Mid-Day Safety Focus	Is this worker new on-site?
1.			☐ Yes ☐ No	☐ Yes ☐ No
2.			☐ Yes ☐ No	☐ Yes ☐ No
3.			☐ Yes ☐ No	☐ Yes ☐ No
4.			☐ Yes ☐ No	☐ Yes ☐ No
5.			☐ Yes ☐ No	☐ Yes ☐ No
6.			☐ Yes ☐ No	☐ Yes ☐ No
7.			☐ Yes ☐ No	☐ Yes ☐ No
8.			☐ Yes ☐ No	☐ Yes ☐ No

JOURNEY MANAGEMENT PLAN

Date: _____ Project Number: _____ Driver: _____

Destination: _____ Driver Cell Number: _____

Departure Time: _____ Anticipated Arrival Time: _____

Total Hours (not to exceed 16 hours): _____ = Work Hrs _____ + Driving Hrs _____

Plan the journey and notify personnel at destination of your plans. Notify arrival contact if you will not arrive at scheduled time. Keep a copy of this plan with you. Trihydro's main phone number is 307-745-7474. Normal business hours are 8am-5pm, M-F.

In case of an emergency or incident, contact the Health & Safety Response Team at (307) 755-4888.

Purpose of Trip _____

Hazards

_____

Pre-Trip Questions

Is this trip necessary?	☐ Yes	☐ No
Is there an alternative that does not involve driving?	☐ Yes	☐ No
If yes, by what means: _____		
Is someone else already going to the same destination?	☐ Yes	☐ No
Do I have a map to my destination?	☐ Yes	☐ No
Has the proper vehicle been selected?	☐ Yes	☐ No
Is the vehicle equipped with emergency supplies?	☐ Yes	☐ No
Do I have current driver training for this trip?	☐ Yes	☐ No
Am I well rested and alert for the journey?	☐ Yes	☐ No
Do I have effective means of communications during my journey?	☐ Yes	☐ No
Has a pre-trip vehicle inspection been completed and documented?	☐ Yes	☐ No
Have road condition reports been reviewed prior to the journey?	☐ Yes	☐ No

Weather: ☐ Dry ☐ Windy ☐ Rain ☐ Snow ☐ Icy ☐ Fog ☐ Dust

Road Conditions: ☐ Dirt Road ☐ Construction ☐ Paved Road ☐ Mixed Conditions

Night Driving: ☐ Yes ☐ No Is it essential? ☐ Yes ☐ No

Vehicle: ☐ Fleet Vehicle ☐ Rental Vehicle ☐ Personal Vehicle

Make*: _____ Model*: _____ Year*: _____ Color*: _____

VIN* or Fleet Number: _____ License Plate State/Number*: _____

Condition: ☐ Satisfactory

Vehicle Inspection Form Completed? ☐ Yes ☐ No

Vehicle preventive maintenance up to date? ☐ Yes ☐ No

When traveling to the site, contact your supervisor/project manager to confirm your safe arrival.
On return journey, contact your supervisor/project manager when you depart from site and upon arrival back to start point to confirm your safe travels.

**For rental or personal vehicle, if available.*

For Overnight Stays	Hotel Name: _____	Telephone: _____
	City: _____	State: _____

Route Planned

(Auto route, train information, and/or flight information):

☐ Route/Information Attached Separately ☐ Map Attached Separately

Unconventional Travel

☐ Helicopter

Verify the following:

- Name is on the aircraft manifest
- Pilot performs safety briefing prior to takeoff
- Hats are not worn on flight line
- Do not approach aircraft from the rear; approach from front quadrant or side
- Stay clear of tail rotor

☐ Private Aircraft

Verify the following:

- Name is on the aircraft manifest
- Pilot performs safety briefing prior to takeoff
- Hats are not worn on flight line
- Do not approach aircraft from the rear; approach from front quadrant or side

☐ Watercraft

Verify the following:

- Registration number is on the watercraft manifest
- Captain performs safety briefing prior to launch
- Personal flotation devices are available/worn
- Notify supervisor of vessel number

☐ Other:

Supervisor/PM Approval: _____ Date: _____

Employee site arrival: Date: _____ Time: _____

Employee site departure: Date: _____ Time: _____

Employee home arrival: Date: _____ Time: _____