QUESTA TAILINGS PIPELINE REMOVAL

STAGE 3 WORK PLAN

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY

QUESTA MINE

August 13, 2018

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, Mining Minerals Division (MMD) / New Mexico Environmental Department (NMED) Work Plan, Chevron Environmental Management Company, Questa Mine" (Removal Work Plan) (Trihydro 2017) to New Mexico Energy, Minerals and Natural Resources Department (EMNRD), MMD, NMED Groundwater Bureau and U.S. Environmental Protection Agency, Region 6 (USEPA) on May 19, 2017. Approval for this 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 pipeline segments.

The pipeline removal project has been divided into eight stages. Stage 1 activities entail the removal of high density polyethylene (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. Stages 2 through Stage 8 are outlined in Table 1-1 and are not anticipated to be completed in numerical order.

This document represents the individual plan for Stage 3 removal of the tailings pipeline. The work identified in this plan will result in the removal of approximately 12,700 feet (ft) of pipe. The pipe will be removed principally from CMI owned property, thereby limiting the number of additional permits and access agreements required.

TABLE 1-1. PIPELINE SEGMENT PRIORITIZATION AND STAGE IDENTIFICATION

Pipeline Segment Description	Approximate Length of Segment (feet)	Stage
Tailing Facility	10000	**1**
Columbine Wells Area	4000	**2**
Tailing Facility Entrance	2800	**2**
Corny's Corner hillside	1200	**2**
4th Road Crossing (State Road) plus Embargo Road	1100	**2**
Singleton's Cut	2900	**2**
Robinson's Property	850	**2**
East of Molycorp baseball field	1400	**2**
Upstream of the lower Dump Sump	1600	**2**
Pressure vessels to underground	500	**3**
East of Middle Pile	1000	**3**
Goat Hill Entrance Area	2350	**3**
Bear Cut	2500	**3**
USFS Office Area	3200	**4**
Forest Service Property west of Molycorp field	950	**4**
East of Sulphur gulch	650	**5**
West of Sulphur gulch	1200	**5**
Sugar Shack South	4100	**5**
1st Road Crossing (East Hwy 38 road)	90	**5**
Columbine Curve	1400	**5**
2nd Road Crossing	90	**5**
Admin Section	1800	**5**
Between Goat Hill and Bear Cut	2500	**5**
3rd Road Crossing	90	**5**
Rock Wall (Between Bear Cut and Forest Service) (aka "Rock and Hard Place")	3300	**5**
Lower Embargo Road Crossing		**5**
Rael Property	1500	**6**
1st River Crossing (by Columbine Park)	60	**6**
2nd River Crossing (aka Thunder Bridge)	100	**6**
3rd River Crossing	100	**6**
Elevated Trestle	1300	**7**
Lower Dump Sump	0	**8**
Downstream of 1st River Crossing- Columbine Park Entrance	600	

2.0 AGENCY PERMITS AND NOTIFICATIONS

The bulk of Stage 3 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 excavation permit from Taos County will be required if tailings removal will exceed 50 cubic yards. The amount of tailings to be removed will be calculated during the pipe removal process. If the estimated quantity exceeds 50-cubic yards CMI will apply to Taos County for an excavation permit.
- 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 3 piping was found to be non-detect for asbestos during August 2017 sampling events.
- A Storm Water Pollution Prevention Plan (SWPPP), 2012 Construction General Permit (CGP) will be obtained before starting work.
- Consultation with the New Mexico Historic Preservation Division (NMHPD) of the New Mexico Department of Cultural Affairs regarding the historic structures survey being completed at the site. A survey was completed and submitted to NMHPD.

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

3.0 STAGE 3 AREAS

A description of the areas included in the Stage 3 pipeline removal plan are illustrated below in Table 3-1. Figure 3-1 provides an overall view of the Stage 3 project areas. Detailed views of individual pipe sections are included as Figures 3-2, 3-3 and 3-4.

TABLE 3-1. AREAS INCLUDED IN STAGE 3 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
Pressure Vessel to Underground	500	End of summer, early fall - Weather and seasonal traffic	A	Y	3-2
East of Middle Pile	1000	End of summer, early fall - Weather and seasonal traffic	A	Y	3-2
Goat Hill Entrance Area	2350	End of summer, early fall - Weather and seasonal traffic	A	Y	3-3
Bear Cut	2500	End of summer, early fall - Weather and seasonal traffic	A	Y	3-4

4.0 REMOVAL ACTIVITIES

Prior to 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 450 milligram/kilogram (mg/kg) and 590 mg/kg along Stage 3 pipe alignments. Results from asbestos sampling and analysis showed non-detect along the Stage 3 alignment. Sample locations and detection results are shown in Figures 4-1 and 4-2. 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 A.

Utility locates, and any necessary surveying will be conducted prior to pipe removal activities. Although unlikely in Stage 3 activities, road 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 3 pipeline areas are located on CMI property.

The Stage 3 pipeline is on the surface. This 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 a laydown area on the tailings 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.

Approximate quantities of material to be removed are detailed in Table 4-1.

TABLE 4-1. QUANTITIES OF DEMOLITION MATERIALS

Pipeline Segment Description	Approximate Quantity of Pipe to be Removed (feet)	Approximate Quantity of Concrete (tons)	Approximate Quantity of Steel (tons)
Pressure Vessels to Underground	1000	20	0.2
East of Middle Pile	2000	40	0.3
Goat Hill Entrance Area	4700	94	0.7
Bear Cut	5000	100	0.8

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 (Trihydro 2017). The 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, such as a trail. Clean fill, if necessary, will be imported from previously approved borrow sources. A map indicating the locations of borrow material is included as Appendix B.

Once the grading has been completed disturbed areas will be reseeded using the mix detailed in Table 5-1. Alternate seed mixes may be used 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 based on the area of application.

TABLE 5-1. SEED MIXTURE

Grasses		**lbs./acre**
Western Wheatgrass, var. Arriba	Pascopyrum smithii	5.0
Slender Wheatgrass, var. Sna Luis	Elymus trachycaulus	3.0
Bluebuch Wheatgrass, var. Goldar	Pseudoroegneria spicata	4.0
Sand Dropseed	Sporobolus cryptandrus	1.0
Prairie Junegrass	Koeleria macrantha	2.0
Forbs		
Western Yarrow	Achillea millefolium	2.0
Rocky Mountain Penstemon, var. Bandera	Penstemon strictus	4.0
Prairie Coneflower	Ratibida Columnifera	4.0
Showy Evening Primrose	Oenothera speciose	2.0
Shrubs		
Big Rabbitbrush	Ericameria nauseosa	2.0
Apache Plume	Fallugia paradoxa	1.0

6.0 STAKEHOLDER ENGAGEMENT

The key stakeholders for this stage of pipeline removal include:

- Taos County
- NMHPD
- NMDOT
- Village of Questa, NM

Outreach to the key stakeholders has begun and will continue throughout the pipeline removal project. Stage 3 activities will be discussed with the public during the scheduled monthly meetings with the Village of Questa.

7.0 SCHEDULE

The schedule for Stage 3 of the Questa pipeline removal project is detailed below in Table 7-1

TABLE 7-1. STAGE 3 PIPELINE REMOVAL SCHEDULE

Pipeline Segment Description	Target Date of Commencement for Pipe Removal
Pressure Vessels to Underground	2018 Q3/Q4
East of Middle Pile	2018 Q3/Q4
Goat Hill Entrance Area	2018 Q3/Q4
Bear Cut	2018 Q3/Q4

8.0 HEALTH AND SAFETY

CMI and its contractors 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 C.

- 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 Analysis (JSA) forms. JSA forms 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 C.
- 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 JSA forms, 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 (JMPs). JMPs are used to identify hazards associated with transportation. These plans identify hazard and provide mitigation steps for enhancing vehicle operational safety.

The utilization 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

Trihydro Corporation (Trihydro) 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 project contact for Trihydro. 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.

The primary contractor for Stage 3 has not been identified. This section will be updated upon contractor project award.

10.0 REFERENCES

Trihydro Corporation (Trihydro). 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
- BEAR CUT
- GOAT HILL ENTRANCE AREA
- EAST OF MIDDLE PILE
- PRESSURE VESSELS TO UNDERGROUND AND EAST OF MIDDLE PILE

- PIPELINE
- PRIMARY STATE HIGHWAY
- SECONDARY STATE HIGHWAY
- LOCAL, NEIGHBORHOOD, OR RURAL ROAD

N

0 2,400'

Trihydro CORPORATION
1252 Commerce Drive
Laramie, WY 82070
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(P) 307/745.7474 (F) 307/745.7729

FIGURE 3-1

STAGE 3 PIPELINE REMOVAL LOCATIONS

CEMC QUESTA MINE
QUESTA, NEW MEXICO

Drawn By: DH	Checked By: RN	Scale: 1 " = 2,400 '	Date: 1/8/18	File: Fig3-1_Stage3PipelineWP.mxd

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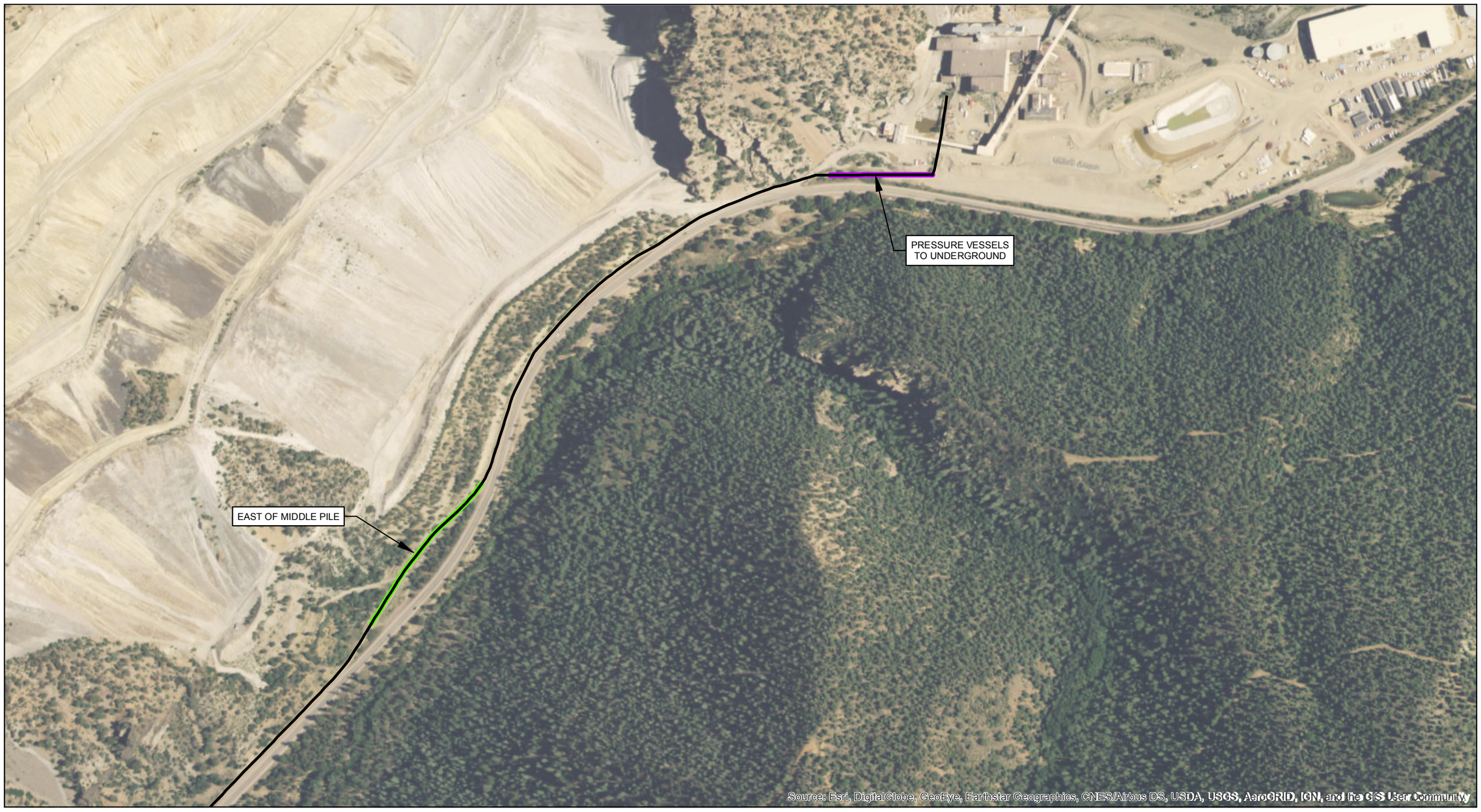

EXPLANATION

PIPELINE

PIPELINE REMOVAL LOCATIONS

East of Middle Pile

Pressure Vessels to Underground and East of Middle Pile

N

0 400'

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FIGURE 3-2

**STAGE 3 PIPELINE REMOVAL LOCATION
PRESSURE VESSELS TO UNDERGROUND
AND EAST OF MIDDLE PILE**

**CEMC QUESTA
QUESTA, NEW MEXICO**

Drawn By: DH	Checked By: BH	Scale: 1 " = 400 '	Date: 1/8/18	File: Fig3-2_Stage3PipelineWP.mxd

M:\CHEVRON\CEMC_MINING\QUESTAMINE\PIPELINE\GIS\MAPPING\STAGE3\WORKFOLA\MFIGS-2_STAGE3PIPELINEWP.MXD

EXPLANATION

PIPELINE

PIPELINE REMOVAL LOCATIONS

GOAT HILL ENTRANCE AREA

N

0 400'

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FIGURE 3-3

STAGE 3 PIPELINE REMOVAL LOCATION
GOAT HILL ENTRANCE AREA

CEMC QUESTA
QUESTA, NEW MEXICO

Drawn By: DH	Checked By: BH	Scale: 1 " = 400 '	Date: 12/11/17	File: Fig3-3_Stage3PipelineWP.mxd

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EXPLANATION

PIPELINE

PIPELINE REMOVAL LOCATIONS

BEAR CUT

N

0 400'

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FIGURE 3-4

STAGE 3 PIPELINE REMOVAL LOCATION BEAR CUT

CEMC QUESTA
QUESTA, NEW MEXICO

Drawn By: DH	Checked By: BH	Scale: 1 " = 400 '	Date: 1/8/18	File: Fig3-4_Stage3PipelineWP.mxd

M:\CHEVRON\CEMC_MINING\QUESTAMINE\PIPELINE\GIS\MAPPINGSTAGE3\WORKPLAN\FIG3-4_STAGE3PIPELINEWP.MXD

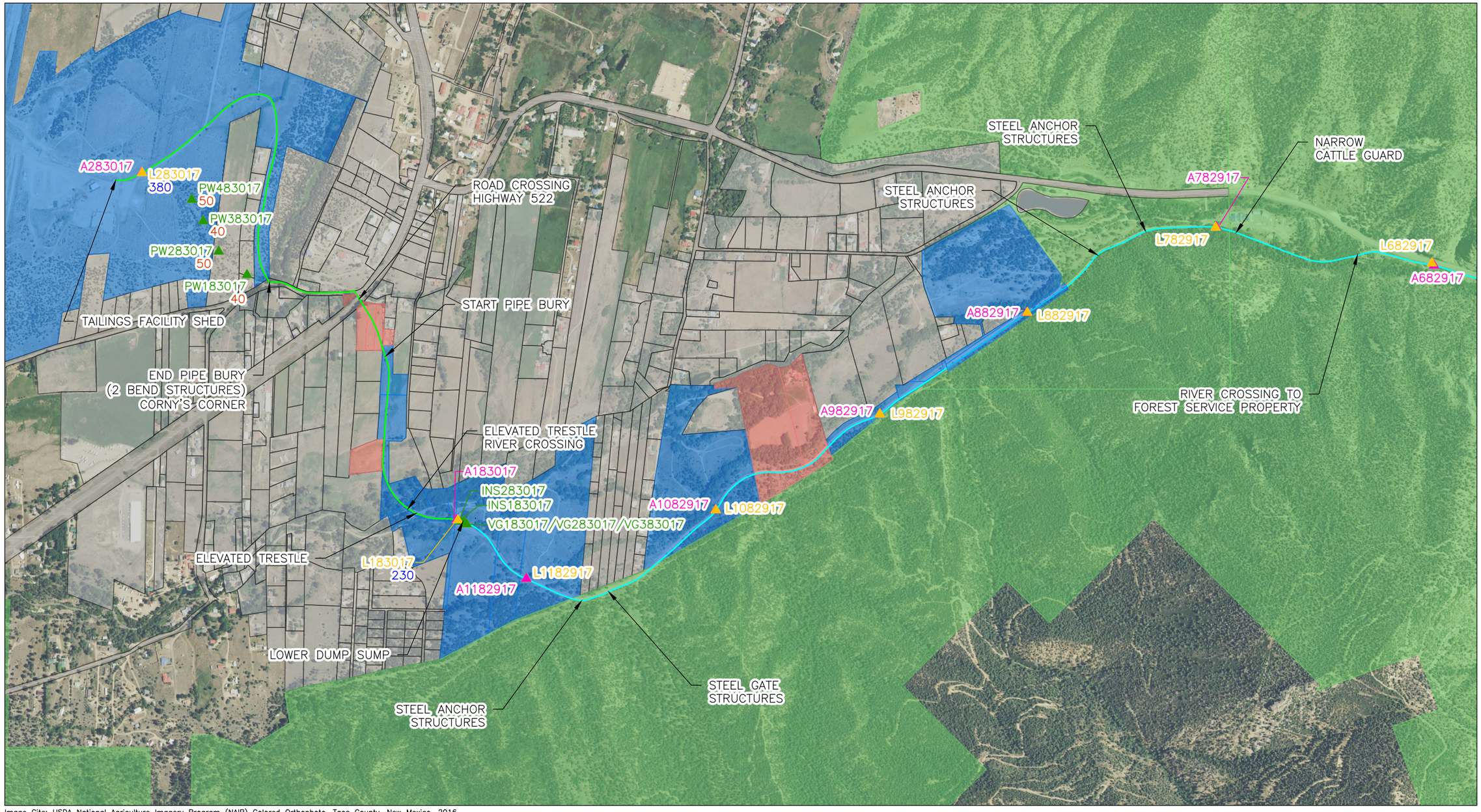

Image Cite: USDA National Agriculture Imagery Program (NAIP) Colored Orthophoto, Taos County, New Mexico, 2016

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

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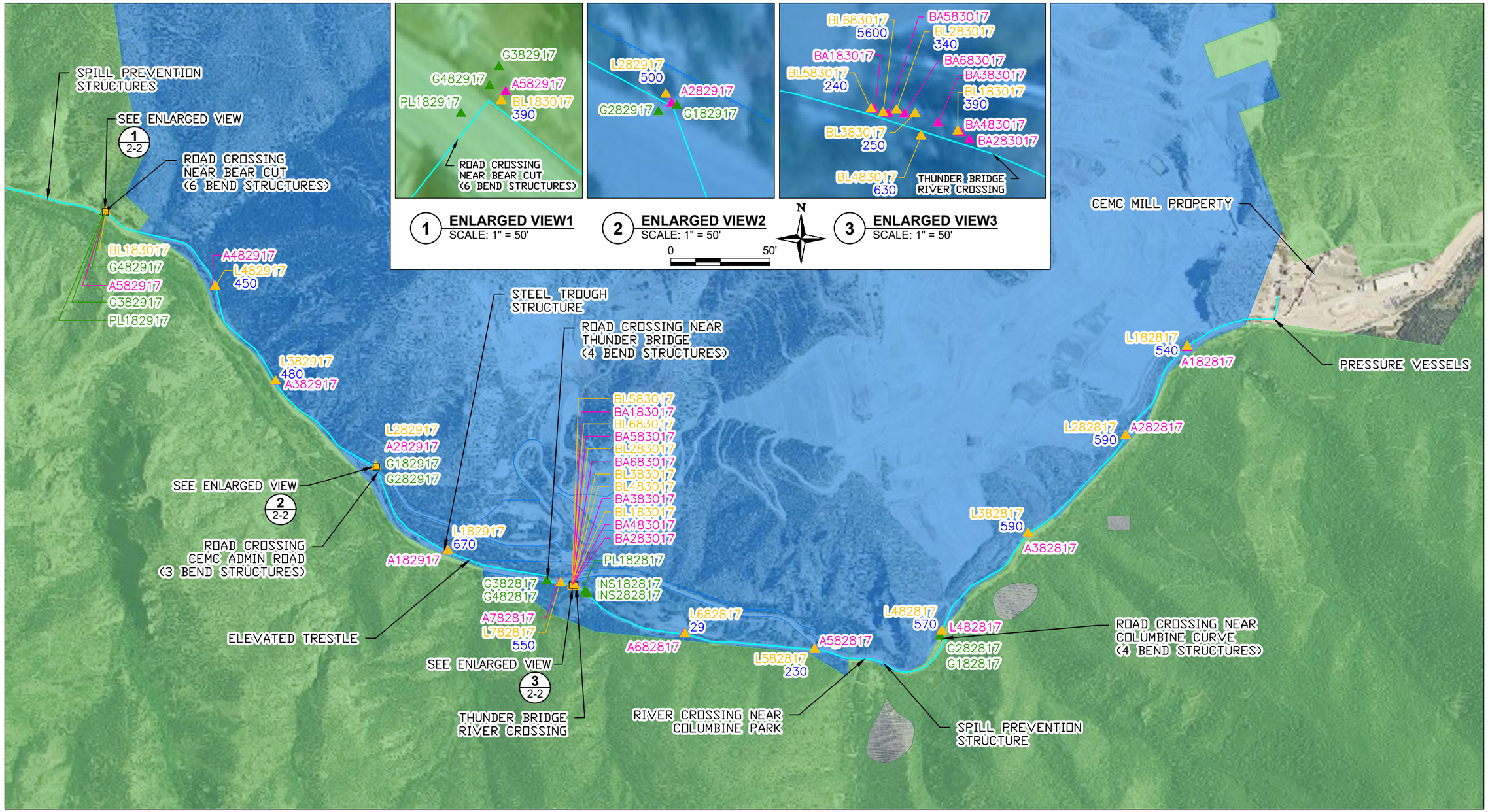

Image Cite: USDA National Agriculture Imagery Program (NAIP) Colored Orthophoto, Taos County, New Mexico, 2016

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

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APPENDIX A

ASBESTOS AND LEAD SAMPLING LAB DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

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
Michelle Johnston, Project Manager II
(303)736-0110
michelle.johnston@testamericainc.com

Designee for

Donna Rydberg, Senior Project Manager
(303)736-0192
donna.rydberg@testamericainc.com

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.

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
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Report for:

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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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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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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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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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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

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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	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: TestAmerica 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:			

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Chain of Custody Record

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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 get dyed)); Asbestos - PLM by EPA 600/R-93/116 (Gelle	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 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 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#:			

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:

Analysis Requested

001790994

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil/solid, Biota, 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 *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: ☐ 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			Preservation Codes:
City: Arvada	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - AmchNor, 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

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 (price per layer)) Asbestos - PLM by EPA 600/R-93/116 (price per layer)	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		

001790994

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	Analysis Requested		Preservation Codes:
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone:	PO #:			
Email:	WO #:			
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197			
Site:	SSOW#:			Other:

Analysis columns: 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 (pric; Total Number of containers

001790994

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)

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	Perform MS/MSD	SUB (Asbestos - PLM)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PW383017 (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: [signature]	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	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:
City: Laramie	TAT Requested (days): 10 DAY
State, Zip: WY, 82070	
Phone:	PO #: Purchase Order Requested
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:						
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: Δ Yes Δ 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	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)	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		
							1		
							1		
							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
1	T. KUPILIK	9/6/17 @ 1500	THC		9/7/17 0915	DAI
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: 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	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:						
A183017	8/30/17	0940	G	S			X	1	
A283017		1110							
BA183017		1115							
BA283017		1120							
BA383017		1125							
BA483017		1130							
BA583017		1140							
BA683017		1150							

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
1	T. KUPILIK	9/6/17 @ 1500	THC		9/7/17 0915	TP
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: ☐ 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 B

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

Mtnview Rd

Abra Rd

Old Hwy 3

522

N

1000 ft

Google Earth

APPENDIX C

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.

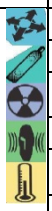
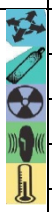
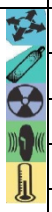
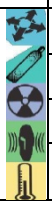
JOB SAFETY ANALYSIS

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.		

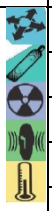
Personal Protective Equipment (PPE) Needed:

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	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.	
		x					
Perform vehicle inspection (all drivers)				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	
		x					
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: _____