

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

ENGINEERING SOLUTIONS. ADVANCING BUSINESS.

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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.



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	

TABLE 1-1. PIPELINE SEGMENT PRIORITIZATION AND STAGE IDENTIFICATION



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.

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	А	Y	3-4

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



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.

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

TABLE 4-1. QUANTITIES OF DEMOLITION MATERIALS



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.

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

TABLE 5-1. SEED MIXTURE



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

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

TABLE 7-1. STAGE 3 PIPELINE REMOVAL SCHEDULE



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.

7 Trihydro

- 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.



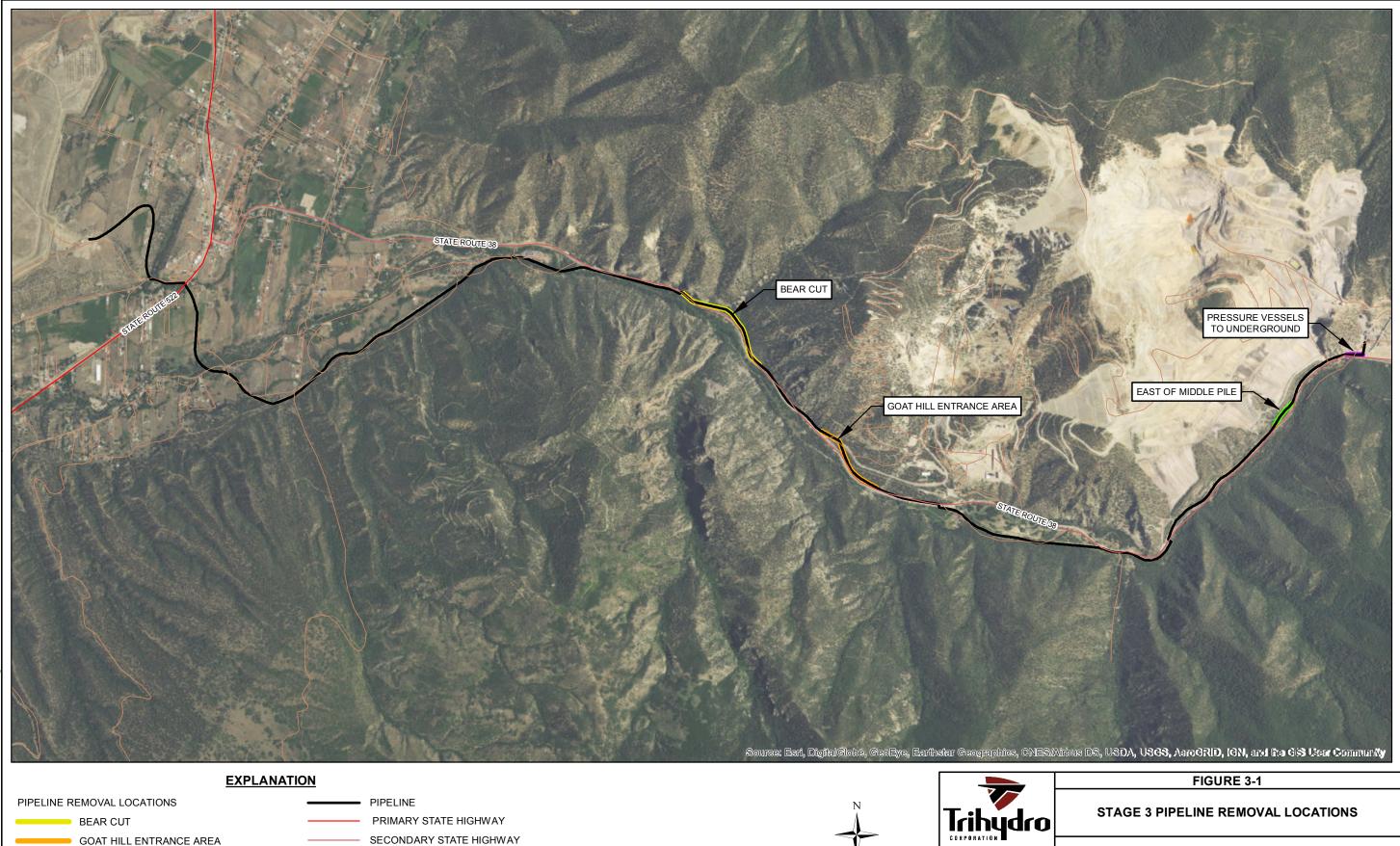
10.0 REFERENCES

- 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.



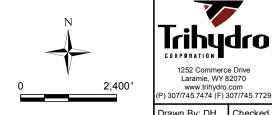
FIGURES





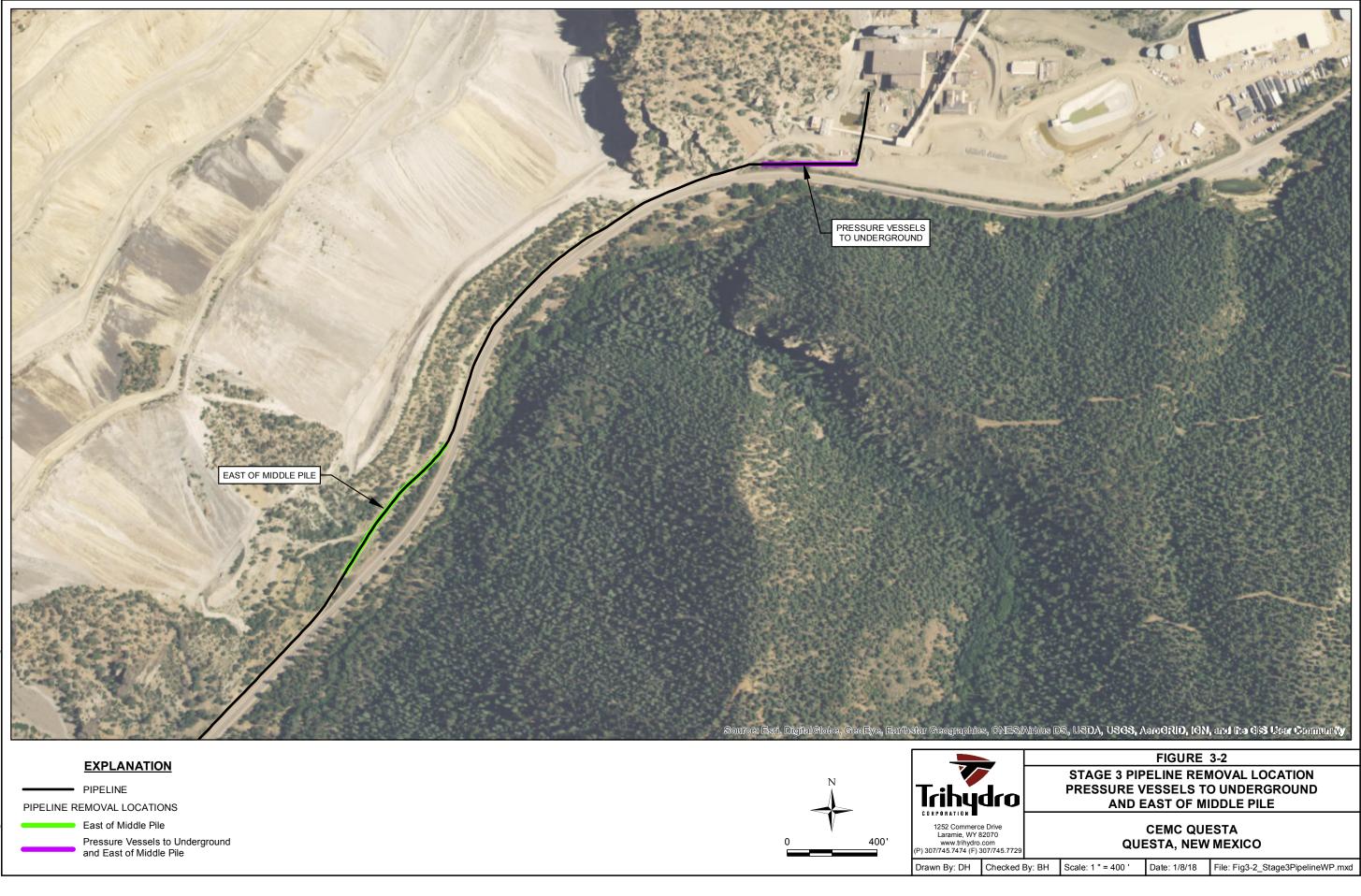
GOAT HILL ENTRANCE AREA

EAST OF MIDDLE PILE PRESSURE VESSELS TO UNDERGROUND AND EAST OF MIDDLE PILE SECONDARY STATE HIGHWAY LOCAL, NEIGHBORHOOD, OR RURAL ROAD



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



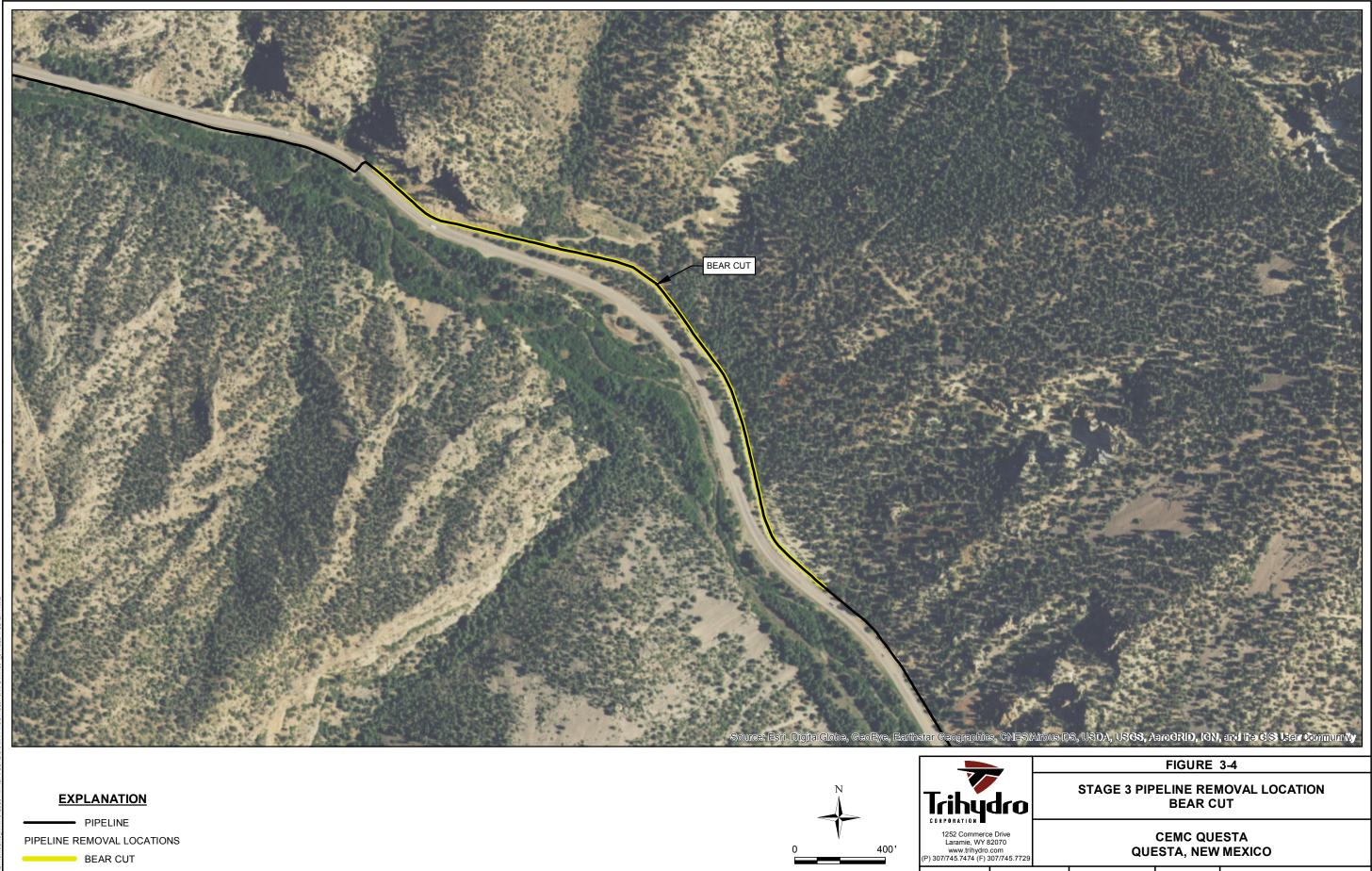




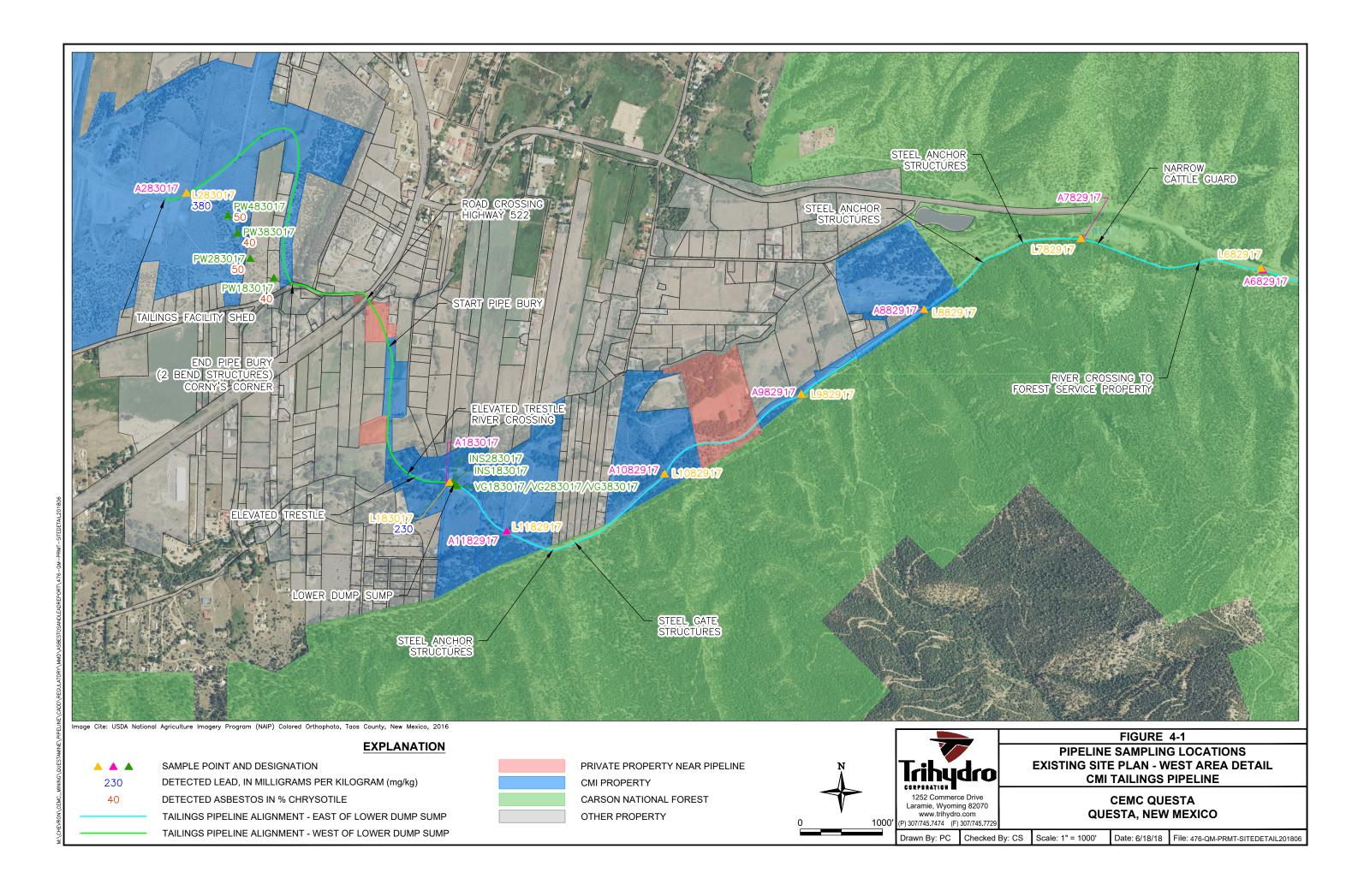
PIPELINE
PIPELINE REMOVAL LOCATIONS
GOAT HILL ENTRANCE AREA

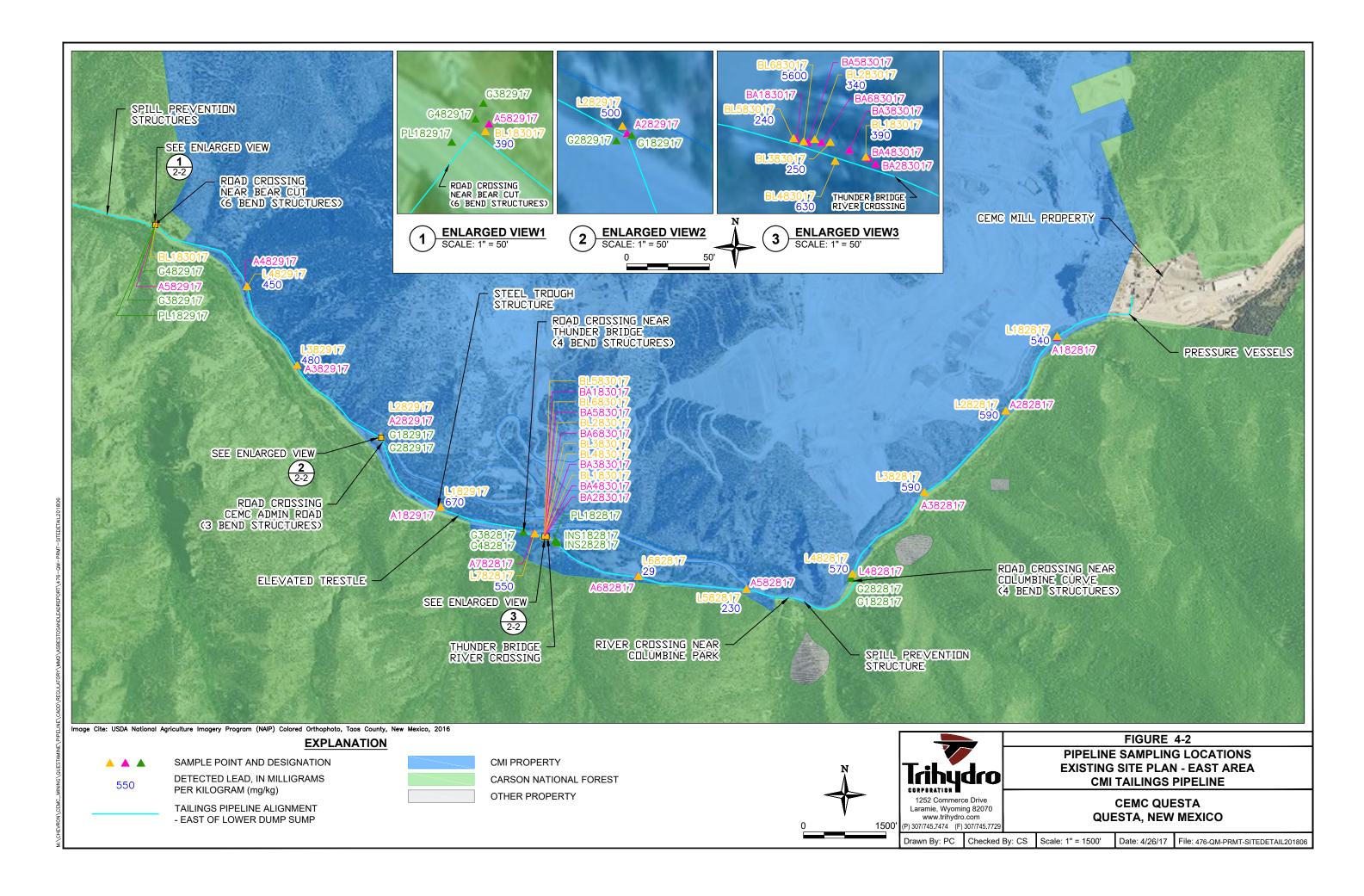


CEMC QUESTA QUESTA, NEW MEXICO Drawn By: DH Checked By: BH Scale: 1 " = 400 ' Date: 12/11/17 File: Fig3-3_Stage3PipelineWP.mxd



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





APPENDIX A

ASBESTOS AND LEAD SAMPLING LAB DATA





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

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

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

Glossarv

Glossary		3
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	5
CFL	Contains Free Liquid	3
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)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
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.

<u>RECEIPT</u>

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.

Client: Trihydro Corporation Project/Site: Questa Pipeline - Lead	and Asbe	estos				TestAmerica Jo	ob ID: 280-100940-1	2
Client Sample ID: A182817						Lab Sample I	D: 280-100940-1	
No Detections.								
Client Sample ID: A282817						Lab Sample I	D: 280-100940-2	5
No Detections.								6
Client Sample ID: A382817						Lab Sample I	D: 280-100940-3	
No Detections.								
Client Sample ID: A482817						Lab Sample I	D: 280-100940-4	8
No Detections.								9
Client Sample ID: A582817						Lab Sample I	D: 280-100940-5	
No Detections.								
Client Sample ID: A682817						Lab Sample I	D: 280-100940-6	
No Detections.								13
Client Sample ID: A782817						Lab Sample I	D: 280-100940-7	
No Detections.								
Client Sample ID: L182817						Lab Sample I	D: 280-100940-8	
Analyte		Qualifier	RL		Unit	Dil Fac D Metho		
Lead	540		0.77	0.27	mg/Kg	16010C	Total/NA	
Client Sample ID: L282817						Lab Sample I	D: 280-100940-9	
Analyte		Qualifier			Unit	Dil Fac D Metho		
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		Unit	Dil Fac D Metho		
Lead	590		0.75	0.26	mg/Kg	<u> </u>	Total/NA	
Client Sample ID: L482817						Lab Sample ID	: 280-100940-11	
Analyte		Qualifier	RL		Unit	Dil Fac D Metho		
Lead	570		0.82	0.28	mg/Kg	16010C	Total/NA	
Client Sample ID: L582817						Lab Sample ID	: 280-100940-12	
Analyte		Qualifier	RL		Unit	Dil Fac D Metho		
Lead	230		4.1	1.4	mg/Kg	<u> </u>	Total/NA	
Client Sample ID: L682817						Lab Sample ID	: 280-100940-13	

This Detection Summary does not include radiochemical test results.

		Detect	tion Sum	nmary	1				1
Client: Trihydro Corporation Project/Site: Questa Pipeline - Lead and Asbestos							nerica Job I	D: 280-100940-1	2
Client Sample ID: L682817 (Continued) Lab Sample ID: 280-100940-							80-100940-13	3	
Analyte Lead	Result	Qualifier	RL 1.2		Unit mg/Kg		D Method 6010C	Prep Type Total/NA	4
Client Sample ID: L78281	7					Lab San	nple ID: 2	80-100940-14	5
Analyte Lead	Result	Qualifier	RL 0.83		Unit mg/Kg	Dil Fac	D Method 6010C	Prep Type Total/NA	6 7
Client Sample ID: INS182	817					Lab San	nple ID: 2	80-100940-15	8
No Detections.									
Client Sample ID: INS282	817					Lab San	nple ID: 2	80-100940-16	9
No Detections.									10
Client Sample ID: PL1828	817					Lab San	nple ID: 2	80-100940-17	11
No Detections.									12
Client Sample ID: G18281	17					Lab San	nple ID: 2	80-100940-18	13
No Detections.									14
Client Sample ID: G28281	17					Lab San	nple ID: 2	80-100940-19	
No Detections.									
Client Sample ID: G38281	17					Lab San	nple ID: 2	80-100940-20	
No Detections.									
Client Sample ID: G48281	17					Lab San	nple ID: 2	80-100940-21	
No Detections.									
Client Sample ID: A18291	7					Lab San	nple ID: 2	80-100940-22	
No Detections.									
Client Sample ID: A28291	7					Lab San	nple ID: 2	80-100940-23	
No Detections.									
Client Sample ID: A38291	7					Lab San	nple ID: 2	80-100940-24	
No Detections.							-		
Client Sample ID: A48291	7					Lab San	nple ID: 2	80-100940-25	
No Detections							•		

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Trihydro Corporation Project/Site: Questa Pipeline - Lead	and Asbe	estos		2	TestAmerica Job ID	: 280-100940-1
Client Sample ID: A582917					Lab Sample ID: 28	0-100940-26
No Detections.						
Client Sample ID: A682917					Lab Sample ID: 28	0-100940-27
No Detections.						
Client Sample ID: A782917					Lab Sample ID: 28	0-100940-28
No Detections.						
Client Sample ID: A882917					Lab Sample ID: 28	0-100940-29
No Detections.						
Client Sample ID: A982917					Lab Sample ID: 28	0-100940-30
No Detections.						
Client Sample ID: A1082917					Lab Sample ID: 28	0-100940-31
No Detections.						
Client Sample ID: A1182917					Lab Sample ID: 28	0-100940-32
No Detections.						
Client Sample ID: L182917					Lab Sample ID: 28	0-100940-33
Analyte	Result	Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	670		0.73	0.25 mg/Kg	<u> </u>	Total/NA
Client Sample ID: L282917					Lab Sample ID: 28	0-100940-34
Analyte	Result	Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	500		0.87	0.30 mg/Kg	<u> </u>	Total/NA
Client Sample ID: L382917					Lab Sample ID: 28	0-100940-35

ResultQualifier480	RL 1.5	MDL Unit	Dil Fac D Method 2 2 6010C	Prep Type Total/NA

Client Sample ID: L482917						Lab Sa	m	ole ID: 28	0-100940-36
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 Sa	mp	ole ID: 28	0-100940-37
Client Sample ID: L582917	Result	Qualifier	RL	MDL	Unit			Die ID: 28 Method	0-100940-37 Prep Type

Client Sample ID: L682917

Lab Sample ID: 280-100940-38

This Detection Summary does not include radiochemical test results.

Client: Trihydro Corporation Project/Site: Questa Pipeline - Lead and Asbestos TestAmerica Job ID: 280-100940-1

Client Sample ID: L682917 (C	ontinu	ied)				Lab Sa	mple ID: 280	0-100940-3
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 Sa	mple ID: 280	0-100940-3
Analyte	Result	Qualifier	RL		Unit		D Method	Prep Type
Lead	810		4.3	1.5	mg/Kg	5	6010C	Total/NA
Client Sample ID: L882917						Lab Sa	mple ID: 280)-100940-4
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 Sa	mple ID: 280)-100940-4
 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 Sa	mple ID: 280	0-100940-4
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 Sa	mple ID: 280)-100940-4
Analyte	Result	Qualifier	RL		Unit	Dil Fac	D Method	Prep Type
Lead	290		1.1	0.38	mg/Kg	1	6010C	Total/NA
Client Sample ID: G182917						Lab Sa	mple ID: 280)-100940-4
No Detections.							-	
Client Sample ID: G282917						Lab Sa	mple ID: 280)-100940-4
No Detections.								
Client Sample ID: G382917						Lab Sa	mple ID: 280	0-100940-4
No Detections.								
Client Sample ID: G482917						Lab Sa	mple ID: 280	0-100940-4
No Detections.								
Client Sample ID: PL182917						Lab Sa	mple ID: 280	0-100940-4
No Detections.								
Client Sample ID: A183017						Lab Sa	mple ID: 280)-100940-4
No Detections								

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Project/Site: Questa Pipeline - Lead	and Asbe	estos						
Client Sample ID: A283017						Lab Sar	mple ID: 28	80-100940-50
No Detections.								
Client Sample ID: BA183017						Lab Sar	mple ID: 28	80-100940-51
No Detections.								
Client Sample ID: BA283017						Lab Sar	mple ID: 28	80-100940-52
No Detections.								
Client Sample ID: BA383017						Lab Sar	mple ID: 28	80-100940-53
No Detections.								
Client Sample ID: BA483017						Lab Sar	mple ID: 28	80-100940-54
No Detections.								
Client Sample ID: BA583017						Lab Sar	mple ID: 28	80-100940-55
No Detections.								
Client Sample ID: BA683017						Lab Sar	mple ID: 28	80-100940-56
No Detections.							•	
Client Sample ID: L183017						Lab Sar	mple ID: 28	80-100940-57
Analyte		Qualifier	RL		Unit		D Method	Prep Type
Lead	330		0.99	0.34	mg/Kg	1	6010C	Total/NA
Client Sample ID: L283017						Lab Sar	mple ID: 28	80-100940-58
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 Sar	mple ID: 28	80-100940-59
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	390		9.3		mg/Kg	10	6010C	Total/NA
Client Sample ID: BL283017						Lab Sar	mple ID: 28	80-100940-60
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	340		8.3		mg/Kg	<u>10</u>	6010C	Total/NA
Client Sample ID: BL383017						Lab Sar	mple ID: 28	80-100940-61
Analyte		Qualifier	RL	MDL			D Method	Ргер Туре
Lead	250		13	1.5	ma/ka			

Lab Sample ID: 280-100940-62

6010C

5

This Detection Summary does not include radiochemical test results.

Client Sample ID: BL483017

250

Lead

Client: Trihydro Corporation

Total/NA

4.3

1.5 mg/Kg

		Detect	tion Sum	ımary	/			-	
Client: Trihydro Corporation Project/Site: Questa Pipeline - Lead	and Asbe	estos		_		TestAmerica	a Job ID: 28	30-100940-1	2
Client Sample ID: BL483017	(Contir	iued)				Lab Sample	ID: 280-1	00940-62	3
Analyte Lead	Result 630	Qualifier	RL 15		Unit mg/Kg	Dil Fac D Met 20 - 601		Prep Type Total/NA	4
Client Sample ID: BL583017						Lab Sample	ID: 280-1	00940-63	5
Analyte Lead	Result 240	Qualifier	RL 5.5		Unit mg/Kg	Dil Fac D Met 5 601		Prep Type Total/NA	6 7
Client Sample ID: BL683017						Lab Sample	ID: 280-1	00940-64	
Analyte Lead	Result 5600	Qualifier	RL 5.6		Unit mg/Kg	Dil Fac D Met 5 601		Prep Type Total/NA	9
Client Sample ID: INS18301	7					Lab Sample	ID: 280-1	00940-65	0
No Detections.								1	1
Client Sample ID: INS28301	7					Lab Sample	ID: 280-1	00940-66 1	2
No Detections.								1	3
Client Sample ID: VG183017	,					Lab Sample	ID: 280-1	00940-67	Λ
No Detections.									4
Client Sample ID: VG283017	,					Lab Sample	ID: 280-1	00940-68	
No Detections.									
Client Sample ID: VG383017	,					Lab Sample	ID: 280-1	00940-69	
No Detections.									
Client Sample ID: PW183017	7					Lab Sample	ID: 280-1	00940-70	
No Detections.									
Client Sample ID: PW283017	7					Lab Sample	ID: 280-1	00940-71	
No Detections.									
Client Sample ID: PW383017	7					Lab Sample	ID: 280-1	00940-72	
No Detections.									
Client Sample ID: PW483017	7					Lab Sample	ID: 280-1	00940-73	

No Detections.

This Detection Summary does not include radiochemical test results.

lethod	Method Description	Protocol	Laboratory
010C	Metals (ICP)	SW846	TAL DEN
sbestos - PLM y EPA 00/R-93/116 oric	General Sub Contract Method	NONE	
Protocol Refe NONE = NO			

Laboratory References:

Method

Asbestos - PLM

6010C

by EPA 600/R-93/116 (pric

> = EMLab P&K - Denver, 4955 Yarrow Street, Arvada, CO 80002 TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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17 09:15	

_ab Sample ID	Client Sample ID	Matrix	Collected Receive
280-100940-1	A182817	Solid	08/28/17 13:15 09/07/17 0
80-100940-2	A282817	Solid	08/28/17 13:54 09/07/17 0
80-100940-3	A382817	Solid	08/28/17 14:20 09/07/17 0
30-100940-4	A482817	Solid	08/28/17 14:40 09/07/17 0
80-100940-5	A582817	Solid	08/28/17 15:10 09/07/17 0
80-100940-6	A682817	Solid	08/28/17 15:35 09/07/17 0
80-100940-7	A782817	Solid	08/28/17 16:15 09/07/17 0
80-100940-8	L182817	Solid	08/28/17 13:15 09/07/17 0
80-100940-9	L282817	Solid	08/28/17 13:54 09/07/17 0
80-100940-10	L382817	Solid	08/28/17 14:20 09/07/17 0
80-100940-11	L482817	Solid	08/28/17 14:40 09/07/17 0
30-100940-12	L582817	Solid	08/28/17 14:50 09/07/17 0
80-100940-13	L682817	Solid	08/28/17 15:35 09/07/17 0
30-100940-14	L782817	Solid	08/28/17 16:15 09/07/17 0
80-100940-15	INS182817	Solid	08/28/17 15:55 09/07/17 0
30-100940-16	INS282817	Solid	08/28/17 15:55 09/07/17 0
30-100940-17	PL182817	Solid	08/28/17 15:55 09/07/17 0
30-100940-18	G182817	Solid	08/28/17 14:50 09/07/17 0
30-100940-19	G282817	Solid	08/28/17 14:50 09/07/17 0
80-100940-20	G382817	Solid	08/28/17 16:40 09/07/17 0
30-100940-21	G482817	Solid	08/28/17 16:40 09/07/17 0
30-100940-22	A182917	Solid	08/29/17 08:35 09/07/17 0
0-100940-23	A282917	Solid	08/29/17 09:10 09/07/17 0
80-100940-24	A382917	Solid	08/29/17 09:45 09/07/17 0
80-100940-25	A482917	Solid	08/29/17 10:05 09/07/17 0
30-100940-26	A582917	Solid	08/29/17 10:25 09/07/17 0
80-100940-27	A682917	Solid	08/29/17 11:05 09/07/17 0
30-100940-28	A782917	Solid	08/29/17 11:40 09/07/17 0
30-100940-29	A882917	Solid	08/29/17 11:40 09/07/17 0
80-100940-30	A982917	Solid	08/29/17 12:30 09/07/17 0
30-100940-31	A1082917		08/29/17 15:10 09/07/17 0
30-100940-31 30-100940-32	A1182917 A1182917	Solid Solid	08/29/17 15:10 09/07/17 0
80-100940-33	L182917	Solid	08/29/17 08:35 09/07/17 0
30-100940-34	L282917	Solid	08/29/17 09:10 09/07/17 0
30-100940-35	L382917	Solid	08/29/17 09:45 09/07/17 0
30-100940-36	L482917	Solid	08/29/17 10:05 09/07/17 0
30-100940-37	L582917	Solid	08/29/17 10:25 09/07/17 0
30-100940-38	L682917	Solid	08/29/17 11:05 09/07/17 0
30-100940-39	L782917	Solid	08/29/17 11:40 09/07/17 0
80-100940-40	L882917	Solid	08/29/17 11:55 09/07/17 0
30-100940-41	L982917	Solid	08/29/17 12:30 09/07/17 0
30-100940-42	L1082917	Solid	08/29/17 15:10 09/07/17 0
30-100940-43	L1182917	Solid	08/29/17 16:40 09/07/17 0
80-100940-44	G182917	Solid	08/29/17 09:20 09/07/17 0
0-100940-45	G282917	Solid	08/29/17 09:25 09/07/17 0
80-100940-46	G382917	Solid	08/29/17 10:20 09/07/17 0
30-100940-47	G482917	Solid	08/29/17 10:25 09/07/17 0
30-100940-48	PL182917	Solid	08/29/17 10:30 09/07/17 0
30-100940-49	A183017	Solid	08/30/17 09:40 09/07/17 0
30-100940-50	A283017	Solid	08/30/17 11:10 09/07/17 0
30-100940-51	BA183017	Solid	08/30/17 11:15 09/07/17 0
30-100940-52	BA283017	Solid	08/30/17 11:20 09/07/17 0
80-100940-53	BA383017	Solid	08/30/17 11:25 09/07/17 0

TestAmerica Denver

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

TestAmerica Job ID: 280-100940-1

Client: Trihydro Co Project/Site: Ques	prporation ta 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
80-100940-70	PW183017	Solid	08/30/17 15:10 09/07/17 09:15
80-100940-71	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
80-100940-73	PW483017	Solid	08/30/17 15:40 09/07/17 09:15

Client Sample Results

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

TestAmerica Job ID: 280-100940-1

Method:	6010C -	Metals	(ICP)

Client Sample ID: L182817 Date Collected: 08/28/17 13:15						Lab Sample ID: 280-100940-8 Matrix: Solid
Date Received: 09/07/17 09:15	Booult	Qualifier	RL	MDL	Unit	D Prepared Analyzed Dil Fac
Analyte Lead	540		0.77		mg/Kg	D Prepared Analyzed Dil Fac 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		Qualifier	RL	MDL		Di 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		D Prepared Analyzed Dil Fac
Lead	570		0.82	0.28	mg/Kg	<u> </u>
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	<u> </u>
Client Sample ID: L682817 Date Collected: 08/28/17 15:35 Date Received: 09/07/17 09:15 Analyte	Result	Qualifier	RL	MDL	Unit	Lab Sample ID: 280-100940-13 Matrix: Solid D Prepared Analyzed Dil Fac
Lead	29		1.2		mg/Kg	$\frac{1}{09/11/17} \frac{1}{13:30} \frac{1}{09/13/17} \frac{1}{07:24} \frac{1}{2}$
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		Qualifier	RL	MDL		D Prepared Analyzed Dil Fac
Lead	550		0.83	0.29	mg/Kg	<u> </u>
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		Qualifier	RL	MDL		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		Qualifier	RL		Unit	D Prepared Analyzed Dil Fac
Lead	500		0.87	0.30	mg/Kg	<u> </u>

Client Sample Results

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

TestAmerica Job ID: 280-100940-1

Method: 6010C - Metals (ICP)

Client Sample ID: L382917 Date Collected: 08/29/17 09:45						Lab Sample ID: 280-100940-35 Matrix: Solid
Date Received: 09/07/17 09:15						
Analyte		Qualifier		MDL		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		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		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		Qualifier	RL	MDL		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	<u> </u>
Client Sample ID: L882917 Date Collected: 08/29/17 11:55 Date Received: 09/07/17 09:15 Analyte	Result	Qualifier	RL	MDL	Unit	Lab Sample ID: 280-100940-40 Matrix: Solid D Prepared Analyzed Dil Fac
Lead	32		0.86	0.30	mg/Kg	<u> </u>
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		Qualifier		MDL		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		Qualifier	RL		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		Qualifier	RL	MDL		D Prepared Analyzed Dil Fac
Lead	290		1.1	0.38	mg/Kg	09/11/17 13:30 09/12/17 03:50 1

Client Sample Results

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

TestAmerica Job ID: 280-100940-1

Method: 6010C - Metals (ICP)

Client Sample ID: L183017 Date Collected: 08/30/17 09:40							Lab Samp	le ID: 280-100 Matrix	940-57 c: Solid
Date Received: 09/07/17 09:15									
Analyte	Result	Qualifier	RL		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							Lab Samp	le ID: 280-100 Matrix	940-58 c: Solid
Date Received: 09/07/17 09:15								Watily	
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 Samp	le ID: 280-100 Matrix	940-59 c: 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 Samp	le ID: 280-100 Matrix	940-60 c: 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 Samp	le ID: 280-100 Matrix	940-61 c: Solid
Analyte	Result	Qualifier	RL		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 Samp	le ID: 280-100 Matrix	940-62 c: 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 Samp	le ID: 280-100 Matrix	940-63 c: Solid
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	240		5.5		mg/Kg			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 Samp	le ID: 280-100 Matrix	940-64 c: Solid
Analyte	Result	Qualifier	RL		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

QC Association Summary

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

TestAmerica Job ID: 280-100940-1

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	Ргер Туре	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

TestAmerica Denver

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

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

Client Sample ID

L1182917

L183017

Method Blank

Method Blank

Lab Control Sample

Lab Control Sample

Lab Control Sample Dup

Lab Control Sample Dup

Metals (Continued)

Lab Sample ID

280-100940-43

280-100940-57

MB 280-387083/1-A

MB 280-387084/1-A

LCS 280-387083/2-A

LCS 280-387084/2-A

LCSD 280-387083/3-A

LCSD 280-387084/3-A

Lab Sample ID

280-100940-12

280-100940-13

280-100940-35

280-100940-58

280-100940-59

280-100940-60

280-100940-61

280-100940-62

280-100940-63

280-100940-64

Analysis Batch: 387317 (Continued)

Method

6010C

6010C

6010C

6010C

6010C

6010C

6010C

6010C

5

Prep Batch

387083

387083

387083

387084

387083

387084

387083

387084

9

Analysis Batch: 387473 **Client Sample ID** Prep Type Matrix Method Prep Batch L582817 Total/NA Solid 6010C 387084 6010C L682817 Total/NA Solid 387084 L382917 Total/NA Solid 6010C 387084 L283017 Total/NA Solid 6010C 387083 Total/NA Solid 6010C 387083 BL183017 BL283017 Total/NA Solid 6010C 387083 BL383017 Total/NA Solid 6010C 387083 Total/NA Solid 387083 BL483017 6010C BL583017 Total/NA Solid 6010C 387083 387083 Total/NA Solid 6010C BL683017

Analysis Batch: 387616

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

QC Sample Results

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

TestAmerica Job ID: 280-100940-1

10

Method: 6010C - Metals (IC	CP)													
Lab Sample ID: MB 280-387083 Matrix: Solid Analysis Batch: 387317									Cli	ent S		ole ID: M Prep Tyj Prep Ba	be: To	tal/NA
Analyte		MB Qualifier		RL	I	MDL U	nit		DF	Prepare	əd	Analyz	ed	Dil Fac
Lead	ND			0.90		0.31 n	ng/Kg		09/	11/17 1	3:30	09/12/17	03:33	1
Lab Sample ID: LCS 280-38708 Matrix: Solid Analysis Batch: 387317	33/2-A		Spike		LCS	LCS		Clie	nt Sa	mple		Lab Cor Prep Typ Prep Ba %Rec.	be: Tot	tal/NA
Analyte			Added		Result		ier l	Jnit	D	%Re	C.	Limits		
Lead			50.0		50.2			ng/Kg		10		86 - 110		
Lab Sample ID: LCSD 280-3870 Matrix: Solid Analysis Batch: 387317	083/3-A		0.1		1.005		Cli	ent Sa	imple	e ID: L		Control Prep Tyj Prep Ba	be: Tot	tal/NA 87083
Analyte			Spike Added		Result	LCSD	ior I	Jnit	D	%Re		%Rec. Limits	RPD	RPD Limit
Lead			50.0		50.4	Guam		ng/Kg		10		86 - 110		
Lab Sample ID: MB 280-387084 Matrix: Solid Analysis Batch: 387317		МВ							Cli	ent S		ole ID: M Prep Tyj Prep Ba	be: Tot	tal/NA
Analyte	Result	Qualifier		RL		MDL U				Prepare		Analyz		Dil Fac
Lead	ND			0.90		0.31 n	ng/Kg		09/	11/17 1	3:30	09/12/17	02:25	1
Lab Sample ID: LCS 280-38708 Matrix: Solid Analysis Batch: 387317	34/2-A							Clie	nt Sa	mple		Lab Cor Prep Tyj Prep Ba	be: To	tal/NA
			Spike		LCS	LCS						%Rec.		
Analyte			Added		Result	Qualif		Jnit	D			Limits		
Lead			50.0		50.7		n	ng/Kg		10)1	86 - 110		
Lab Sample ID: LCSD 280-3870 Matrix: Solid Analysis Batch: 387317	084/3-A		Spike		LCSD	LCSD	Cli	ent Sa	imple) ID: L		Control S Prep Tyj Prep Ba %Rec.	be: To	tal/NA
Analyte			Added		Result		ier l	Jnit	D	%Re	C	Limits	RPD	Limit
-													_	

Initial

Amount

1.165 g

Initial

Amount

1.371 g

Batch

Number

387084

387317

Batch

Number

387084

387317

Final

Amount

100 mL

Final

Amount

100 mL

Dil

1

Dil

1

Factor

Factor

Run

Run

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

Batch

3050B

6010C

Batch

3050B

6010C

Method

Method

Client Sample ID: L182817

Date Collected: 08/28/17 13:15

Date Received: 09/07/17 09:15

Client Sample ID: L282817

Date Collected: 08/28/17 13:54

Date Received: 09/07/17 09:15

Client Sample ID: L382817

Date Collected: 08/28/17 14:20

Date Received: 09/07/17 09:15

Prep Type

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Batch

Туре

Prep

Analysis

Batch

Туре

Prep

Analysis

Lab Sample ID: 280-100940-8

Lab Sample ID: 280-100940-9

SEJ

Analyst

Prepared

or Analyzed

Prepared

or Analyzed

09/11/17 13:30

09/12/17 02:37 CML

09/11/17 13:30 SEJ 09/12/17 02:35 CML

2 3 4 5 6 7 8 9

Analyst Lab

TAL DEN

TAL DEN

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab TAL DEN

TAL DEN

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

Lab Sample ID: 280-100940-11

Lab Sample ID: 280-100940-12

Lab Sample ID: 280-100940-13

olid

[Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analvzed	Analvst	Lab
Total/NA	Prep	- 3050B			1.101 g	100 mL	387084	09/11/17 13:30		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

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

	Batch	Batch	Dura	Dil	Initial	Final	Batch	Prepared	Amalunat	Lab
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Initial

Amount

1.078 g

Initial

Amount

1.226 g

Dil

1

Dil

1

Factor

Factor

Run

Run

Batch

Method

3050B

6010C

Batch

3050B

6010C

Method

Client Sample ID: L782817

Date Collected: 08/28/17 16:15

Date Received: 09/07/17 09:15

Client Sample ID: L182917

Date Collected: 08/29/17 08:35

Date Received: 09/07/17 09:15

Client Sample ID: L282917

Date Collected: 08/29/17 09:10

Date Received: 09/07/17 09:15

Prep Type

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Batch

Type

Prep

Analysis

Batch

Туре

Prep

Analysis

Analyst

Analyst

SEJ

SEJ

Lab Sample ID: 280-100940-33

Lab Sample ID: 280-100940-14

Prepared

or Analyzed

09/11/17 13:30

Prepared

or Analyzed

09/11/17 13:30

09/12/17 03:03 CML

09/12/17 03:00 CML

Lab TAL DEN TAL DEN 11

Matrix: Solid

Lab

TAL DEN

TAL DEN

Matrix: Solid

Matrix: Solid

Matrix: Solid

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

Lab Sample ID: 280-100940-35

Lab Sample ID: 280-100940-36

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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**

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 Samp Date Collected Date Received

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Final

Amount

100 mL

Final

Amount

100 mL

Batch

Number

387084

387317

Batch

Number

387084

387317

Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Prep	3050B			1.227 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Analysis	6010C		1			387317	09/12/17 03:10	CML	TAL DEN
ple ID: L5 d: 08/29/17 d: 09/07/17	10:25 09:15		Dil		Final		Sample ID		
d: 08/29/17 d: 09/07/17 Batch	10:25 09:15 Batch		Dil	Initial	Final	Batch	Prepared	Ma	atrix: Soli
d: 08/29/17 d: 09/07/17 Batch Type	10:25 09:15 Batch Method	Run	Dil Factor	Amount	Amount	Batch Number	Prepared or Analyzed	Ma	atrix: Sol
d: 08/29/17 d: 09/07/17 Batch	10:25 09:15 Batch	Run				Batch	Prepared	Ma	atrix: Soli

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

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 280-100940-38

Lab Sample ID: 280-100940-39

Lab Sample ID: 280-100940-40

Lab Sample ID: 280-100940-41

Lab Sample ID: 280-100940-42

Lab Sample ID: 280-100940-43

2 3 4 5 6 7 8 9 10

Client Sample ID: L682917 Date Collected: 08/29/17 11:05

Date	Collected:	08/29/17 11:0	15
Date	Received:	09/07/17 09:1	15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Ргер Туре	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

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

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

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

Date Received: 09/07/17 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Initial

Amount

0.905 g

Initial

Amount

0.901 g

Final

Amount

100 mL

Final

Amount

100 mL

Batch

Number

387083

387317

Batch

Number

387083

387473

Dil

1

Dil

5

Factor

Factor

Run

Run

Batch

Method

3050B

6010C

Batch

3050B

6010C

Method

Client Sample ID: L183017

Date Collected: 08/30/17 09:40

Date Received: 09/07/17 09:15

Client Sample ID: L283017

Date Collected: 08/30/17 11:10

Date Received: 09/07/17 09:15

Prep Type

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Batch

Type

Prep

Analysis

Batch

Туре

Prep

Client Sample ID: BL183017

Date Collected: 08/30/17 11:15

Date Received: 09/07/17 09:15

Analysis

Analyst

Analyst

SEJ

SEJ

Lab Sample ID: 280-100940-58

Lab Sample ID: 280-100940-57

Prepared

or Analyzed

09/11/17 13:30

Prepared

or Analyzed

09/11/17 13:30

09/13/17 06:16 CRR

09/12/17 03:53 CML

Lab TAL DEN TAL DEN TAL DEN

Matrix: Solid

Lab

TAL DEN

TAL DEN

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

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

Lab Sample ID: 280-100940-60

Lab Sample ID: 280-100940-61

Lab Sample ID: 280-100940-62

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	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

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

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

Lab Sample ID: 280-100940-63

Lab Sample ID: 280-100940-64

Matrix: Solid

Matrix: Solid

1 2 3 4 5 6 7 8 9 10 11 12 13

Client Sample ID: BL583017

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

Γ		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Pr	ер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
To	otal/NA	Prep	3050B			0.814 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Тс	otal/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

[Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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



Report for:

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

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

Approved by:

Approved Signatory Noah Lazarte Dates of Analysis: Asbestos PLM: 09-19-2017

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

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: TestAmerica-Denver C/O: Donna Rydberg Re: 280-100940-1; Questa Pipeline- Lead and Asbestos 4955 Yarrow Street , Arvada, CO 80002 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

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 S	Samples with Layer Asbestos Content > 1%:	4
Location: 280-100940-1, A182817	Lab ID-Version	: 8373424
Sample Layers	Asbestos Content	
Gray Compound	ND	
Sample Composite Homogeneity:	Good	
Location: 280-100940-2, A282817 Sample Layers	Lab ID-Version: Asbestos Content	: 8373425
Brown Compound	ND	
Sample Composite Homogeneity:	Good	
Location: 280-100940-3, A382817	Lab ID-Version.	: 8373426
Sample Layers	Asbestos Content	
Brown Compound	ND	
Sample Composite Homogeneity:	Good	
Location: 280-100940-4, A482817	Lab ID-Version:	: 8373427

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

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EMLab ID: 1790994, Page 2 of 13

Lab ID-Version 1: 8373428-1

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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

Location: 280-100940-5, A582817

Sample Layers	Asbestos Content
Red Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good
Location: 280-100940-6, A682817	Lab ID-Version‡: 8373429-1
Sample Lavers	Ashestos Content

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

Location: 280-100940-7, A782817 Lab ID-Version 1: 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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Lab ID-Version 1: 8373434-1

Lab ID-Version 1: 8373435-1

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 Location: 280-100940-16, INS282817

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

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

Location: 280-100940-19, G282817

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

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

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good
Location: 280-100940-21, G482817	• •
Location: 280-100940-21, G482817 Sample Layers Brown Non-Fibrous Material	Lab ID-Version‡: 8373437- Asbestos Content ND

ocation: 280-100940-22, A182817	Lab ID-Version‡: 8373438
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 Content

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

Sample Layers

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

Gray Compound	ND
Sample Composite Homogeneity	Good
Location: 280-100940-25, A482817	Lab ID-Version‡: 8373441-
Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity	Good
Location: 280-100940-26, A582817	Lab ID-Version‡: 8373442-
Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity	r: 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 Content

ND

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

Sample Layers

Brown Compound

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

Sample Composite Homogeneity: Good

Gray Compound	ND
Sample Composite Homogeneity: Goo	1
Location: 280-100940-29, A882817	Lab ID-Version‡: 8373445-1
Sample Layers	Asbestos Content
Brown Compound	ND
Diowin Compound	
Sample Composite Homogeneity: Goo	1
*	
Sample Composite Homogeneity: Goo	
Sample Composite Homogeneity: Goo Location: 280-100940-30, A982817	Lab ID-Version‡: 8373446-1
Sample Composite Homogeneity: Goo Location: 280-100940-30, A982817 Sample Layers	Lab ID-Version‡: 8373446-1 Asbestos Content ND
Sample Composite Homogeneity: Goo Location: 280-100940-30, A982817 Gample Layers Gray Compound Gray Compound	Lab ID-Version‡: 8373446-1 Asbestos Content ND
Sample Composite Homogeneity: Goo Location: 280-100940-30, A982817 Gray Compound	Lab ID-Version‡: 8373446-1 Asbestos Content ND

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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 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
Location: 280-100940-44, G182917 Sample Layers	Lab ID-Version‡: 8373449-1 Asbestos Content

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 Content

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

Sample Layers

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

Sample Composite Homogeneity: Good

Brown Non-Fibrous Material	ND
Sample Composite Homogenei	ty: Good
location: 280-100940-48, PL182917	Lab ID-Version‡: 8373453-1
Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogenei	ty: Good
Location: 280-100940-49, A183017 Sample Layers	
Location: 280-100940-49, A183017 Sample Layers Gray Compound	Lab ID-Version‡: 8373454-1 Asbestos Content ND
Sample Layers	Asbestos Content ND
Sample Layers Gray Compound	Asbestos Content ND ty: Good
Sample Layers Gray Compound Sample Composite Homogenei	ND

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Asbestos Content

ND

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

Sample Layers

Brown/Black Non-Fibrous Material with Paint

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

ocation: 280-100940-52, BA283017	Lab ID-Version‡: 8373457-
Sample Layers	Asbestos Content
Brown/Black Non-Fibrous Material with Paint	ND
Sample Composite Homogeneity: Good	
ocation: 280-100940-53, BA383017	Lab ID-Version‡: 8373458
Sample Layers	Asbestos Content
Brown/Black Non-Fibrous Material with Paint	ND
Sample Composite Homogeneity: Good	
agation, 280 100040 54 PA 482017	Lab ID-Version‡: 8373459-
ocation: 280-100940-54, BA483017	•
Sample Layers	Asbestos Content
Brown/Black Non-Fibrous Material with Paint	ND

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Lab ID-Version[†]: 8373462-1

Lab ID-Version 1: 8373463-1

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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

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

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

Location: 280-100940-66, INS283017

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

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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 Location: 280-100940-67, VG183017

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

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 1: 8373467-1

Lab ID-Version 1: 8373466-1

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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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 Location: 280-100940-71, PW283017

Lab ID-Version 1: 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 Lavore	Ashestes Content

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

Chain of Custody Record



4955 Yarrow Street	0	Chain of Custody Record	f Cust	od V Re	cord							
Arvada, CO 80002											HE LEWOER IN BY	THE LENGER IN ENVIRONMENTAL TERTING
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Gompony. EMLab P&K				-	Accestrations Required (See note): NELAP - Oregon	qured (Soo nok Ion	4.			22 1	Job #: 280-100940-1	
Address: 4855 Yarrow Street,	Due Date Requested: 9/19/2017	i i				Ana	nalysis Rec	Requested			A • HCL M	M - Hexane
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TestAmerica Denver

4955 Yarrow Street Arvada, ICO 80002

Chain of Custody Record

TestAmerica

Slate, Zp; CO, 80002 A182917 (280-100940-22) G482817 (280-100940-21) G182817 (280-100940-18) Arvada, CO 80002 Phone (303) 736-0100 Fax (303) 431-7171 Empty Kit Reunquiched by: A482917 (280-100940-25) A292917 (280-100940-23) 6392817 (280-100940-20) G282817 (280-1009-40-19) PL182817 (280-100940-17) Sample Identification - Client ID (Lab ID) ŝ EMLab P&K Shipping/Receiving Client Information (Sub Contract Lab) Rolineushed by Doliverable Requested: I, II, III, IV, Other (specify) Voxe: Signe Sobordary according to change, Yeadymerical Laboratories, Inc., paper the extensible of mathed, sociaditation compliance upon out subcontract laboratores. The sample onlymost is forwarded under shain-strainary does not surrantly maintain accordingion in the State of Origin advector provided parts of the angles, the samples and the state of Origin and T A382917 (280-100940-24) l Questa Pipeline - Lead and Asbestos cperry ternquahed by Possible Hazard Identification 1955 Yarrow Street fojoci, Noma: nconfirmod TRACTOR ent Conlact: Project #: 26017197 Sempler: 10. Finance: Date Three Date Time. Primary Deliverable Rank; 2 Sampio Doto Signation of the second P 2 2 2 TAT Required (days): 9/19/2017 8/29/17 8/28/17 8/25/17 8/29/17 8/28/17 8/26/17 8/29/17 8/26/17 8/26/17 Date Requested: Date: <u>-Movntain</u> 14:50 Mountain 09:45 Mountain 14:50 Nountsin पर्ह्ता जन्हराजिय Nouces 08:35 .Mauntain 16;40 16:40 16:40 01:60 1120750 Sampla Gegrab (C=comp. Sample Туро Company Company Told, Motrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Leb PM: Rydberg, Donna R C-Mail; donna.rydberg@lestamericaine.com r wid rates of single free or this contains Accorditations Haculted (See note): NELAP - Oregon Certaine USAISD (Certor May SUB (Asbastos - PLM by EPA 500/R-93/115 (price p Sample Disposal (A fee may be assessed if samples are retained longer than 1 menth) Return To Client Disposal By Lab Archive For Monte Special Instructions/QC Requirements: Refurn To Cilent Recolved by: Received by: × × × × × × × × × syer)y Astesios - PLM by EPA 600/R-93/116 (pric 178日第3日第3日第3日 001790994 Analysis Requested Colorado Carrier Tracking No(s): State of Origin Method of Shoment Delia 11/8/17 1900 Date Time Total Romber of could let 88 38 S (4) A - HCL B - Nach B - Nach F - Other: 280-411382.2 Preservation Codes 280-100840-1 Pago 2 dí 6 a a Special Instructions/Note: M - Hexane N - Netro O - Astro O - Astro O - Astro O - Astro P - Net CO S - Hos S - Ho Europary (here and Months Jes,

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TestAmerica Denver 4955 Yorrow Street





Chain of Custody Record

State, Zip: CO, 80002 Arvada, CO 80002 Phone (303) 735-0100 Fax (303) 431-7171 Phone: Shipping/Receiving Client Information (Sub Contract Lab) G182917 (280-100940-44) Sampio Identification - Client ID (Lab ID) Questa Pipeline - Lead and Asbestos Ï Sinds EMLAS P&K G282917 (280-100940-45) A1182917 (280-100940-32) A1082817 (280-100940-31) A982917 (280-400940-30) A892917 (280-100940-28) A782917 (280-100940-28) 955 Yarrow Street, odingoo. scie: Since laboraly secrediations are subject to change. Test/mente Laborations, int, places the extension of mathod, analyte & accreditation compliance upon out automatives. This sample showerd of tervardost under chain-disualidy. If the abdationy does not barronity maintain accreditation in the State of Origon barre transportations to being analyzed, the complice, must be apped back to the Test/America laboratory or other least-clipter, will be provided. Any change to extremible should be brought to Test/America laboratory or other least-clipter, will be provided. Any change to extremible should be brought to Test/America laboratories to the Least-Clipter, will be provided. Any change to extremible a brought to Test/America laboratory, the change to extremible and the should be brought to Test/America laboratory, the change the state of the should be and the state of the should be analyzed. The source of the state and the should be and the should be analyzed back to the Test/America laboratory or other least-clipter, will be provided. Any change to extend be brought to Test/America laboratory, the change that the should be analyzed. The advatter of the should be analyzed back to the should be analyzed been at the should be and the should be analyzed been at the should be advatter at the should be advatted by attending to said complicance to Test/Imerica. Inc. 4682917 (280-100940-27) INDEX NOTES Empty Kit Rolinguished by: Deliverable Requested: 1, 11, 11, 11, 1V, Other (specify) Possible Hazard Identification 6582917 (280-100940-26) ont Contect: tounguished by: winquisted by: hoomhaad 0vo Dato Roquestod: 9/19/2017 Phone 1710/001.M 280/17/187 WO (?) TAT Requested (days): Samolon 30.8 WMDSS UpperTires: Primory Deliverable Rank: 2 Sampla Data 8/29/17 8/28/17 8/29/17 8/29/17 8/29/17 8/29/17 8/29/17 8/29/17 8/29/17 The second Mountein 11:05 Mountain 11:40 Mosantein 11:55 Mountain 12:30 Uate: . Mountain 09:25 Mountain 16:40 02:60 **L**[07:60 <u>미야미에</u> 15:10 Sample Gegrab (С=сопр Т¥р Sampla Control (1998) Number of Contemporate Contomy Compony (ni-mater, Barrille, Matrix Solid Solid Solid PlloS Solid Squid Solid Solid Solid E-Mail: donne.rydborg@jtestamericeinc.com Rydberg, Donne R Leo HM: Field FRIAted Samola Fras Accreditations Required (See note); NELAP - Oregon I me: MS/MSID (Yes of h Special Instructions/OC Recuirements: Sample Disposal (A fee may be assessed if samples are rotained longer than 1 month) Return To Cilent Disposel By Lab Archive For Ident SUB (Asbestos - PLM by EPA 500R-99118 (price pe layer)) Asbestos - PLM by EPA 600R-99118 (price × × × × Hooghod by: VOCUMBO DV × × × × × Analysis Requested State of Origina Colorado Canter Tracking No(o): Malhad of Shipmerti Dale Fine: DaterTime C L1/2/ 48) ž Fold Hole P B-A-HCL B-A-HCL D-Niric Acid F-NauHSD4 F-NauHSD4 F-NauHSD4 H-Addroise Acid I-H2 K-CDTA 280-411382.3 8 Preservation Codes: 280-100940-1 Page 3 of 6 8 Special Instructional/Note: ģ N - Howard N - Nova O - Asvince O - No2043 P - No2043 P - No2007 R - No25200 S - H2504 S - H2504 S - H2504 V - Acche V - Acche V - Acche V - PH 4-5 Company En-lato Z - otho: (specify) Company Months 8

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TestAmerica Denver 4955 Yanow Steet Arrado, CO 80002

Chain of Custody Record

TestAmerica

Arvada, CO 80002				•						THE CODER IN B	THE CEADER IN DAVISONNELLINE TESTING
	Samp'or(Lob PM: Rydber	Lab PM: Rydberg, Donna R	~	Carner Tradung No(a):	10 ND(8):		000 Ng. 280-411382.4	
	Phone:			donut E-Mai:	e-Mai: donno.rydberg@tostemoricei	stewericeinc.com	State of Origin; Colorado	-		Page 4 of 6	
Company EMLab P&K					Acceditations Required (See NELAP - Dregon	taquinad (See note); Igon				Jab #: 280-100940-1	
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G482817 (280-100940-47)	8/23/17	10:25 Mountain		Salid	×						
PL182917 (280-100940-48)	8/23/17	10:30 Mountain		Solid	×						
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TestAmerica Denver 4955 Yarrow Street Arvada, CO 60002

Chain of Custody Record



Denore (2012) 725-0100 Fax (2012) AS4-7171										
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on (one contract rac)	Ρησια:			E-Mail:	vdoera@le	E-Mail: donna.rydberg@testomericainc.com	Sipla & Orgh: Colorado		Page 5 of 6	
Company. EMI-ab P&X				28	NELAP - Oragon	NELAP - Oragon			дар и: 280-100940-1	
r Street	Dua Dato Requestad: 9/19/2017	-				Analysis Requested	quested		A - HCL M	M-House
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INS283017 (220-100940-66)	8/30/17	09;15 Mountain		Solid	×		-			
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VG283017 (280-100940-68)	8/30/17	09;30 Mountain		Solid	×				2000	
VGS83017 (280-700940-89)	8/30/17	09:40 Mountain		Solid	×		. <u>-</u>		3322	
PW183017 (280-100940-70)	8/30/17	15:10 Mountain		Solid	×					
PW/283017 (280-100940-71)	8/30/17	15:20 Mautain I		Solid	×					
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TestAmerica Denver 4955 Yarrow Street Avvada, CO 80002

Chain of Custody Record



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COC No; 280-411382.6	Corrier Fracking No(a): CC	-	Cub MM: Rydberg, Donna R	Cab PM: Rydber			Sampion	Client Information (Sub Contract Lab)
					ľ			Phone (303) 736-0100 Pax (303) 431-7171

Client Information				2
	Sampler, KUPILIIK	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-67249-22759.1
client Contact. Fony Kupilik	Phone: (367)フィジーフィフダ	E-Mail: donna.rydberg@testamericainc.com	com	Page: Page 1 of 1
ompany: Trihydro Corporation		An	Analysis Requested	Job #:
Adress: 1252 Commerce Drive	Due Date Requested:			Code
City Laramie	TAT Requested (days):			B - NaOH N - Nexane B - NaOH N - None C - Zn Acetate O - AsNaO2
state, Zip: WY, 82070	10 i>AY			
Phone:	Po #: Purchase Order Requested	11112		Acid
Email: Ikupilik@trihydro.com	1-252M0-1	(ON		I - Ice J - Di Water
Project Name: Questa Pipeline - Lead and Asbestos Site:	Project #: 28017197 SSOW#:	(Yes or		L - EDA L - EDA Other:
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Sample Identification	Sample Date Time G=grab) 8 Preservati	-		K Special Instructions/Note:
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Custody Seals Intact: Custody Seal No.: A Yes A No		Cooler Temperature(s	coold Temperature(s) "C and Other Bamarks:	by 35 9/117

Arvada, CO 80002 Phone (303) 736-0100 Fax (303) 431-7171	Chain of Cus	of Custody Record		THE LEADER IN ENVIRONMENTAL TESTING
Client Information	Sampler:	Lab PM Rvdberg, Donna R	Carrier Tracking No(s);	COC No: 280-67249-22759.1
Clent Contact Tony Kupilik	LHL -3	E-Mait: donna.rydberg@testamericainc.com	1	Page: Page 1 of 1
Company: Trihydro Corporation		Analysis	Analysis Requested	Job#:
Address: 1252 Commerce Drive	Due Date Requested:			Cod
City: Latamie	TAT Requested (days):			B - NoCH M - Hexane B - NaOH N - None C - Zn Acetate O - AsNa02
State, Zip: WY, 82070	ID DAYS			D - Nitric Acid P - Na204S E - NaHSO4 Q - Na2SO3
Phone:	Po#: 17 - 252 WO Purchase Order Requested	1		F - MeOH R - Na2S203 G - Amchlor S - H2SO4 H - Ascorbic Acid T - T5P Dodecahydrate
Email: Jkupiilk@trihydro.com	11-252 WO-L	and the second second		I - Ice J - Di Water
Project Name: Questa Pipeline - Lead and Asbestos	37	and the second second second		K - EDA
site:	SSOW#:	N) asi		of Other:
	Sample	Matr (w=we S=sol		otal Number
		ation Code: X		
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L282817	1354	X		
L382817	1420	S X S		
L182817	8/28/17 1440 G	S X X		
L582817	8/28/17 1450 6	x S		
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ant	Poison B Unknown Rediological		y be assessed if samples are	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client X Disposal By Lab Archive For Months
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Reinquisted by: T. KUPILIK	Date:Time: 9/6/17@ 1500	HC Receiv	Date/Time:	0160 1112
Reinquished by: Reinquished by:	Date/Time: Date/Time:	Company Received by: Company Received by:	Date/Time: Date/Time:	Company Company
Custody Seals Intact ¹ Custody Seal No 1				

TestAmerica Denver 4955 Yarrow Street Arvada, CO 80002 Phone (303) 736-0100 Fax (303) 431-7171	Chain of Custody Record	tody Rec	ord	TestAmerica THE LEADER IN EWIRONMENTAL TESTING
	Sampier:	Lab PM:	Lab PM: Carrier Tracking No(s)	
Client Information	KUTLIK	Kydberg,	Donna K	5-15177-64710-0
Construction Contract. Tony Kupilik	1307)745-7474	donna.ry	donna.rydberg@testamericainc.com	Page 1 of 1
Company. Trihydro Corporation			Analysis Requested	JOD #:
Address: 1252 Commerce Drive	Due Date Requested:			00
City. Laramie	TAT Requested (days):			
State, Zip WY, 82070	10 047			D - Nitric Acid P - Na2O4S E - NaHSO4 D - Na2SO3 E - Man2SO703
Phone:	PO#:	(0		D
Email: Ikupilik@trihydro.com	1-252M0-1-	N 10 2	_	I - Ice J - DI Water K - FDTA
Project Name: Duesta Pipeline - Lead and Asbestos	Project #: 28017197	ple (Ye	-	L-EDA
Step.	SSUW#:	ms2 t	-	r of co
Cample Identification			12M molie	edmuN leto
		ation Code:		
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Relinquished by:	Date/Time:	Company	Received by:	
Custody Seals Intact: Custody Seal No.: A Vac A No.			Cooler Temperature(s) ^a C and Other Remarks:	
			1 1 1 1	
			0 1 2 3 4	2

Page 46 of 53

	Sampler: Rupicul V Prone:	Lab PM: Rydberg, Donna R	Carrie	Carrier Tranking No/el/	
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ration ce Drive) フィビテー フィリイ Io.com		E-Mail: donna.ryd	E-Mail: donna.rydberg@testamericainc.com		Page 1 of 1
ce Drive) フィジー フィコイ			Analysis Requested	ted	Job #:
) フィジー フィーイ Io.com	Due Date Requested:				8
) דאקר ד-ארל ro.com	TAT Requested (days):				
) דאקר בכאר וס.com	10 247				D - Nitric Acid P - Na2045 E - NaHSO4 Q - Na2SO3 E - Macht P - Marceona
ro.com	PO #:	(0)	5		P
	MO#17252W0-L	- You 1000			1 - Ice J - Di Water K - FDTA
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A982917	1230		X		
A1082917			×		
A11 82517	V 1640 *	>	X		
Possible Hazard Identification	In B K Unknown Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client X Disposal By Lab Archive For Mon	ssed if samples are reta	ained longer than 1 month) rchive For Months
ested: I, II, III, IV, Other (specify)	11		Special Instructions/QC Requirements:		
Empty Kit Relinquished by:	L	Time	ne: // // //	Method of Shipment	
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Custody Seals Intact: Custody Seal No.: A Yes A No			Cooler Temperature(s) "C and Other Remarks:	3	

Page 47 of 53

I estAmerica Denver 4955 Yarrow Street Arvada, CO 80002 Phone (303) 736-0100 Fax (303) 431-7171	Chain of Custody Record		
Client Information	Sampler	Lab PM: Rydberg, Donna R	(s): COC No: S
Client Contact: Tony Kupilik	Prene: (301) フィジーフィフイ	E-Mail; donna.rydberg@testamericainc.com	Page 1 of 1
Company: Trihydro Corporation		Analysis Requested	:# QOP
Address: 1252 Commerce Drive	Due Date Requested:		8
city. Laramie	TAT Requested (days):		
State, Zlp: WY, 82070	10 DAY		
Phone:		(0)	C - MeDOT A - MACOT A - MACOTO C - Amotolor A - Ascorbior A - Ascorbior Acid T - TSP Dodecahydrate
Email: tkupilik@trihydro.com	17-252W0-L	and the local division in which the	I - Ice J - Di Water K - EDTA
Project Name. Ouesta Pipeline - Lead and Asbestos	Project #: 28017197 sscnuw-	Ves or	
016-		meS be	
Sample Identification	Sample Mi Type (w (w) C=comp, ose Sample Date Time G=qrab) 81°118	Matrix (Woods, Filter & Secold Secold. Consector. Bir-Texa, Anda) File D	Total Number
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L 28 2917	0210		
L382917	0945		
	1005		
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L782917	0111		
L152821	-2511		
L1828P1	1230		
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Reimquished by,	Date/Time: Company	pany Received by:	Date/Time: Company
Custody Seals Intact: Custody Seal No.: A Yes A No		Cooler Temperature(s) "C and Other Remarks.	
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			2 3 4 5 7

hone (303) 736-0100 Fax (303) 431-7171					THE LEADER IN ENVIRONMENTAL TESTING
client Information	Sampler. Kupilik	Lab PM: Rydberg	Lab PM: Rydberg, Donna R	Carrier Tracking No(s): COC	COC No. CO
Hent Contact: onty Kuphilik	1307) 745-7474	E-Mail: donna.r	E-Mail: donna.rydberg@testamericainc.com	Page	Page Page 1 of 1
ompany: rihydro Corporation			Analysis Rec	Requested	#
ddress: 252 Commerce Drive	Due Date Requested:			Pre	
ity. aramie	TAT Requested (days):				A - HCL M - HEXARE B - NaOH N - None C - Zn Acetate O - AsNaO2
tate, Zlp: VY , 82070	10 047				
hane:		(0		ĹĊĬ	
mail. kupilik@trihydro.com	WO# 17-252WO-L	s of N	(ON		1-Ice U-Acetone J-Di Water V-MCAA
roject Name: Questa Pipeline - Lead and Asbestos site:	Project#: 28017197 SSOW#:	9Y) 9Iqmi	D (Yes or		
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sample Identification	Sample Date Time G=grab)	ation Code:	_		special Instructions/Note:
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G482917	1025		×		
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Possible Hazard Identification	Poison B KUnknown Radiological	ical	Sample Disposal (A fee may be	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon	longer than 1 month) • For Months
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Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Custody Seal No.:	-		Cooler Temperature(s) "C and Other Remarks:	Remarks:	

Page 49 of 53

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Client Information	KUPILIK	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No:
cirent contact: Tony Kupitik	(301)フリジーフリア	E-Mail: donna.rydberg@testamericainc.com		Page 1 of 1
Company: Trihydro Corporation		Analysis Requested	luested	Job #:
Address: 1252 Commerce Drive	Due Date Requested:			
City: Laramie	TAT Requested (days):			
State, Zip: WY, 82070	10 047			
Phone:	PO#.	(0		G - Amchior S - H2SO4 H - Ascorbic Acid T - TSP Dodecah
Email: tkupilik@trihydro.com	-0N252-L1	(ON		
Project Name: Questa Pipeline - Lead and Asbestos Site	Project #; 28017197 sscow#:	(Xes of		L - EDA Other
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ant	Poison B Nunknown Rediological		assessed if samples are re Disposal By Lab	etained longer than 1 month) Archive For Months
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Relinquished by:	Date/Time:	Company Received by:	Date/Time:	Company
Custody Seals Intact: Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks	Remarks.	

Page 50 of 53

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4955 Yarrow Street Arvada, CO 80002 Phone (303) 736-0100 Fax (303) 431-7171	Chain of Custody Record	tody Record	TestAmerica
Client Information	Rupir K	: arg. Donna R	Carrier Tracking No(s); COC No: B
Client Contact: Tony Kupilik	1307)745-7474	E-Mail: donna.rydberg@testamericainc.com	Page: Page 1 of 1
Company: Trihydro Corporation	Υ.	Analysis Requested	Job#
Address: 1252 Commerce Drive	Due Date Requested:		
cliy. Laramie	TAT Requested (days):		
State, Zip: WY, 82070	10 DAY		
Phone:		(0	F-MeCH K-NA25203 G-Amchlor S-H2SO4 H-Ascorbic Add T-15P Dodeshydrate
Email: tkupilik@trihydro.com	1-0N22-L1		1 - Ice U - Acetone J - Unater U - Acetone C - crivialer U - Acetone
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Page 51 of 53

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Control Control <t< th=""><th>Client Information</th><th>Sampler KUPILIK</th><th>: srg, Donna R</th><th>COC No:</th></t<>	Client Information	Sampler KUPILIK	: srg, Donna R	COC No:
Andreside Andreside <t< th=""><th>Client Contact. Tony Kupilik</th><th></th><th>E-Mail: donna.rydberg@testamericainc.com</th><th>Page 1 of 1</th></t<>	Client Contact. Tony Kupilik		E-Mail: donna.rydberg@testamericainc.com	Page 1 of 1
По сла с посла посла на	Company. Trihydro Corporation		Analysis Reque	
Плании	Address 1252 Commerce Drive	Due Date Requested:		00
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le 「Skin Intiant 」 Poison B 火 Unknown 「Radiological Return To Client 」 Disposal By Lab Archive For Archive For Disposal By Lab Archive For Disposal By Lab Archive For Disposal By Lab Archive For Disposal By Lab Archive For Archive For Disposal By Lab Archive For Disposal			1	
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Date/Time: Date/Time: Company Received W Pate/Time: Date/Time: Date/Time: Company A 16/17 0 15 0 T Company Received by: Date/Time: Date/Time: Company Date/Time: Date/Time: Company Received by: Date/Time: Date/Time: Company Date/Time: Date/Time: Company Received by: Date/Time: Company Custody Seal No:: Excerved by: Cooler Temperature(s) "C and Other Remarks: Company	Empty Kit Relinquished by:		Time: A A	
Date/Time: Company Received by: Date/Time: Date/Time: Date/Time: Company Received by: Date/Time: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:	Reinquished by: て、 K い ア・トレート	17 (B)	J	7/17 09,10 Company
Date/Time: Company Received by: tails Intact: Custody Seal No.: A No	Relinquished by:		Receiv	
Custody Seal No.: Cooler Temperature(s) [*] C and Other Remarks:	Relinquished by:	Date/Time:		
			Cooler Temperature(s) ^a C and Other Reme	rks:

Page 52 of 53

Client: Trihydro Corporation

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

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

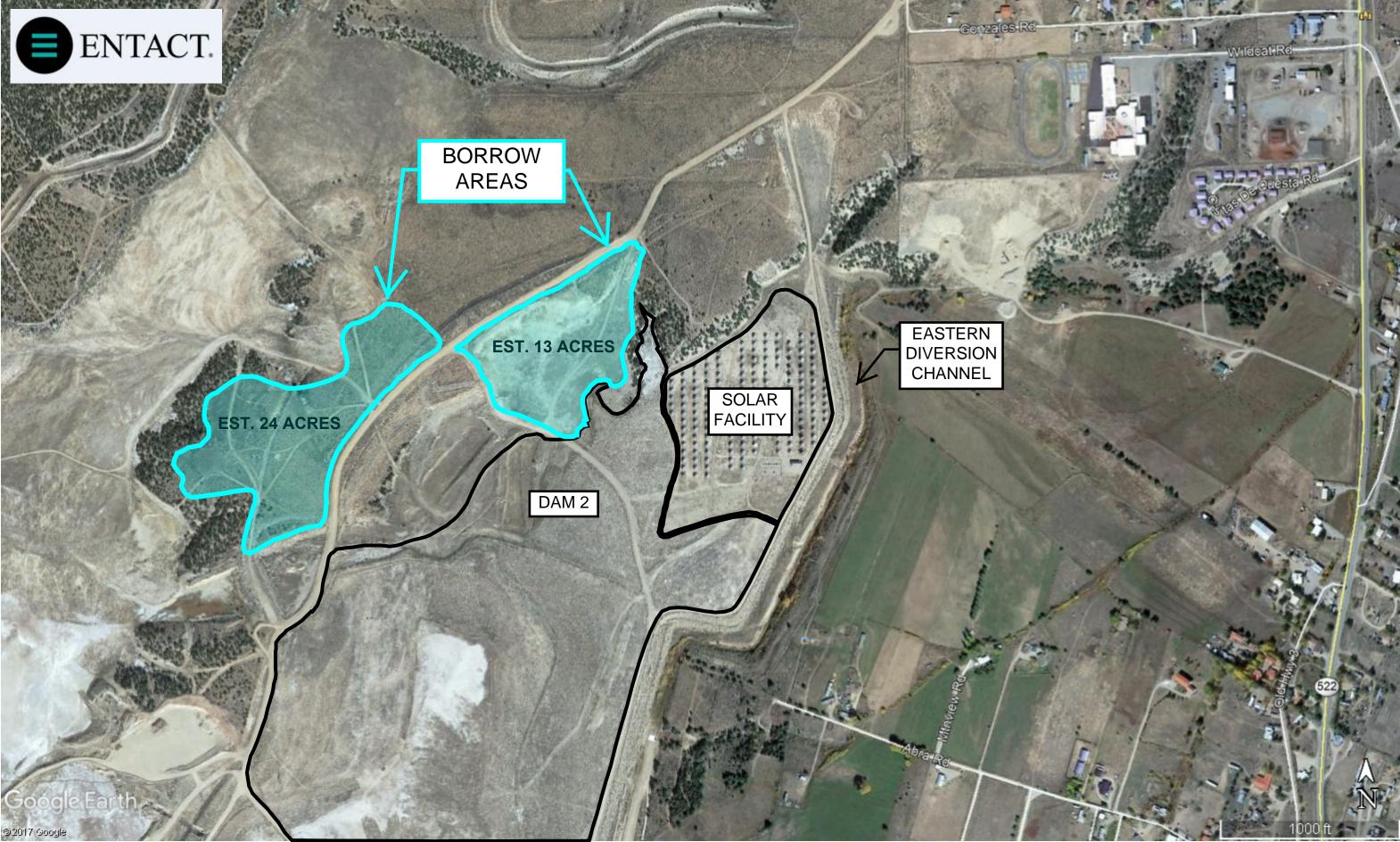
Job Number: 280-100940-1

List Source: TestAmerica Denver

APPENDIX B

BORROW AREA MAP





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:									
Trihydro		1. BUL, BUM, or TL:							
		2. Project Director:							
Irinyaro		 Project Manager: Field Supervisor: 							
CORPORATION		5. Safety Officer/Lead:							
Business unit name:									
Client name:		Names and initials of other p	•						
Project name and number:		1. Project-team members:							
Date review performed:		2. Contractor(s):							
Scheduled project-start date:		3. Subcontractor(s):							
Scheduled project-end date:									
	Work-Related Hazards								
Work-Scope Tasks	(refer to the 3x5 Hazard-Assessment Triangle)	Anticipated Ha	azard-Mitigation	n Measures					
Pre-Fieldwork Safety-Readiness Review Checklist			Yes	No	N/A	CAN			
1 Has the project team secured the necessary safet	y and other work permits required to complete the p	roposed 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?				L			
	eed to be prepared by the project's subject-matter ex					<u> </u>			
4 team, and marked up where appropriate before sta									
	s 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-pho									
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?								
	,				-				
		•							
10 Do all project-team membersincluding contractor	s and subcontractorsunderstand Stop Work Author	rity and the "Slow Down" approach?							
11 Have all applicable PPE (e.g., PID, FID, H2S dete	11 Have all applicable PPE (e.g., PID, FID, H2S detector, etc.) and emergency-response equipment been secured and checked for this project?								
13 If a client site-specific orientation is required, have all team members completed the required training?									
4 Have SSE mentors been assigned and provided with instructions for overseeing each SSE team member?									
4 Have SSE mentors been assigned and provided with instructions for overseeing each SSE team member?									
Have topics been developed and assignments made for the daily project-safety meetings, including discussing potential daily- and task-specific									
6 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 observa									
18 Has the project team been reminded that journey-	management plans (JMPs) should be used during th	ne project where appropriate?							
19 Is a traffic-management plan needed for this proje	ct and has it been completed and communicated to	the project team?							
	eas (e.g., trenches, confined spaces, active units) b								
	(e.g., lockout / tag out, swinging, rotating, backing)								
	ocating Checklist been completed for each drilling/ex								
 Best Practices" training session? 	rm drilling/excavation work completed the Trihydro "S	Subsurface Offinity Location and Excavation Safety							
	ed in accordance with Trihydro and client procedure	s?							
25 Is a plan in place for communicating, managing, all									
26 Is a plan in place for transitioning and training char		instant situate the based of							
27 Has the project team assessed potential task- or s		÷							
	to be on site for the onboarding, kickoff, and initial s k types, > one week duration, etc.)? If so, please inc								
· · ·	e on site in the "Review / Non-CAN Item Comments								
Have all contractors/subcontractors been evaluate	ed, qualified, selected, and approved by the BUL bas	eed on Tribydro and/or client-specific							
requirements?	sa, qaamoa, oolooloa, ana appiovea by the DUL ba	sea en minyare anaver ellent-apdelle							
	or the early stages of all major field projects? If so,								
the date he or she plans to perform the safety aud	lit in the "Review / Non-CAN Item Comments" box b	elow.							
Findings / Corrective-Action Needed (CAN) Summa	ary								
CAN Item No.			Responsible	Target	Completed				
(i.e., 1 through 30 from the checklist above)	Description	of CAN Item	Person	Date	Date	Initials			
<u> </u>									
Review / Non-CAN Item Comments:									
C:\Users\msmueles\Desktop\H&S\6-28-2016-PFSRR.xIsx					Revision 3: N	ovember 2, 2016			

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 Safet	y Manager		10/25/2012		
2. Torrey Fox	Geologist			6/10/11		
3.						
Personal Protective Equipment (PPE)	Needed:			I		
Eye and Face Protection	Body Protection		Fall Protection			
□ Safety Glasses	Fire Retardant Coveralls		Barriers/Guard Rails			
Face Shield	Poly-coated Tyvek Coveralls		Safety Ne	et		
Chemical Goggles			Personal	Fall Arrest System		
Head Protection	Chemical Resis			spiratory Protection		
Hard Hat	Reflective Safet	Reflective Safety Vest		Half-Face Air Purifying Respirator		
Hearing Protection	Cooling Vest		Full-Face	Air Purifying Respirator		
Ear Plugs	Long sleeved sl	hirt	Chemical	Cartridge		
Ear Muffs	Biological Protect	ion	Particulat	e Filter		
Hand Protection	Snake Gaiters		Cartridge	Cartridge/Filter Combo		
Industrial Work Gloves	Sunscreen		Ammonia	mmonia Cartridge		
Chemical Resistant Gloves	Insect Repellan	t	H2S Esca	2S Escape Cartridge		
Laceration Resistant Gloves	Hazardous Atmos	phere Protection	Asbestos	Filter (P-100)		
Foot Protection	Air Monitoring E	Equipment		Air Purifying Respirator		
Leather Boots	Ventilation Fan		(PAPR) (cont	tact H&S dept.)		
Steel-Toed Boots	Level C		Supplied	Air Respirator (SAR)		
Chemical Resistant Boots	Level B (contac	ct H&S dept.)	(contact H&S	S dept.)		
Water Safety	Level A (contac	ct H&S dept.)	Self-Cont	ained Breathing		
Personal Flotation Device	Decontamination	Materials	Apparatus (S	CBA) (contact H&S		
□ Waders	Equipment Dec	ontamination	dept.)			
<i>── Other:</i> Fire extinguisher	Personnel Deco		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)		A. Personal Injury (Gravity) B. Property damage or physical injury (Motion)	 A. Check the JMP before proceeding to the vehicle. B. Assess if journey is needed due to weather conditions (e.g., snow, ice, rain, wind). Check before each vehicle trip around the site since work areas can be changed throughout the day. 	
Perform vehicle inspection (all drivers)		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 	

Job Steps	н	lazard(s	5)	Potential Hazard(s)	Critical Action(s)	Responsible Person
	-		x			
Configure seating and controls and lock doors (all drivers)				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)	でしていてい			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)				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)	できてきで	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)		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	Ha	azard(s)			Potential Hazard(s)		Critical Action(s)	Responsible Person
Post drive (all drivers)	° -	x	x	A.	Personal Injury / Property damage (Gravity)(Motion)	А.	 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 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 JS to be u permar	SA need pdated nently?	Responsible Person
	•		Yes	No	

DAILY TAILGATE SAFETY MEETING



NC)TE: A new i	tailgate meeting	g must	be conduc	ted if con	ditions,	location, or p	ersonnel change		-	
Da	ite:			_ Time: _		_ 🗌 a.r	m. 🗌 p.m.	Location:			(city, state)
		:									
		•									
<u> </u>	mmitmont	to Safaty									
1.		-	mily Trik	avdro clionte	and contract	tore by wa	tching for and				
1.	mitigating risky complying with	nyself for me, my fa y behaviors, exercis h Trihydro and clien	sing stop nt policies	work authority s, procedures,	y to prevent and JSAs/J	incidents LAs	and injuries and	-		1	lrihydro
2.	. I understand that safety is my personal responsibility and that working safely is a key component in providing quality work.										ost serious risks
3.		ample for my fellow					, ,	у.			
4.		ensively and "Safely s and regulations.	y for My	Family," abidin	ng by Trihyd	ro and clie	ent policies and			'3v5'H	azard Assessment
5.	I will "slow dow task efficiently	wn" appropriately to and safely.	work at	a pace that wi	ill allow me a	and others	s to complete eac	sh		×L-0	
6.		elf accountable for ne, my coworkers, o						ut		n mos	t frequent risks
								· · · · · · · · · · · · · · · · · · ·		.1 11	
	" Stop Work A	(SVVA) –	Every	one nas the	autnority a	ina obliga	ation to immedi	iately stop all unsai	e wor	К.	
lde	entify High-Ha	zard Work:									
	Hot Work			Elevated/o	verhead w	ork	Boat / ov	ver-water operation	S		Work involving equipment
											within 15' of active overhead electrical line or
	LOTO			Excavation	ns - any			on, removal of and buried structu	roo		pole supporting an electric
	Confined S	pace Entry		Drilling - ar	ny		pipeiiries		lles		line
Δs	sociated a	nd Identified	Haza	rds:			High-press	sure processes		Pinch	n points
	Abrasions, cu		_	arthquake			_ · ·	erature processes			er tools
		& co-workers)		lectrical			_ • · · ·			Pulled into	
_	Asbestos	,		quipment fai	ilure		_ • _		ation/X-ray		
Π	Biological			rgonomic			Lightning			Secu	
	Buried utilities	5		Excavations in	n area?		Loud noise	9			ere weather
_	Burn hazards		_	alling			Machine ge				
	Chemical exp			Fire/explosion	n		Motor vehi	-			, trips, falls
_	Cold stress			I ₂ S				/fixed blades			surface utilities
	Compressed	nases		land injury						Traffi	
	•	-		leat stress			Overhead			Wate	
	Crane or lifting equipment Crane or lifting equipment Drilling in area? Heavy equipment			Pedestrian				r:			
	Drining in area	α:	<u> </u>	cavy cquipi	lont					Ouric	
Se	e it! Identi	ify Current O	bjecti	ve Hazaro	ds:						
Ass	sess Trihydro's	•	-		Assess T		5 Most	Othe	r Haza	rds	
Ser	ious Risks	Traffic/Heavy E	auinme	ent	Frequent		Hand Injuries	***	Г	ιv	Veather
6								141 16281		-	
8		Hazardous Atm	ospher	5	7		Lifting		L	」 ∨	Vorking at Heights
10		Utility Contact			+94	\Box	Biological Haz	zards			

Chemical Exposure

Slips, trips, falls

-

Personal Protective Equipment (PPE):

☐ Hard hat	Arm sleeves	Dust mask	Other special	equipment:				
Safety glasses	High visibility vest	Respirator	_					
Safety toed boots	☐ Rain gear	Cartridges/filters:	De □					
Ear plugs (as needed)	Rubber boots	H ₂ S monitor Bump test	□					
E Face shield	SCBA	FRCs/Nomex						
☐ Fall protection	Snake chaps	 □ Tyvek [®]						
Gloves (as needed)	Sunscreen (as needed)	Insect repellant *Do not apply DEET to FF						
			KUS					
Before Beginning Work:								
Sign in and out of process unit] N/A		d "dirty up" if necessary					
HASP reviewed & acknowledged		Weather forecast: Wind Direction:	Hot Cold Incle	ment				
Locate the nearest evacuation poir	•		vearing proper PPE					
Identify the nearest fire extinguisher first aid kit, and Material Safety Date		Perform a "self che	eck" on each personal H_2	S monitor				
Identify CPR/AED/first aid certified	, ,	Perform a Work-Si	te Self Assessment (WS	SA)				
If lone worker, implement lone work	ker procedures 🔲 N/A		bard emergency flyer for the bard emergency flyer for the bard of					
Identify SSE, visitor(s), or guest(s)	□ N/A	Barricade work zor						
Determine and acquire necessary		Review WorkCare	Review WorkCare Injury Accident Program card					
Permit required:	· _	PPE Action Levels	PPE Action Levels (PID: 10ppm)					
Safe Vehicle Use:								
Pre-inspection complete	Mileage sheet fille	☐ Mileage sheet filled out						
Seat belt	No cell phones us	ed while driving	Spotter used (if available)	able)				
Follow all speed and traffic rules	Parked in a safe lo	ocation	First move forward, backed in					
Emergency brake used	Orange cone used	ł	Load secured in vehicle					
Keys left in vehicle	Chock tires (if nee	eded)	□ 3D-Driving (every 2 years)					
Trailer Safety Inspection form	Other:		Other:					
Site-Specific Comments:								
Positive Reinforcement (R+):								
Signatures:								
Meeting Conducted By:	(desi	gnated project on-site sa	afety responder) Co	ompany:				
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.								
5.								
6.								
7.								

8.

🗌 Yes 🗌 No

🗌 Yes 🗌 No

JOURNEY MANAGEMENT PLAN



Date:	Project Number:		Driver:		
Destination:			Driver Cell Number:		
Departure Time:		A	Anticipated Arrival Time:		
Total Hours (not to exceed 1	6 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 doe	es not involve	driving?				🗌 Yes	🗌 No
If yes, by what means:							
Is someone else already going	g to the same	destination?				🗌 Yes	🗌 No
Do I have a map to my destina	ation?					🗌 Yes	🗌 No
Has the proper vehicle been s	elected?					🗌 Yes	🗌 No
Is the vehicle equipped with e	mergency sup	plies?				🗌 Yes	🗌 No
Do I have current driver trainin	ng for this trip?	?				🗌 Yes	🗌 No
Am I well rested and alert for t	he journey?					🗌 Yes	🗌 No
Do I have effective means of c	communication	ns during my jo	ourney?			🗌 Yes	🗌 No
Has a pre-trip vehicle inspection	on been comp	pleted and docu	umented?			🗌 Yes	🗌 No
Have road condition reports be	een reviewed	prior to the jou	irney?			🗌 Yes	🗌 No
Weather:	🗌 Dry	U Windy	🗌 Rain	Snow	🗌 lcy	🗌 Fog	Dust
Road Conditions:	🗌 Dirt Roa	d 🗌 Cor	nstruction	Paved	Road	Mixed Co	nditions
Night Driving:	🗌 Yes	🗌 No		Is it essential?	🗌 Yes	🗌 No	
Vehicle:	Vehicle:						
lake*: Model*: Year*: Color*:							
VIN* or Fleet Number:				License Pla	te State/Nu	mber*:	
Condition:] Satisfactory						
Vehicle Inspection Form Completed?							
Vehicle preventive maintenan	ce 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.

Journey Management Plan

For Overnight Sta	ys Hotel Name:	Telephone:				
	City:	State:				
Route Planned	(Auto route, train information, and/or flight information):	Map Attached Separately				
Unconventional T	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 App	roval:	Date:				
Employee site arriv	al: Date:	Time:				
Employee site depa	arture: Date:	Time:				
Employee home ar	rival: Date:	Time:				