



May 12, 2021

Mr. Pete Campbell  
Environmental Program Specialist  
Alaska Department of Environmental Conservation  
43335 Kalifornsky Beach Road, Suite 11  
Soldotna, AK 99669

RE: 2021 MW-33 Decommissioning Work Plan  
Kenai Pipeline Company  
File No. 2323.38.014

Dear Mr. Campbell:

On behalf of Kenai Pipeline Company (KPL), Trihydro is submitting this work plan for the 2021 well decommissioning activities at the KPL site located at 54741 Tesoro Road, Kenai, Alaska (Figure 1). This work plan is intended to supplement the recommendations provided in the *Kenai Pipeline Company MW-33 Decommissioning Activities Letter* (Tesoro 2021) submitted to the Alaska Department of Environmental Conservation (ADEC) on May 11, 2021 for decommissioning of well MW-33 (Figure 2).

Monitoring well MW-33 was installed in 1992 and was last sampled in 1993. The monitoring well was installed in above ground steel surface casing and monitoring well completion logs are included as Attachment 3. This well is in the way of a planned infrastructure improvement and scheduled for decommissioning.

### **Monitoring Well Decommissioning**

The monitoring well will be decommissioned as outlined in the *Kenai Pipeline Company MW-33 Decommissioning Activities Letter* (Tesoro 2021) in accordance with the ADEC Monitoring Well Guidance (ADEC 2013). Decommissioning procedures for are summarized as follows:

- Notify dig alert and KPL of proposed well decommissioning activities.
- Remove cement surface pad and protective steel casing.
- Using a steel drill rod/ steel pipe, penetrate through the bottom of the well screen allowing the well casing to be used as a tremie pipe as it is pulled from the ground.
- Using the well casing as a tremie pipe, add bentonite grout into the well to approximately the groundwater interface.
- Continuously remove the casing and periodically refill the casing with grout to fill void space as needed.



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- After the casing is removed, fill the remaining borehole annulus with bentonite chips to two feet below ground surface and add gravel/clean fill level to ground surface.
- Repair surrounding surface by restoring the gravel to match the surrounding surface.

Well decommissioning procedures will be recorded in the KPL 2021 Groundwater Monitoring Report and submitted to ADEC.

### **Waste Management**

The PVC well casing/screens, steel monument boxes, and cement surface pads shall be disposed or recycled as municipal waste.

### **References**

Alaska Department of Environmental Conservation (ADEC). 2013. *Monitoring Well Guidance*. September.

Tesoro. 2021. *Kenai Pipeline Company MW-33 Decommissioning Activities Letter*. Tesoro Alaska Company, LLC, Kenai Pipeline Company. May.

### **Schedule**

The proposed schedule for the well decommissioning activities is:

- June 2021 – Remove/decommission MW-33.
- March 2022 – Submit annual report.

If you have questions or comments, please contact me at (907) 262-2315 or [bforce@trihydro.com](mailto:bforce@trihydro.com).

Sincerely,  
Trihydro Corporation

Brianna Force  
Project Manager/Assistant Project Geologist

39B-006-008

Attachments

**ATTACHMENTS**

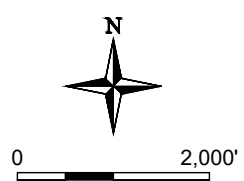
**SITE LOCATION MAP**


**WELL REMOVAL FIGURE**

**MW-33 BORING LOG AND WELL COMPLETION LOG**



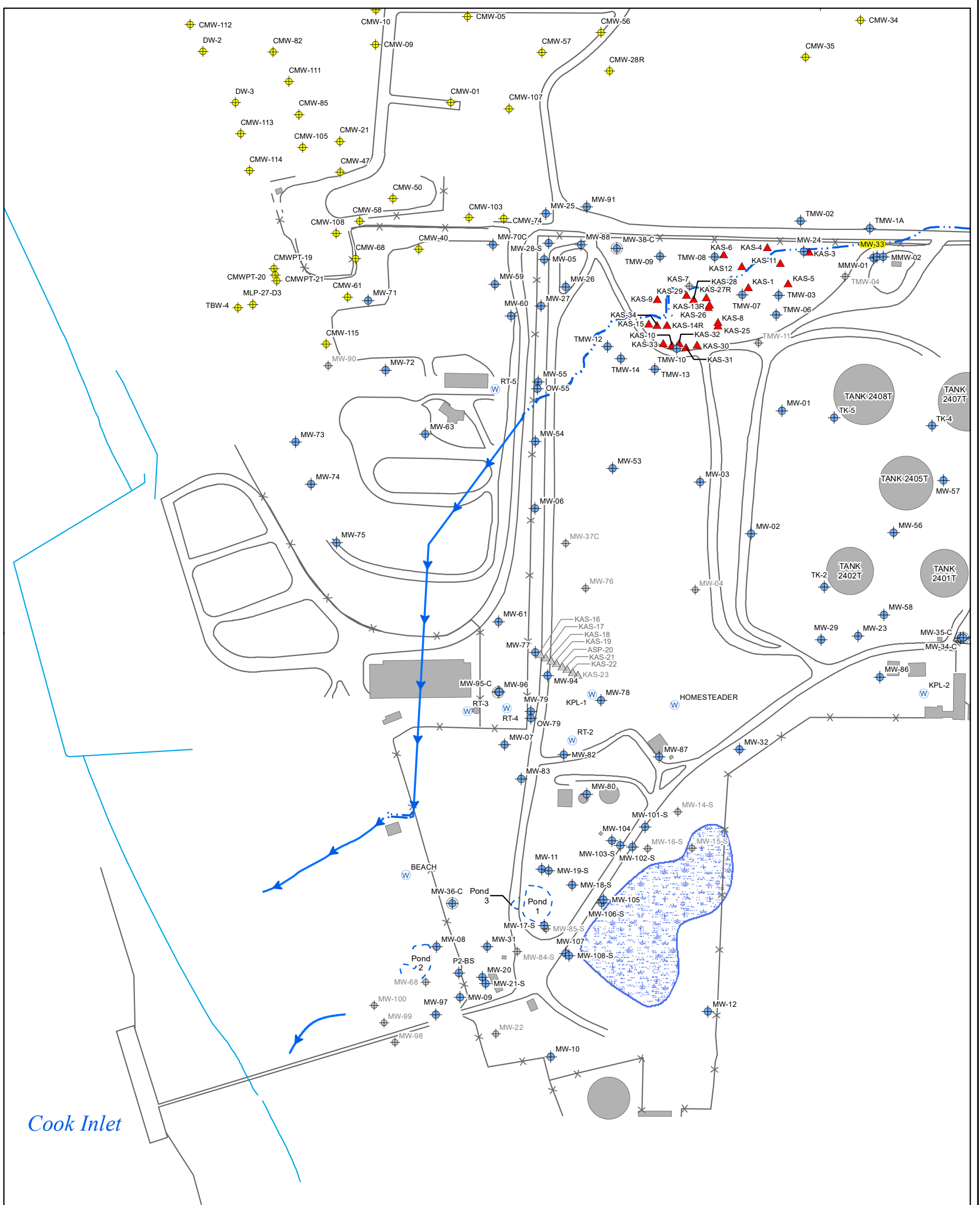
Image Cite: U.S. Geological Survey, Mosaic of 1:24,000-Scale Quadrangles, Kenai Peninsula Borough, Alaska, Publication: 1986



 1252 Commerce Drive Laramie, Wyoming 82070 www.trihydro.com (P) 307/745.7474 (F) 307/745.7729	<b>FIGURE 1</b> <b>SITE LOCATION MAP</b>	
	<b>ANNUAL GROUNDWATER REPORT</b> <b>TESORO ALASKA COMPANY</b> <b>KENAI PIPELINE, KENAI, ALASKA</b>	
Drawn By: JLP    Checked By: BF    Scale: 1" = 2,000'    Date: 1/15/2019    File: 39B-KPLAR_SITELOC-2018		

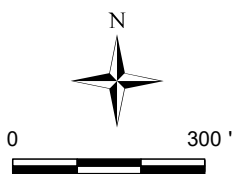
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M:\STO\TESORO\GIS\PROJECTS\KENAI PIPELINE\GW MONITORING\ANNUAL REPORTS\2020\KPL SITEPLAN\_FIG2.MXD



**EXPLANATION**

- MONITORING WELL AND DESIGNATION
- CONFINED AQUIFER MONITORING WELL AND DESIGNATION
- WATER SUPPLY WELL AND DESIGNATION
- AIR SPARGE WELL AND DESIGNATION
- ABANDONED OR DECOMMISSIONED WELL
- VAPOR EXTRACTION WELL OR VAPOR MONITORING POINT (INACTIVE)
- CHEVRON MONITORING WELL
- SHORELINE
- CREEK
- DITCH SHOWING FLOW DIRECTION
- FENCE
- BUILDING, TANK, OR OTHER STRUCTURE
- SWAMP AREA
- DETENTION POND



**NOTES:**

1. SITE FEATURES ARE APPROXIMATE.
2. WELL DESIGNATIONS THAT END IN -S DENOTE A PERCHED AQUIFER MONITORING WELL.
3. WELL DESIGNATIONS THAT END IN -C DENOTE A CONFINED AQUIFER MONITORING WELL.
4. THE VAPOR EXTRACTION SYSTEM AND VAPOR MONITORING POINTS ARE INACTIVE. WELL DESIGNATIONS FOR THOSE FEATURES ARE NOT SHOWN ON THIS FIGURE.

**FIGURE 2**

**SITE PLAN**

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

**ANNUAL GROUNDWATER REPORT  
TESORO ALASKA COMPANY  
KENAI PIPELINE, KENAI, ALASKA**

Drawn By: DH    Checked By: ML    Scale: 1" = 300'    Date: 3/24/21    File: KPL\_Siteplan\_Fig2.mxd

# ENSR CONSULTING AND ENGINEERING

BORING NUMBER: MW-33 B-EE

CLIENT: Chevron Production USA, Inc.  
 PROJECT NAME: Kenai Pipe Line Company  
 PROJECT LOCATION: Nikiski, Alaska  
 JOB NUMBER: 1420-039  
 LOGGED BY: B. Ford APPROVED BY: S. Wrenn  
 DRILLED BY: Hughes Drilling  
 METHOD: HSA/SS

BORING DEPTH (ft): 36.5  
 BORING DIAMETER (in): 10  
 WELL DEPTH (ft): 34  
 WELL DIAMETER (in): 2.0  
 REFERENCE ELEVATION (ft): 106.54  
 CASING STICKUP (ft): 0.5  
 FIELD PARTY: R. Brudie

SCREEN LENGTH (ft): 15  
 SCREEN TYPE: 2" Slotted PVC  
 SLOT SIZE (in): 0.020  
 FILTER PACK: #8-12 Silica Sand  
 DATE STARTED: 7-12-92  
 DATE COMPLETED: 7-12-92

DEPTH (feet)	RECOVERY	SAMP. NO.	SAMP. TYP.	BLOWS/15'	PIID (ppm)	SOIL CLASS	GRAPHIC LOG	DESCRIPTION AND REMARKS	WELL DIAGRAM
0 - 1	100%	S1	ss	12	> 10K	SP		Brown GRAVELLY SAND, medium fine sand, poorly sorted, gravel to 1 inch diameter, average size 1/4 inch diameter, subrounded to rounded, minor silt, moist to wet, no odor, no stain, medium dense	<p>2" SCH 40 PVC                  BENTONITE GROUT                  #8-12 SILICA SAND                  BENT.</p>
1 - 2	100%	S2	ss	8	> 10K	SP		Same as above	
2 - 3	100%	S3	ss	4	> 10K	SM		Brown SILTY SAND, medium fine sand, minor gravel to 1 inch diameter, average size 1/4 inch diameter, subrounded to rounded, poorly sorted, moist, no odor, no stain, loose	
3 - 4	100%	S4	ss	19	> 10K	SM		Same as above, roots, organics, wet	
4 - 5	100%	S5	ss	29	> 10K	SW		Gray GRAVELLY SAND, fine to medium sand, gravel to 1/2 inch diameter, average size 1/4 inch diameter, subrounded to well rounded; poorly sorted, trace fines, wet, slight sheen, odor, medium dense	
5 - 6	100%	S6	ss	15	> 10K	SW		Gray GRAVELLY SAND, fine to coarse sand, gravel to 1/2 inch diameter, average size 1/4 inch diameter, subrounded to rounded, poorly sorted, wet, medium dense	
6 - 7	100%					SP		Same as above, few cobbles, slight odor, medium dense	
7 - 8	100%					SP			

# ENSR CONSULTING AND ENGINEERING

BORING NUMBER: MW-33/E-85

CLIENT: Chevron Production USA, Inc.  
 PROJECT NAME: Kenai Pipe Line Company  
 PROJECT LOCATION: Nikiski, Alaska  
 JOB NUMBER: 1420-039  
 LOGGED BY: B. Ford APPROVED BY: S. Wrenn  
 DRILLED BY: Hughes Drilling  
 METHOD: HSA/SS

BORING DEPTH (ft): 36.5  
 BORING DIAMETER (in): 10  
 WELL DEPTH (ft): 34  
 WELL DIAMETER (in): 2.0  
 REFERENCE ELEVATION (ft): 108.54  
 CASING STICKUP (ft): 0.5  
 FIELD PARTY: R. Brudie  
 SCREEN LENGTH (ft): 15  
 SCREEN TYPE: 2" Slotted PVC  
 SLOT SIZE (in): 0.020  
 FILTER PACK: #8-12 Silica Sand  
 DATE STARTED: 7-12-92  
 DATE COMPLETED: 7-12-92

DEPTH (feet)	RECOVERY	SAMP. NO.	SAMP. TYP.	BLOWS/1.5'	PID (ppm)	SOIL CLASS	GRAPHIC LOG	DESCRIPTION AND REMARKS	WELL DIAGRAM
23.5 - 25.5		S7	ss	28	> 10K	SP		Gray GRAVELLY SAND, medium fine sand, gravel to 1/4 inch diameter, average size 1/4 inch diameter, subrounded to rounded, wet, slight sheen, strong odor  Gray SAND, fine, well sorted, slight sheen, strong odor	<p>2" SCH 40 PVC SCREEN</p> <p>#8-12 SILICA SAND</p> <p>SLOUGH</p>
25.5 - 28.5		S8	ss	30	> 10K			Gray GRAVELLY SAND, fine to medium fine sand, gravel to 1/4 inch diameter, average size 1/4 inch diameter, subrounded to well rounded, wet, slight sheen, strong odor, medium dense	
28.5 - 30.5		S9	ss	35	> 10K			Gray SAND, medium fine, wet, sheen, dense	
30.5 - 32.5						GP		Gray COBBLE Gray SANDY GRAVEL, gravel to 1/4 inch diameter, rounded to well rounded, fine to coarse sand	
32.5 - 35.5		S10	ss	7	700	SP		Gray SAND, fine, well sorted, with trace gravel	
								Total depth of boring = 36.5 feet	