



Jean Wong  
Project Manager

**Downstream EM**  
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September 17, 2018

Mr. Peter Campbell, Environmental Program Specialist  
Division of Spill Prevention and Response, Contaminated Sites Program  
Alaska Department of Environmental Conservation  
43335 Kalifornsky Beach Road, Suite 11  
Soldotna, AK 99669

RE: 2018 Southern Plume Well Installation and PFAS Sampling Work Plan  
ADEC Hazard ID 25935  
Chevron USA Refinery-Nikiski, Alaska

Dear Mr. Campbell:

This letter work plan describes the southern plume well installation and PFAS groundwater sampling work to be performed by Trihydro Corporation (Trihydro) on behalf of Chevron Environmental Management Company (Chevron) at the former Chevron Kenai Refinery (site) in Kenai, Alaska. This work plan was requested by ADEC on August 1, 2018 in the *ADEC Review Comments and Work Plan Requirement* Letter. The work outlined in this work plan will be conducted to define the southern limits of the groundwater plume and to determine the presence of any PFAS in the historical fire training site.

### **Southern Monitoring Well Installation**

Chevron plans to install a southern plume boundary monitoring well in the location indicated on Figure 1. The proposed monitoring well is located on Arctic Slope Regional Corporation (ASRC) property and will require Chevron to obtain written approval from ASRC prior to installation of the well. Chevron currently has an access agreement with ASRC for existing remedial activities such as operation of the air sparge system and accessing existing groundwater monitoring wells. However, this existing access agreement does not include the installation of new groundwater monitoring wells. Chevron anticipates the process of getting an access agreement in place with ASRC for the new groundwater monitoring well installation may take a significant portion of time. As such, Chevron plans to install the new well during the Summer of 2019, pending ASRC approval.

### **Historical Fire Training Site Groundwater Sampling**

The location of the historical fire training site is shown on Figure 2. Chevron currently does not have any existing groundwater monitoring wells in the historical Fire Training Site. However, groundwater monitoring wells CMW-17 and CMW-56 are located downgradient of the Fire Training Area. Chevron plans to sample CMW-17 and CMW-56 for PFAS compounds during the 2019 annual groundwater sampling event.

## Schedule

The proposed schedule for the groundwater monitoring well installation and groundwater sampling events is as follows:

- Summer 2019 – installation of the southern groundwater well location indicated in Figure 1. Installation of this well is pending approval from ASRC.
- August 2019 – Collect groundwater sample from the newly installed well as part of the annual groundwater sampling event. Additionally, collect groundwater samples for PFAS from representative monitoring wells indicated on Figure 2 in the historical fire training site.
- December 2019– Include the results for in the Annual Site Report.

If you have any questions regarding this submittal, please call me at (925) 842-5845 or Cassady Birdsong at (307) 755-4912.

Sincerely,

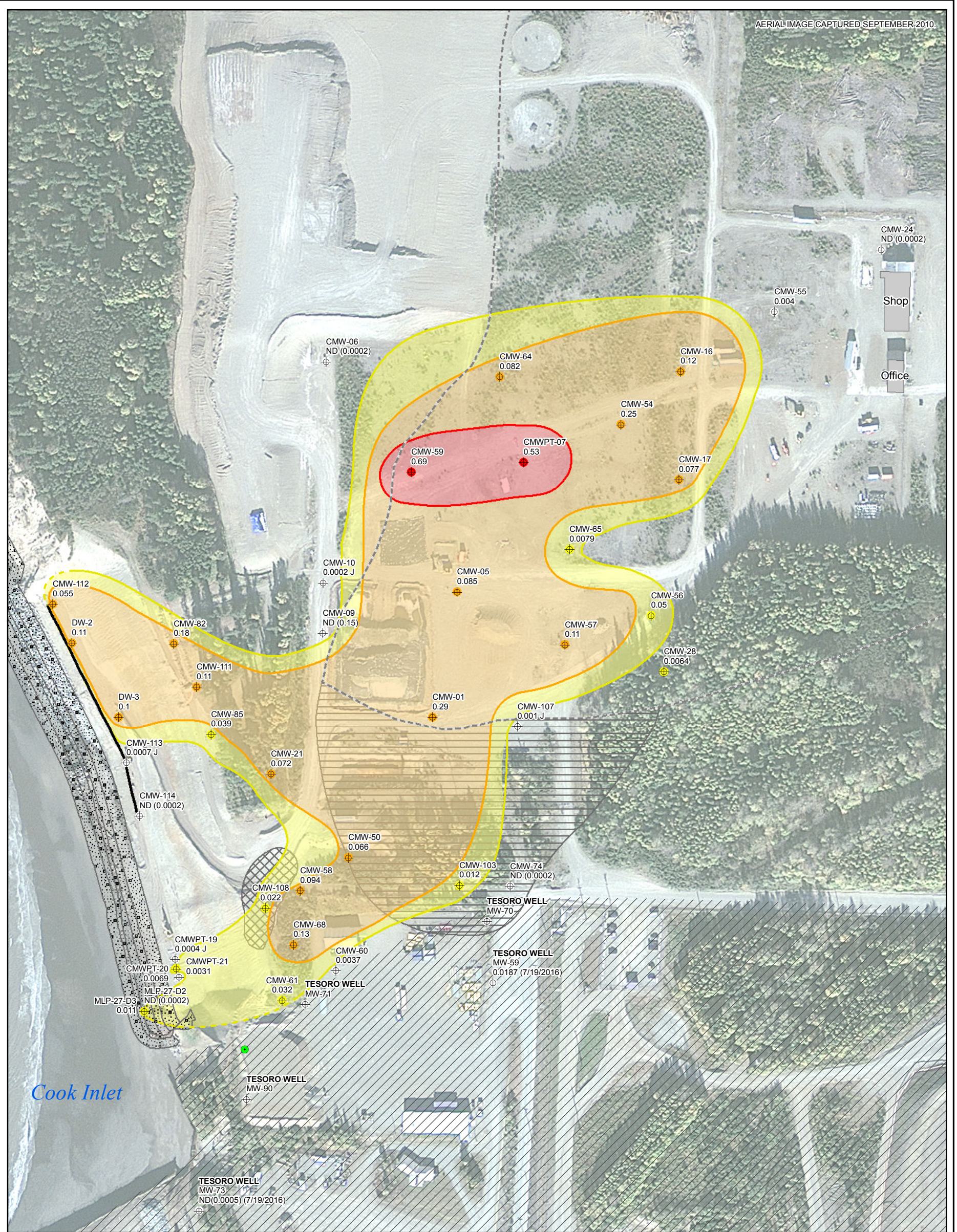
A handwritten signature in blue ink, appearing to read 'Jean Wong', with a long, sweeping horizontal stroke extending to the right.

Jean Wong  
Project Manager

154-047-009

Attachment

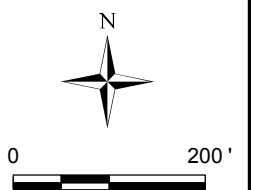
cc: Cassady Birdsong, Trihydro



**EXPLANATION**

- |     |   |   |  |
|-----|---|---|--|
| ●   | PROPOSED MONITORING WELL LOCATION             | ■ | BENZENE PLUME - 2017                   |
| ⊕   | BENZENE SAMPLE LOCATION                       | ▨ | 0.0046 - 0.05 (DASHED WHERE INFERRED)  |
| ⊕   | ND - 0.0046                                   | ▨ | 0.05 - 0.5                             |
| ⊕   | 0.0046 - 0.05                                 | ■ | 0.5+                                   |
| ⊕   | 0.05 - 0.5                                    | ▨ | HYDROGEOLOGIC BARRIER IN UPPER AQUIFER |
| ●   | 0.5+  | ▨ | EPHEMERALLY UNSATURATED                |
| --- | APPROXIMATE UPPER UNCONFINED AQUIFER BOUNDARY | ▨ | ROCK REVETMENT (COMPLETED 2010 - 2012) |
| --- | SLURRY WALL                                   |   |  |

GROUNDWATER MONITORING PROGRAM MANAGED BY TESORO ALASKA COMPANY (2016 GROUNDWATER MONITORING REPORT, KENAI PIPELINE COMPANY, TESORO ALASKA COMPANY, LLC)



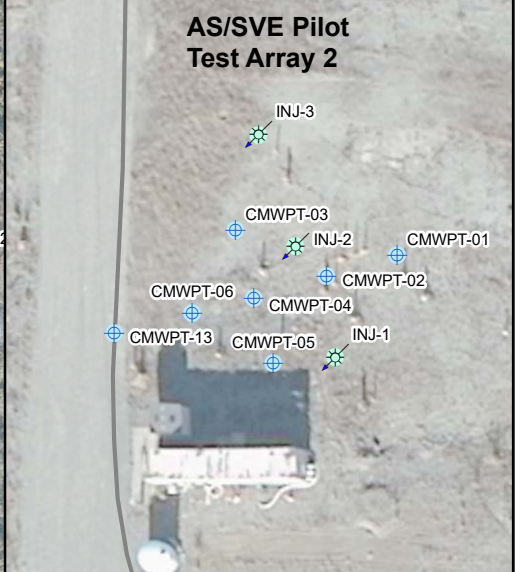
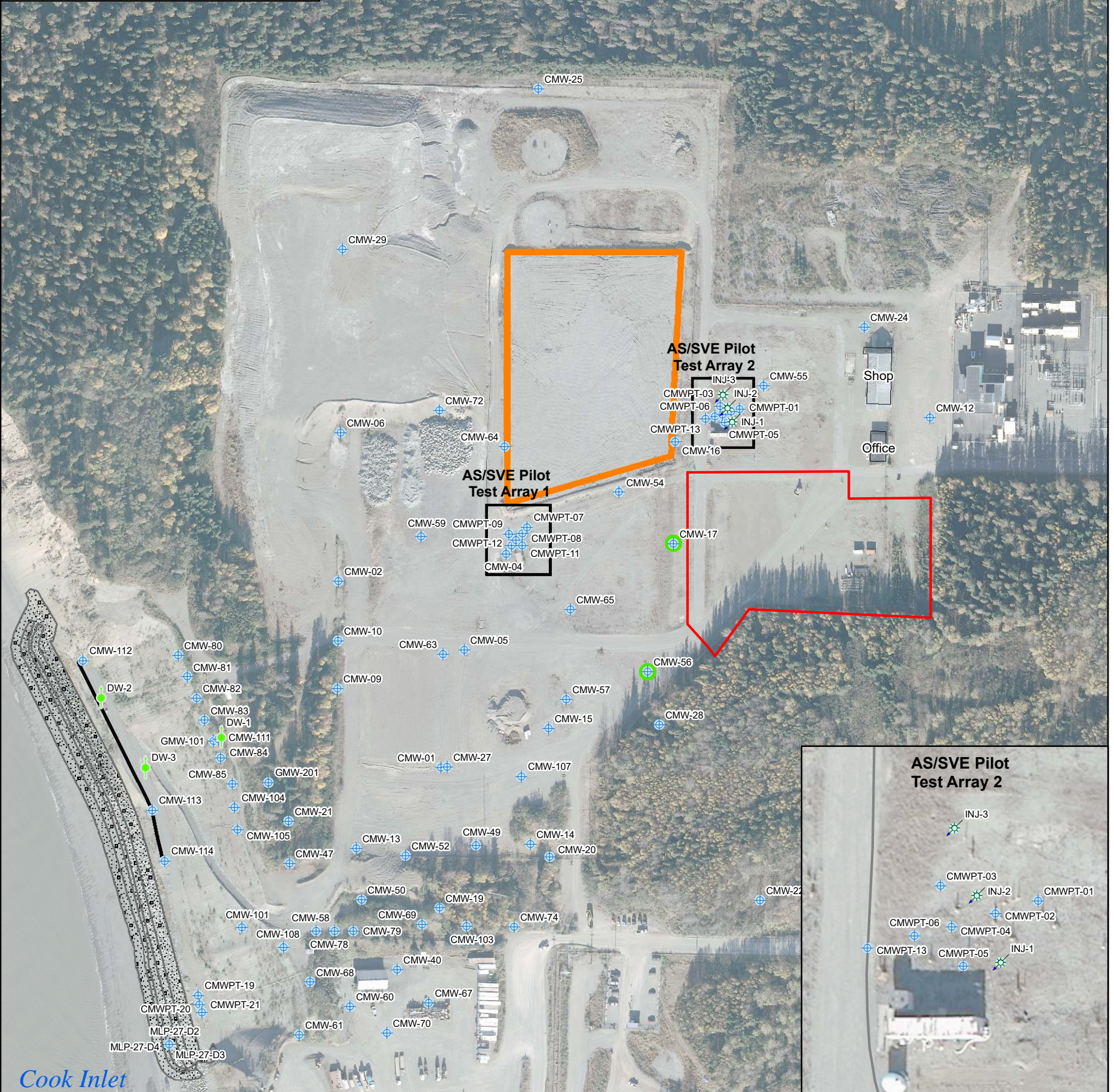
**FIGURE 1**

**PROPOSED MONITORING WELL LOCATION**

**CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY  
FORMER KENAI REFINERY  
NIKISKI, ALASKA**

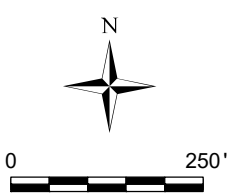
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Drawn By: DH | Checked By: SP | Scale: 1" = 200' | Date: 8/20/18 | File: Fig1\_Kenai\_ProposedMW.mxd



**EXPLANATION**

- MONITORING WELL
- EXTRACTION WELL
- INJECTION WELL
- MONITORING WELL TO BE SAMPLED FOR PFAS COMPOUNDS
- SLURRY WALL
- ROCK REVETMENT (COMPLETED 2010 - 2012)
- AS-BUILT LAND TREATMENT UNIT (4.1 ACRES)
- FORMER FIRE TRAINING AREA (APPROXIMATE LOCATION)



<p>1252 Commerce Drive Laramie, WY 82070 www.trihydro.com (P) 307/745.7474 (F) 307/745.7729</p>	<b>FIGURE 2</b>			
	<b>GROUNDWATER MONITORING WELLS TO BE SAMPLED FOR PFAS COMPOUNDS</b>			
<b>CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY FORMER KENAI REFINERY NIKISKI, ALASKA</b>				
Drawn By: DH	Checked By: SP	Scale: 1" = 250'	Date: 9/14/18	File: Fig2_Kenai_FireTrainingCenter.mxd