



Tesoro Alaska Company LLC

Kenai Refinery
54741 Tesoro Road
Kenai, AK 99611
Tel: 907-776-8191

July 10, 2023

Pete Campbell
Environmental Specialist.
Alaska Department of Environmental Conservation
43335 K-Beach Road, Suite 11
Soldotna, Alaska 99669

Submitted via email:
Peter.Campbell@alaska.gov

**Re: Treated Groundwater Injection Permit
Quarterly Report**

Dear Mr. Campbell:

Enclosed is the report for Tesoro's Kenai Refinery groundwater remediation system for April 1 through June 31, 2023. This data is to be submitted on a quarterly basis required by the Treated Groundwater Injection Plan.

The Treated Groundwater Injection Plan was revised and approved by the Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC), on October 31st 2017. As per the revised plan, Trihydro Corporation supplied a Qualified Environmental Professional (QEP) to collect and report the required data.

If you have any questions, please contact me at (907) 776-2090.

Sincerely,

Stephanie Plate, PE
Adv. Environmental Engineer

Enclosure (1)



APRIL, MAY, JUNE 2023
TREATED GROUNDWATER REPORT
PREPARED FOR TESORO ALASKA COMPANY, LLC

July 7, 2023
Project #: 39B-003-009

SUBMITTED BY: Tesoro Alaska Company, LLC
54741 Tesoro Road, Kenai, AK 99611

PREPARED BY: Trihydro Corporation
312 Tyee Street, Soldotna, AK 99669

ENGINEERING SOLUTIONS. ADVANCING BUSINESS.

CERTIFICATION STATEMENT
APRIL, MAY, JUNE 2023
TREATED GROUNDWATER REPORT
PREPARED FOR TESORO ALASKA COMPANY, LLC

I certify that the work presented in this report was performed by me or under my supervision. To the best of my knowledge, the data contained herein are true and accurate and the work was performed in accordance with professional standards.



Date: 7/07/2023

Brianna Force, Project Manager
Qualified Environmental Professional in accordance with 18 AAC 75.333



Introduction

This report summarizes the treated groundwater activities for the second quarter of 2023 (April, May, and June) at the Marathon Kenai Refinery as required by Treated Groundwater Injection Plan.

Marathon Kenai Refinery is permitted to inject treated water from two treatment systems including: 1) the PM Tray Strippers (inactive) injected to a trench injection system (PM), and 2) the Calgon Granular Activated Carbon (GAC) Treatment injected into a series of injection wells (Calgon).

Results Summary

The PM system is inactive; therefore, all groundwater continues to be diverted to the Calgon treatment system. Samples were collected monthly from the Calgon treatment system effluent and analyzed for the constituents listed on Table 1. The Calgon effluent samples were non-detect for the regulated constituents. The Calgon system flow limits and effluent concentrations were below ADEC criteria for the quarter. The latest carbon replacement occurred on September 27, 2022.

Table 1 summarizes flow and sample results for the Calgon treatment system.

TABLE 1. TREATED WATER FLOW AND EFFLUENT ANALYTICAL RESULTS
MARATHON KENAI REFINERY
APRIL, MAY, JUNE 2023

<u>Calgon Unit</u>		APRIL	MAY	JUNE
	Limit			
Total Flow (gpd)*	1,000,000	227,520	220,320	203,040
Sample Collection Date		4/3/2023	5/1/2023	6/2/2023
Effluent Limits (µg/L)				
Benzene	4.6	U (0.4)	U (0.4)	U (0.4)
Toluene	1,100	U (1.0)	U (1.0)	U (1.0)
Ethylbenzene	15	U (1.0)	U (1.0)	U (1.0)
Total Xylenes	190	U (3.0)	U (3.0)	U (3.0)
n-Butylbenzene	1,000	U (1.0)	U (1.0)	U (1.0)
sec-Butylbenzene	2,000	U (1.0)	U (1.0)	U (1.0)
tert-Butylbenzene	690	U (1.0)	U (1.0)	U (1.0)
Isopropylbenzene(cumene)	450	U (1.0)	U (1.0)	U (1.0)
Naphthalene	1.7	U (1.0)	U (1.0)	U (1.0)
1,2,4-Trimethylbenzene	15	U (1.0)	U (1.0)	U (1.0)
1,3,5-Trimethylbenzene	120	U (1.0)	U (1.0)	U (1.0)

µg/L - micrograms per liter

U - Non-Detectable at (detection limit)

gpd- gallons per day

*Flow at time of sample collection

Bolded results are above ADEC standards