



Tesoro Alaska Company LLC

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

January 15, 2024

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 October 1 through December 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,

Maya Lehl
Environmental Specialist

Enclosure (1)



OCTOBER, NOVEMBER, DECEMBER 2023

TREATED GROUNDWATER REPORT

PREPARED FOR TESORO ALASKA COMPANY, LLC

January 9, 2024

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

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PEOPLE YOU CAN TRUST.

CERTIFICATION STATEMENT
OCTOBER, NOVEMBER, DECEMBER 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: 1/09/2024

Brianna Force, P.G. Project Manager

Qualified Environmental Professional in accordance with 18 AAC 75.333



1.0 INTRODUCTION

This report summarizes the treated groundwater activities for the fourth quarter of 2023 (October, November, and December) 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 injected to a trench injection system (inactive), and 2) the Calgon Granular Activated Carbon (GAC) Treatment injected into a series of injection wells (Calgon).

1.1 RESULTS SUMMARY

The PM system is inactive; therefore, all pumped groundwater is 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 October 10, 2023.

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

TABLE

**TABLE 1. TREATED WATER FLOW AND EFFLUENT ANALYTICAL RESULTS
MARATHON KENAI REFINERY
OCTOBER, NOVEMBER, DECEMBER 2023**

<u>Calgon Unit</u>		OCTOBER	NOVEMBER	DECEMBER
	Limit			
Total Flow (gpd)*	1,000,000	264,960	296,640	289,440
Sample Collection Date		10/2/2023	11/6/2023	12/4/2023
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)
Napthalene	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