



Tesoro Alaska Company LLC

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

April 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 January 1 through March 31, 2024. 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) 776-4225.

Sincerely,

A handwritten signature in blue ink that reads 'Maya Lehl'.

Maya Lehl
Environmental Specialist

Enclosure (1)



**JANUARY, FEBRUARY, MARCH 2024
TREATED GROUNDWATER REPORT
PREPARED FOR TESORO ALASKA COMPANY, LLC**

April 1, 2024

Project #: TESAL-023-0004

SUBMITTED BY: Tesoro Alaska Company, LLC

54741 Tesoro Road, Kenai, AK 99611

PREPARED BY: Trihydro Corporation

312 Tyee Street, Soldotna, AK 99669

**SOLUTIONS YOU CAN COUNT ON.
PEOPLE YOU CAN TRUST.**

CERTIFICATION STATEMENT
JANUARY, FEBRUARY, MARCH 2024
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.

Brianna Force

Date: 4/01/2024

Brianna Force, P.G.

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



Table of Contents

1.0	INTRODUCTION.....	1-1
1.1	Results Summary	1-1
2.0	REFERENCES	2-1

List of Tables

1. Treated Water Flow and Effluent Analytical Results



1.0 INTRODUCTION

This report, required by the approved Treated Groundwater Injection Plan (Trihydro 2017), summarizes the treated groundwater activities for the first quarter of 2024 (January, February, and March) at the Marathon Kenai Refinery.

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

1.1 RESULTS SUMMARY

The PM system is currently inactive; therefore, extracted groundwater is diverted to the Calgon treatment system. Effluent samples were collected monthly from the Calgon treatment system and analyzed for the constituents listed on Table 1. The Calgon effluent samples were non-detect for the listed constituents. The first quarter 2024 Calgon system volume flow and effluent concentrations were below ADEC Permit criteria. The most recent GAC replacement occurred on October 10, 2023.

Table 1 summarizes the flow volume totals and analytical results for the Calgon treatment system.

2.0 REFERENCES

Trihydro. 2017. *Treated Groundwater Injection Plan*. Prepared for Tesoro Alaska Company.

TABLE

**TABLE 1. TREATED WATER FLOW AND EFFLUENT ANALYTICAL RESULTS
MARATHON KENAI REFINERY
JANUARY, FEBRUARY, MARCH 2024**

<u>Calgon Unit</u>		JANUARY	FEBRUARY	MARCH
	Permit Limits			
Total Flow (gpd)*	1,000,000	299,520	293,760	295,200
Sample Collection Date		1/3/2024	2/12/2024	3/6/2024
Effluent Parameters (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