

STATE OF ALASKA

SARAH PALIN, GOVERNOR

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DIVISION OF SPILL PREVENTION AND RESPONSE CONTAMINATED SITES PROGRAM

File: 2100.26.086

April 23, 2009

Ms. Anastasia Wilkinson
Tesoro Refining and Marketing Company
3450 South 344th Way, Suite 201
Auburn, WA 98001-5931

Re: Record of Decision (ROD), Tesoro Northstore #14
Corrective Action Complete Determination

Dear Ms. Wilkinson:

The Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC) has completed a review of the environmental records associated with the Tesoro Northstore #14 underground storage tank (UST) facility, located at 341 Boniface Parkway, Anchorage, Alaska. Based on the information provided to date it has been determined that the contaminant concentrations remaining on site do not pose an unacceptable risk to human health or the environment, and no further corrective action is currently required for this site.

This decision is based on our administrative record for the Tesoro Northstore #14 facility, which is located in the Soldotna office of the ADEC. This letter summarizes the decision process used to determine the environmental status of this site and provides a summary of the regulatory issues considered in this Corrective Action Complete determination.

Introduction

Site name and location:

Tesoro Northstore #14
341 Boniface Parkway, Anchorage, Alaska
Lot 1, Block 1, Higgins Subdivision

Name and mailing address of current contact and/or responsible person:

Ms. Anastasia Wilkinson
Tesoro Refining and Marketing Company
3450 South 344th Way, Suite 201
Auburn, WA 98001-5931

Land Owner:

Charles & Joy Higgins
174 Fireoved Drive
Anchorage, AK 99508-2536

ADEC ID Numbers:

File: 2100.26.086
Reckey: 1995210024201
Hazard ID: 23257
UST Facility ID: 1985

Regulatory authority under which the site has been cleaned up:

This project was reviewed under the applicable regulatory authority in 18 AAC 75 and 18 AAC 78.

Background

This property was developed into a convenience store with retail gasoline and diesel fuel sales business in 1988. Two 10,000-gallon gasoline tanks, one 5,000-gallon diesel tank, and associated piping & fuel dispensers were installed in May, 1988. The UST systems and convenience store are located at 341 Boniface Parkway near the Glenn Highway, in Anchorage, Alaska. This property and the adjacent properties to the north, south, and west are developed with commercial businesses and are served by municipal water and sewer service.

Site Characterization and Corrective Actions

The original UST systems were upgraded and assessed in August, 1995. Approximately 116 cubic yards of gasoline contaminated soil and 20 cubic yards of diesel contaminated soil were excavated and transported offsite for thermal treatment and final disposal. Soil contamination remained in three areas upon completion of contaminated soil excavation and site assessment work.

A Phase I Release Investigation was conducted in June, 1996 and resulted in the installation of three groundwater monitoring wells, G-1 through G-3. Benzene and gasoline range organics (GRO) were detected above the ADEC groundwater cleanup levels in monitoring wells G-2 and G-3, which were located adjacent to, and south of, the USTs.

A Phase II Release investigation was conducted in December 1999 and resulted in the installation of two additional monitoring wells. Subsequent release investigations increased the number of onsite groundwater monitoring wells to a total of nine. Historical groundwater quality monitoring has been performed since 1996, and the monitoring data indicates that any residual groundwater contamination is limited, and confined to this property. The downgradient monitoring wells, G-9 and G-10, in the Boniface Parkway road right-of-way have not been impacted by petroleum contamination.

Passive soil venting was initiated in three treatment wells in 1998. This passive soil venting system was converted to a mechanical soil venting and vapor extraction system and active soil treatment was initiated in June 1999.

Three USTs were excavated from the site in July 2005, and replaced with two new USTs. Petroleum contamination was detected in both field screening tests and by laboratory analyses. The primary contaminant of concern was benzene, but diesel range organics were also present at concentrations exceeding ADEC 'Migration to Groundwater' soil cleanup levels. A total of 1517 tons of petroleum contaminated soils was removed from the site and transported to Alaska Soil Recycling for final treatment and disposal. The existing soil vapor extraction treatment system was modified to optimize treatment of the petroleum contaminated soil remaining along the western side of the excavation, prior to installing the new USTs and backfilling the excavation.

The soil vapor extraction system removed moderate levels of contaminants after initial installation; however vapor recovery diminished over time. Recent testing indicates that vapor removal rates have decreased to the point that continued operation of the system is no longer warranted.

The water quality in the groundwater monitoring wells remaining at this site now meets ADEC groundwater cleanup levels.

Soil and groundwater samples collected at this site have been tested for: benzene, toluene, ethylbenzene, and xylene (BTEX), gasoline range organics (GRO), and diesel range organics (DRO).

Residual Contaminants of Concern

The following residual contaminants were detected in soil remaining onsite at the time of the 2005 UST replacement.

- Benzene
- DRO

Groundwater samples from the existing monitoring wells currently meet ADEC groundwater cleanup levels

Cleanup Levels

Based on the residual contaminants of concern, the pertinent soil cleanup levels for this site are established in 18 AAC 75.341, Method Two, Tables B1 and B2, Under 40 inch Zone, 'Migration to Groundwater'.

<u>Contaminant</u>	<u>Site Cleanup Level (mg/kg)</u>
• Benzene	0.025
• Diesel Range Organics	250

Pathway Evaluation

The exposure pathways for human health that were evaluated include the following: ingestion of, and direct contact with, soil and groundwater; indoor and outdoor inhalation of vapors; and direct contact with soil. Impacts to ecological receptors were also evaluated, but there was no complete pathway.

The outdoor inhalation, ingestion, and direct contact exposure risk is acceptable because contaminated soil removal operations reduced remaining benzene and DRO concentrations to below ingestion/inhalation soil cleanup levels. Further, the remaining soil contamination has been covered with clean backfill soils which were hauled in from off-site, preventing exposures at the ground surface. The indoor air exposure pathway risk is considered de minimus because of the separation distance from the residual soil contamination to existing structures, and due to the relatively low contaminant concentrations.

Groundwater contamination is no longer detected in the remaining groundwater monitoring wells. Any groundwater contamination that might remain at this site is limited in both areal extent, and concentration. The property itself is served by Municipal water, so the groundwater exposure pathway is considered incomplete.

The above exposure pathway analysis was supported by the most recent ADEC Exposure Tracking Model (ETM) ranking. The ETM results showed all pathways to be one of the following: *De Minimus Exposure*, or *Pathway Incomplete* for human health and *Pathway Incomplete* for ecological impacts.

ADEC Decision

The corrective actions to date have served to excavate and adequately remove contaminated soil from the site. Based on the information available, ADEC has determined no further assessment or corrective action is required. There is no longer an unacceptable risk to human health or the environment, and this site will be granted a Corrective Action Complete determination and will be designated as closed on the department's database.

Because the last soil sampling and analyses detected benzene and DRO contamination exceeding the 'migration to groundwater' soil cleanup levels, prior ADEC approval must be obtained for any excavation, transport, movement, remediation, and/or disposal of residual contaminated soil or groundwater from this site. This is consistent with the requirements of 18 AAC 78.274(b), and 18 AAC 78.600(h). It should also be noted that movement or use of potentially contaminated soil in a manner that results in a violation of 18 AAC 70 water quality standards is unlawful.

The ADEC Contaminated Sites Database will be updated to reflect the change in site status as detailed above, and will include a description of the soil contamination remaining at the site.

This determination is consistent with 18 AAC 78.276(f) and does not preclude ADEC from requiring additional assessment and/or corrective action if future information indicates that this site may pose an unacceptable risk to human health or the environment.

The groundwater monitoring wells and SVE treatment system may now be decommissioned according to the February 2009 ADEC *Monitoring Well Guidance* document, which is available on ADEC's web site. The current web link is: http://www.dec.state.ak.us/spar/csp/guidance/mw_guidance.pdf. This guidance requires ADEC approval be obtained for monitoring well decommissioning procedures, so Tesoro should submit

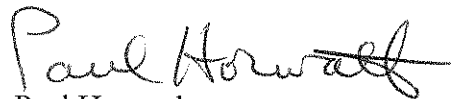
a brief work plan which identifies its proposed decommissioning procedures and obtain ADEC approval prior to implementation of those procedures.

Appeal

Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 -18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the Division Director, 410 Willoughby Avenue, Suite 303, Juneau, Alaska 99801, within 15 days after receiving the department's decision reviewable under this section. Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Avenue, Suite 303, Juneau, Alaska 99801, within 30 days after the date of issuance of this letter, or within 30 days after the department issues a final decision under 18 AAC 15.185. If a hearing is not requested within 30 days, the right to appeal is waived.

If you have questions about this Corrective Action Complete determination, you may contact the ADEC project manager, Paul Horwath, at (907) 262-5210 Extension 250.

Sincerely,



Paul Horwath
Environmental Engineer

C: Michael Zidek, MWH, Anchorage

Charles & Joy Higgins
174 Fireoved Drive
Anchorage, AK 99508-2536

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