

STATE OF ALASKA

DEPT. OF ENVIRONMENTAL CONSERVATION DIVISION OF SPILL PREVENTION AND RESPONSE CONTAMINATED SITES PROGRAM

SEAN PARNELL, GOVERNOR

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File: # 2100.38.310

February 2, 2010

Elizabeth Page
Reiss Remediation LLC
12550 Trinity Boulevard
Euless, Texas 76040

Re: Decision Document; Flint Hills Resources Port of Anchorage Bulk
Fuel Terminal Groundwater Use Determination under 18 AAC 75.350

Dear Ms. Page:

The Alaska Department of Environmental Conservation, Contaminated Sites Program (ADEC) has completed a review of the request for a groundwater use determination under 18 AAC 75.350 included as Appendix A in the *Final Risk Assessment Report* submitted to ADEC in August 2009 for the Flint Hills Resources Bulk Fuel Terminal at the Port of Anchorage. This Decision Document presents ADEC's determination that the shallow aquifer in this area is non-potable based on aquifer characteristics and other evidence that the shallow groundwater is not suitable for use as drinking water. The specific items in support of this decision can be found in Appendix A of the *Final Risk Assessment*, which is available for review upon request at the offices of the ADEC in Anchorage, Alaska.

Site Name and Location

Flint Hills Port of Anchorage
1076 Ocean Dock Road
Anchorage, Alaska

Legal Description

Alaska Railroad Lease Properties LP-024, LP-003 and LP-005

ADEC Site Identifiers:

Hazard ID #473
CS file # 2100.38.310

Background

This site is located on property leased to Flint Hills Resources from the Alaska Railroad Corporation (ARRC). The site has been used for bulk petroleum storage and transfer since its construction in 1959 and was operated by various petroleum companies until approximately 2003, when Flint Hills took over the operation of the facility. Groundwater monitoring conducted at the facility since the 1980's has documented petroleum contamination in groundwater at several areas of the facility as a result of spills, leaks, and other releases. A risk

assessment conducted in 2009 found no human health risk above benchmark criteria, with the assumption that groundwater in the shallow aquifer would not be used as a drinking water source. The shallow aquifer in this area is defined as groundwater contained in soil above the Bootlegger Cove formation, a regionally significant deposit of clay that acts as a confining layer in most areas where it is found.

ADEC Decision

Based on the justification provided in Appendix A of the *Final Risk Assessment Report*, ADEC approves your request that the shallow aquifer at Flint Hills Resources Port of Anchorage Bulk Fuel Terminal be declared non-potable based on the following summary information:

1. The shallow groundwater in this area is not currently used for a public or private drinking water system, and is not in the zone of contribution or recharge area for a private or public water system.
2. The shallow groundwater in this area is not a reasonably expected future source of drinking water for this area due to the following which compromise the suitability of this groundwater for use as a drinking water resource: (a) a high concentration of total dissolved solids above USEPA Secondary Drinking Water Standards; (b) the potential for salt water intrusion from Cook Inlet to the shallow aquifer; and (c) petroleum contamination in the shallow aquifer from upgradient source areas. Furthermore, public drinking water is currently available via public utility by the Municipality of Anchorage.

This decision is applicable only to the shallow aquifer at the Flint Hills Resources lease property and within the boundary shown in Figure 1, and does not address the suitability of the deep aquifer for use as a drinking water resource.

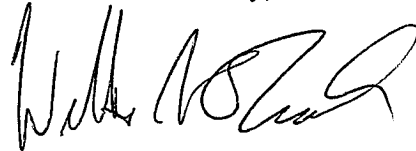
If you have questions about this decision, please contact ADEC Project Manager William O'Connell at (907) 269-3057.

Approved By,



Linda Nuechterlein
Environmental Manager

Recommended By,



William O'Connell
Environmental Program Specialist

CC: Jacques Gusmano, EPA
Susan Schrader, ARRC
Municipality of Anchorage Onsite Program
Heather Newman, ADEC Drinking Water Program
Brian LaPlaunt, Flint Hills Resources

Attachment A- 18 AAC 75.350 Groundwater Use Determination Area

