Haines-Fairbanks Pipeline Milepost 17.7
Contaminated Soil Removal and Groundwater Treatment Project

Beth Astley (USACE Project Manager)
Will Mangano (USACE Environmental Engineer)
David Munro (Tetra Tech Senior Ecologist)
Maggie Poyant (Tetra Tech Environmental Scientist)

Haines, Alaska
13 February 2020
Meeting Purpose

- Outline NEPA process
- Describe proposed project
- Address questions
- Provide methods for submitting comments
National Environmental Policy Act (NEPA)

Purpose of NEPA: To Ensure Opportunities for Public Involvement in the Evaluation of Environmental Impacts

Steps in NEPA Process
1. Identify and Describe Proposed Project
2. Define Purpose and Need
3. Develop Alternatives
4. Describe Affected Environment
5. Evaluate potential impacts to environmental and social resources
6. Present findings for public review
7. Address public concerns
8. Amend project if needed
9. Issue final NEPA document
Formerly Used Defense Site (FUDS) Program

- Established in mid-1980s
- Cleanup of previous military sites to protect human health and the environment and improve public safety
Project Location
Milepost 17.7 Historical Timeline

<table>
<thead>
<tr>
<th>Year</th>
<th>1968</th>
<th>1980s</th>
<th>2002</th>
<th>2006</th>
<th>2012-present</th>
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<td></td>
<td>Initial spill of 33,600 gallons of fuel. Immediate pipeline excavation and fuel burn-off.</td>
<td>FUDS program established to address eligible military sites for cleanup.</td>
<td>Haines-Fairbanks Pipeline is approved for eligibility under the FUDS program.</td>
<td>Site inspection at PMP 17.7 and initial sampling conducted.</td>
<td>PMP 17.7 project approval, Remedial investigation, Groundwater and soil sampling, Alternatives development</td>
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*Groundwater monitoring events have occurred annually since 2012, with the exception of the 2013 field season.*
2012 Field Effort
Soil and Groundwater Investigation
2014 Field Effort
Delineation and Permanent Well Installation
2016 Field Effort
Biogenic Sheen Observed
2019 Field Effort
Chilkat River Slough Follow-Up Sampling
Alternative 1: No Action Alternative

**Description**
- No action taken

**Components**
- Cease groundwater monitoring and decommission wells
Alternative 2: Institutional Controls and Monitored Natural Attenuation

Description

- Institutional controls to minimize human health exposure. Alternative would likely include monitoring of the groundwater to surface water pathway and maintenance of the existing well network and engineering controls.

Components

- Engineering Controls (e.g., signage)
- Administrative Controls (e.g., deed restrictions)
- Monitoring (e.g., groundwater and seep sampling)
Alternative 3: Source Excavation and Groundwater Monitoring

Components

- Contaminated soil excavation, transport, and disposal/treatment
- Limited pumping, transport, disposal/treatment of contaminated groundwater
- Groundwater and seep monitoring
Alternative 4: Source Excavation, In-situ Treatment, and Groundwater Monitoring

Components

- Contaminated soil excavation, transport, and disposal/treatment
- Limited pumping, transport, treatment/disposal of contaminated groundwater
- In-situ treatment techniques
- Groundwater and seep monitoring

*This is the preferred alternative.*
In-Situ Treatment

Components

- Granulated activated carbon injected into the groundwater
- Contaminants sorb to the carbon, preventing mobilization of contamination
- Promotes biodegradation when electron acceptors are available
- Can be combined with in-situ methods that increase oxygen availability in the groundwater to reduce contamination through biodegradation and oxidation
- Oxygen-releasing amendment mixed with backfill within groundwater zone
Milepost 17.7 Project Impact Area
Preferred Method for Soil Treatment: Landfarming

Tilling and Watering
Landfarming

Nutrient Monitoring and Sampling
Potential Landfarming Location
Landfarming
Frequently Asked Questions

- **Will it work?**
  USACE successfully landfarmed 30,000 tons of soil in Nome, Alaska, under shorter field season, with heavier fuel (diesel), and higher concentrations.

- **Will it contaminate the landfarming site?**
  Pre- and post-landfarm sampling to ensure landfarm soil does not contaminate the landfarm site.
  Soil liners utilized as a precaution for highly contaminated soil per ADEC Landfarming Guidance.

- **How will you know if/when the cleanup standards are met?**
  Periodic sampling to confirm effectiveness. If necessary, soil that does not meet ADEC cleanup standards would be disposed at an approved offsite facility.

- **What are the benefits of this treatment method?**
  Green alternative to soil remediation.
  Economic benefits to the city of Haines and less trucking through town.
  Cost savings of up to 50% or more as compared to offsite disposal or onsite thermal treatment.
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How to Comment

- Request a printed copy from the USACE by emailing POA-FUDS@usace.army.mil
- Review a printed copy locally at the Haines Public Library.
- Fill out a comment card tonight and submit in person.
- Mail written comments to the following address:
  ATTN: CEPOA-PM-ESP-FUDS (Astley), PO Box 6898, JBER, AK 99506
- Written comments can also be e-mailed to the following address:
  POA-FUDS@usace.army.mil

All comments received by March 6, 2020 will be considered before USACE makes a final decision on alternative actions. A summary of responses to all substantive comments will enter the local Information Repository as an addendum to the final EA.
Contact Information

USACE Project Manager
Beth Astley
(907) 753-5782
Beth.N.Astley@usace.army.mil

Information Repository
Haines Library
111 3rd Avenue
Haines, Alaska 99827
(907) 766-6420