

Soil Treatment Technologies, LLC

On behalf of Soil Treatment Technologies (STT), we would like to thank everyone for their participation in this public process. STT looks forward to working with the residents of Nikiski to provide a safe and effective method for treatment of petroleum impacted soil in the Kenai Peninsula to service the aging oil field in the area.

STT understands the concerns put forth by the residents of Nikiski and strives to be as transparent as possible in our operations. We have been working to provide answers to people's questions through direct meetings, a voluntary town hall meeting in Nikiski, posting of information on our website, and providing our contact information for residents to contact us with any and all concerns.

STT is owned and operated by Nathan Oberlee, Elliot Wilson, Jody Dillon and Zack Kirk. Each owner is an Alaska Department of Environmental Conservation (ADEC) qualified environmental professional per (18AAC75) with years of experience investigating and remediating environmentally impacted sites throughout the state. The decades of experience with contaminant fate and transport, and remediation design, were poured into the design of this facility to ensure the safety of the Nikiski residents and the environment (air, soil and water). STT's plan ensures that the regulations put forth by ADEC and the United State Environmental Protection Agency to protect human health and the environment are met or exceeded in the planning and permitting of this facility. Through our experience cleaning up hundreds of sites throughout the state, we understand the results of irresponsible management of waste streams and have designed this plant with redundancies to ensure impact to people and the environment does not occur.

The soil containment facility at the site was designed to ensure underlying soil and groundwater are not impacted at the site. Soil will be transported to the facility in covered trucks to mitigate dust generation along the roadways. Note: ADEC approval is required for any soil that is transported to and treated at our facility. In accordance with State regulations, the facility will not accept any hazardous waste.

The trucks will be offloaded in a covered containment area onto a petroleum resistant, asphalt concrete pad. The covered containment will prevent water infiltration to the impacted soil from rain and snow-melt. Additionally, the covered containment area will mitigate dust generation in the area. The asphalt pad in the containment is sloped towards a central sump to collect any water runoff. Collected water will be treated through a granular activated carbon water treatment system, sampled and analyzed by an ADEC approved laboratory. The laboratory reports will be submitted to ADEC for verification that the water is not impacted.

The treated soil will be placed into steel containments for sampling by ADEC-approved environmental consultants to confirm that it is free of contaminants. The containments were constructed with welded berms and catchments for the containment and treatment of any rain runoff. When not in use, the containments will be covered to prevent management of rain and snowmelt. The laboratory sample results will be sent to ADEC to confirm each pile meets the most stringent migration to groundwater cleanup levels prior to moving the remediated soil off the containment. Once remediated the clean soil will be available for beneficial reuse.

To ensure the air quality is safe for residents in the area, STT selected a treatment plant with specialized engineering controls that will enable the elimination of nearly all smoke and vapor emissions. The treatment plant contains a baghouse collection and filtration system with a 99.98% effectiveness at removing particulate matter (i.e. smoke) from the exhaust air. The remaining vapors will then be treated through a thermal oxidation unit with a rated volatile organic compounds (VOCs) destruction efficiency of 99%. In accordance with ADEC requirements, the baghouse and oxidizer will be in operation at all times during plant operation.

We look forward to working with the people of Nikiski in the operation of this facility. In addition to being a constant source of future employment for the community, we also endeavor to play a major role in supporting the cleanup and restoration of various contaminant impacted sites throughout Nikiski and the greater borough area. We plan to operate this facility with transparency and integrity to ensure the safety of the residents and the protection of the environment.