Outline for today

- Objective
- Introduction to ADEC
- Ownership and involved parties
- History
- Goals
- Recent project work
- Summer 2019 work
- What is next?
- Question and answer session
Objective for this meeting

- Provide information to the community of Kotzebue about the Former Kotzebue Hospital-School Pipeline Release contaminated site

- Listen and learn from community members
About Erin!

- Born and raised in Fairbanks Alaska. Received a BS in chemistry from Western Washington University in 2009, received a MS in environmental chemistry from UAF in 2014.

- I have been with ADEC contaminated sites program since 2016. I have been the project manager for Kotzebue since fall 2017.

- I love riding my bicycle, my dog Watson, and spending time with family and friends.
About Natalie!

- Born and raised in Fairbanks and Anchorage, Alaska. Received an Associate of Arts in General Education and a Bachelor of Arts in English from the University of Alaska Anchorage.

- Former local TV news reporter. Been with ADEC Contaminated Sites Program since 2018, as the public involvement specialist.

- I love spending time with my husband Eric, my cats Dharma and Sushi, family and friends. I also love exploring and being creative.
Introduction to ADEC

- Alaska Department of Environmental Conservation (ADEC)
  - Division of Spill Prevention and Response
    - Contaminated Sites Program

Contaminated sites program protects human health and the environment by managing the cleanup of contaminated soil and groundwater in Alaska.
SITE HISTORY
1945 Hospital
1945 School
*Photos purchased from Quantum Spatial
Site Map from 2015

*courtesy WHPacific (2015 Report)
Current Aerial Photo

*Courtesy of Bing Images*
### Current Ownership

<table>
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<tr>
<th>Parcel</th>
<th>Owner Name</th>
<th>Year Acquired</th>
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<tr>
<td>Tract 4a</td>
<td>NWAB</td>
<td>1985*</td>
</tr>
<tr>
<td>Lot 3</td>
<td>IHS</td>
<td>1963</td>
</tr>
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<td>Lot 4</td>
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<td>1963</td>
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<tr>
<td>Lot 5</td>
<td>KIC</td>
<td>1989</td>
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Other parcels between the school and Kotzebue sound that are not part of the original property may be contaminated.
Working Group

- Bureau of Indian Affairs (BIA)
- Indian Health Service (IHS)
- Northwest Arctic Borough School District (NWABSD)
- Northwest Arctic Borough (NWAB)
- Alaska Department of Education (ADEED)
- Kikiktagruk Inupiat Corporation (KIC)
- City of Kotzebue
- Maniilaq Association
- Department of Environmental Conservation (ADEC)
1950s: Kotzebue residents recall release from bulk tank facility. Location of bulk facility is unknown.

1960s: fuel line ruptures and releases fuel

1962: fire in hospital facility

1970s: fuel in school basement was reported to the local fire marshal
Site History

- 1970-1980: residents collect fuel from their private wells, ditches, etc. for heating
- 1980: school recovers 100,000 gallons of fuel from basement
- 1980: ADEC is notified of fuel coming into the school basement
- 1980-1984: ADEC initiates investigation of site and further recovery of fuel
1984: ADEC observes fuel on the beach and ocean in Kotzebue sound near Front Street
1985: fuel pipeline was abandoned in place
1985: NWABSD requests and receives funding from legislature to fill/pave school basement
1988: beach barrier installed to prevent migration of fuel onto beach and into the ocean
1989: ADEC contracted for an environmental site assessment. They inventoried tanks and pipes on site, and collected soil and water samples.

2008: Local residents observed a sheen on Kotzebue sound.

2008-2010: ADEC hired a contractor to collect samples to investigate contamination in the beach, ocean, and soil.
2008-2010: ADEC identifies responsible parties

- Responsible parties are BIA, IHS, DEED, NWAB, NWASD, KIC

2010 Alaska Dept. of Transportation installs a seawall because of erosion problem. This is done separately from the contaminated site.
RECENT SITE WORK
2014 Phase One investigation by Indian Health Service

- Interviews with local residents and visual observations
- Lead based paint testing
- Locating old groundwater wells and fuel collection trench
2014/2015 Site Investigation by Indian Health Service

- test pits and borings for soil sampling
- groundwater monitoring wells
- measured vapor in soil

*courtesy WHPacific (2015 Report)
1. Indoor air sampling
2. Sub-slab air sampling
3. Outdoor air sample

* Courtesy Shannon and Wilson (2018 Report)
# Winter 2019 tank and pipeline inventory

## Table 2: Inventory of underground storage tanks

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Summary of history

- Property was owned and operated by IHS and BIA originally
- Property has since been operated by DEED, KIC, NWAB, NWABSD
- Leaks from underground pipelines and tanks
- History of on and off cleanup by various parties
- No complete investigation and cleanup to date
Goals for site

1. Determine the extent of fuel contamination around the former hospital-school site
2. Cleanup any contamination that poses a risk to human health and the environment
3. Communicate with Kotzebue during the process to ensure the needs of the community are met
2019 SITE WORK
Scheduled work

- Remove underground storage tank (UST) at Ferguson building
- Take contaminated soil to KIC landfarm out by the landfill
- Sample groundwater
*Courtesy Tanana Commercial Company (2018 work plan)*
Requested work

- October 2019 vapor study at the elementary school
- Complete the tank and pipeline inventory
What happens after 2019 site work?

- Written report will be created for the summer 2019 work.
- Summer 2020 we plan to sample the groundwater again. Sample locations will be based on the summer 2019 information.
- ADEC plans to conduct an informal visit in winter of 2019.
- ADEC plans to host a public meeting spring 2020 to inform community on results from 2019 and the new work planned for 2020.
Discussion Group Tomorrow

Location: Nikaitchuat Ilisagviat

Time: 6pm

Purpose: Discussion group focused on latest cleanup efforts scheduled for the Former Hospital-School Pipeline Release contaminated site.

* Light refreshments provided.
* Open to the public.
Questions?

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1976
- DOI/BIA conveys Kotzebue Native School to State of Alaska, public school authorities via quitclaim deed
- ADOE issues a use permit to NWABSD

1980
- DOI uncertain of validity of deed; leases school to ADOE

1985
- ADOE assigns leasehold interest from to NWABSD for a 25 year term
- DOI determines 1976 deed is valid

1986
- ADOE conveys school to NWABSD via quitclaim deed (not recorded until 2004)
1907
- Land designated by federal gov’t. in US Survey 2083 for BIA Schools

1928
- First hospital built on site and transferred to BIA

1961
- New hospital built on site

1963
- New hospital transferred to DHHS/IHS

1989
- KIC agrees to land exchange (Lots 1-2, 5) with IHS to build a new hospital off-site (IHS retains liability subject to ADEC compliance order)

2009
- IHS prepares for property transfer (Lots 3-4) to Maniilaq
Contaminants of Concern

- DRO, GRO, RRO
- Volatile organic compounds
- Polyaromatic hydrocarbons
- BTEX
- Chlorinated solvents
- Lead

Petroleum release