

The background is a light blue gradient with several realistic water droplets of various sizes scattered across it. Some droplets are at the top, some at the bottom, and some on the sides, creating a clean, fresh aesthetic.

CONTAMINATED SITE INVESTIGATION AND CLEANUP

AASB SCHOOL DISTRICT MAINTENANCE EMPLOYEES CONFERENCE

OCTOBER 2018

OVERVIEW

- AS NOTED, ANY RELEASE OF OIL OR OTHER HAZARDOUS SUBSTANCES MUST BE REPORTED TO ADEC. THE MAJORITY OF SCHOOL SITES ARE RELATED TO RELEASES FROM TANK FARMS AND PIPING
- IF THE SPILL RESPONSE IS NOT SUFFICIENT TO ALLOW FOR CLOSURE, THE SPILL IS TRANSFERRED TO THE CONTAMINATED SITES PROGRAM FOR FOLLOW UP
- ADEC REGULATIONS IN 18 AAC 75 PROVIDE THE BASIS FOR THE REQUIRED INVESTIGATION AND CLEANUP OF SITES
- GENERALLY, THE RESPONSIBLE PARTY MUST DELINEATE THE EXTENT OF CONTAMINATION IN SOIL AND GROUNDWATER, EVALUATE RISK TO HUMAN HEALTH AND THE ENVIRONMENT AND CONDUCT ADDITIONAL CLEANUP AS NECESSARY

CONTAMINATED SITES DATABASE

- THE CS DATABASE IS THE STOREHOUSE OF STATEWIDE INFORMATION ON THE INVESTIGATION AND CLEANUP OF CONTAMINATED SITES
- THERE ARE CURRENTLY 83 SCHOOL SITES IN “ACTIVE” STATUS
- [HTTP://DEC.ALASKA.GOV/APPLICATIONS/SPAR/PUBLICMVC/CSP/SEARCH/](http://DEC.ALASKA.GOV/APPLICATIONS/SPAR/PUBLICMVC/CSP/SEARCH/)

CONTAMINATED SITES WEB MAP

ArcGIS Alaska DEC Contaminated Sites Modify Map Sign In

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Legend

Contaminated_Sites

- Contaminated Sites
- ▲ Active
- ▲ Cleanup Complete
- ▲ Cleanup Complete - Institutional Controls
- ▲ Informational

(2 of 2)

Contaminated Sites: Grayling Iditarod School former TF

HAZARD_ID	3371
Site_Name	Grayling Iditarod School former TF
File_Number	2416.38.001
Staff	Grant Lidren
Status	Active
Comment	Coordinates updated via Bing imagery on the ArcGIS online DEC CS web map on 4/26/17.
Longitude	-160.063066
Latitude	62.005402

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INVESTIGATION/CLEANUP PROCESS

- THE RESPONSIBLE PARTY HIRES A QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) TO DRAFT A WORK PLAN FOR REVIEW AND APPROVAL BY ADEC
- SOIL AND/OR WATER SAMPLES ARE COLLECTED
- INDOOR AIR CAN ALSO BE SAMPLED
- REPORT WRITTEN BY QEP
- ADDITIONAL INVESTIGATION, CLEANUP OR SITE CLOSURE AS APPROPRIATE

\$\$\$\$\$\$ HOW MUCH DOES THIS COST \$\$\$\$\$\$\$

- SITE INVESTIGATION CAN RUN ANYWHERE FROM \$5,000 TO \$100,000 BASED ON THE SCOPE OF WORK
- CURRENTLY, ADEC IS WORKING WITH THE DEPARTMENT OF EDUCATION ON FUNDING FOR THE INVESTIGATION AND/OR CLEANUP OF CONTAMINATION AT REAA SCHOOLS
- PROTECTION OF HUMAN HEALTH IS A TOP PRIORITY AND ADEC WILL WORK WITH SCHOOLS ON AN APPROACH THAT PROTECTS HUMAN HEALTH AND THE ENVIRONMENT WHILE RECOGNIZING THEIR FINANCIAL LIMITATIONS AND TAKING ADVANTAGE OF OPPORTUNITIES

OPPORTUNITIES

- CAPITAL PROJECTS PROVIDE A GREAT OPPORTUNITY FOR SITE CLEANUP
- COORDINATE WITH OTHER PROJECTS IN A COMMUNITY
- USE LOCAL RESOURCES (BACKHOES, QUALIFIED SAMPLERS)

SITE CLEANUP

- THE EXTENT OF CLEANUP NECESSARY WILL VARY FROM SITE TO SITE
- BUILDINGS, UTILITIES, AND OTHER INFRASTRUCTURE CAN COMPLICATE CLEANUP EFFORTS
- ADEC GENERALLY BASES CLEANUP ON EXPOSURE PATHWAYS
- GROUNDWATER CONTAMINATION TAKES LONGER TO CLEANUP AND MONITOR THAN SOIL CONTAMINATION

SOIL CLEANUP TECHNIQUES

- THERMAL REMEDIATION TYPICALLY TOO COSTLY OFF OF THE ROAD SYSTEM
- LANDFARMING HAS PROVEN TO BE AN EFFECTIVE TECHNIQUE AND THE MOST COMMON IN RURAL AREAS
- CONTAMINATED SOIL IS EXCAVATED AND TILLED THEN SAMPLED AFTER 1-2 SEASONS OF TREATMENT

LANDFARMING



LANDFARMING



LANDFARMING



LANDFARMING



KALTAG SCHOOL

- PROJECT STARTED IN 2014 AND INVOLVED EXCAVATION AND LANDFARMING OF A SIGNIFICANT QUANTITY OF SOIL AT TWO LOCATIONS



2014



2017



ARCTIC VILLAGE SCHOOL



NAPASKIAK



LANDFILL DISPOSAL

- CLASS I, II, AND III LANDFILLS HAVE DIFFERENT REQUIREMENTS
- DISPOSAL AT CLASS II AND III LANDFILLS REQUIRE COORDINATION WITH ADEC SOLID WASTE PROGRAM
- AT RURAL CLASS III LANDFILLS, MUST HAVE A BENEFICIAL USE (BERMS, COVER)
- MUST MEET 18 AAC 60.025 SOLID WASTE REGULATORY REQUIREMENTS

CONTACT

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