

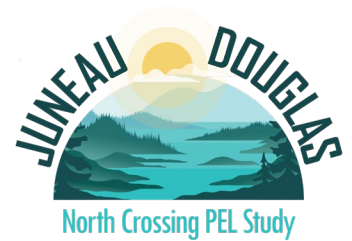
Technical Memorandum

Contaminated Sites

To: Marie Heidemann, Project Manager, Alaska Department of Transportation and Public Facilities
From: Kristen Hansen, Environmental Lead, DOWL
Date: February 22, 2023
Project: Juneau Douglas North Crossing PEL Study
Project Numbers: SFHWY00299/0003259

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PEL Study Description

The Alaska Department of Transportation and Public Facilities (DOT&PF) in cooperation with City and Borough of Juneau (CBJ) is studying a possible transportation corridor to connect Juneau with the north end of Douglas Island. A connection has been studied since the 1980s but has not progressed beyond identification and recommendation of preliminary alternative alignments. The previous studies highlighted several reasons for a north crossing:

- Congestion during peak periods on the existing Douglas Island Bridge
- Concerns about safety and emergency response in the event of a bridge closure
- The potential for residential, commercial, industrial, and port development at west Douglas Island

DOT&PF has chosen to use the Planning and Environmental Linkages (PEL) process to identify and evaluate a purpose and need (P&N) and recommend alternatives for connecting Juneau with the northern end of Douglas Island. The PEL process will provide opportunities for public input and involvement. The analyses conducted may be incorporated into a future National Environmental Policy Act (NEPA) process.

The study area boundary, where the proposed crossing may be located, is shown in Figure 1. The study area encompasses the area where prior studies and community outreach identified potential alternative crossing locations.

Purpose of the Technical Memorandum

This memorandum was prepared as an initial step in the development of the proposed alternatives for the Juneau Douglas North Crossing PEL Study (Project Numbers: SFHWY00299/0003259). It is intended to confirm data for identifying existing hazardous waste sites in the study area. This technical memorandum identifies hazardous waste sites¹ within the study area that could pose a risk of hazardous material exposure to a contractor or the public during construction activities. In addition to the hazardous waste sites map, this technical memorandum provides property ownership and agency classification of hazardous waste sites associated with each identified property.

The regulatory framework for the management of hazardous materials, hazardous waste, and contamination is complex. The following definitions and descriptions are provided to clarify terms used throughout this memorandum.

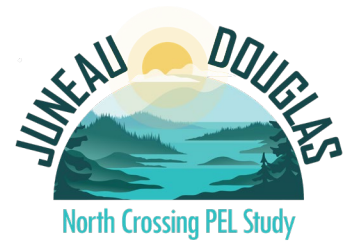
- Alaska Department of Environmental Conservation (ADEC) regulatory definitions:
 - Hazardous material is any material that, because of its quantity, concentration, or physical and chemical characteristics, poses a significant presence or potential hazard to human health and safety, or to the environment, if released into the workplace or the environment.
 - Hazardous waste is a hazardous material that can pose a substantial or potential hazard to human health or the environment when improperly managed.

¹ Generally, hazardous sites that pose a risk to human health or the environment are referred to as hazardous waste sites.

- Contaminated sites (ADEC database) consist of a location where hazardous substances, including petroleum products, have been improperly disposed of, spilled, or leaked from their containers. Solid waste includes solids, liquids, and gases and must be discarded to be considered waste.
- Regulated hazardous waste site is a location where a known hazard material has been generated, transported, treated, stored, or disposed of and is tracked in an Environmental Protection Agency (EPA) or an ADEC database.
- Non-regulated waste site is a location where the disposal of solids, liquids, and gases occur. These sites are not tracked through an EPA or ADEC database but may receive low quantities or unknown quantities of hazardous materials.



Figure 1: Study Area



Regulated Hazardous Waste Sites

Data Collection Methods

The hazardous waste site data assembled in this memorandum is derived primarily from the EPA and ADEC databases currently available online.

The EPA tracks sites or facilities that generate, transport, treat, store, or dispose of hazardous waste through the Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) programs. The RCRA is the public law that created the framework for the proper management of hazardous waste. The term RCRA is often used interchangeably to refer to the law, and the RCRA regulations and EPA policy and guidance. The RCRA program regulates the generation, transportation, treatment, storage, and disposal of hazardous waste. CERCLA, commonly known as Superfund, is a law that created a tax for the chemical and petroleum industries and provides broad Federal authority to respond directly to releases or threatened releases of hazardous substances that may endanger public health or the environment. The tax is used for cleaning up abandoned or uncontrolled hazardous waste sites.

ADEC monitors hazardous waste sites through the Contaminated Sites, Solid Waste Information Management System (SWIMS), and Solid Waste Sites databases.

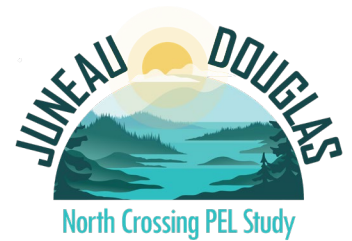
These databases and other data collection sources were reviewed to identify regulated and non-regulated hazardous waste sites in the study area that may pose a risk to a contractor, the public, or the environment during construction activities. Data summaries for Regulated Hazardous Waste Sites and Non-Regulated Waste Sites are provided below. Each summary provides a description of data collection sources data analysis methods, mapping methods and assumptions used to identify hazardous waste sites.

Databases for the EPA and the ADEC were queried to identify and download information on regulated hazardous waste sites in the study area. Databases included the following:

The EPA EnviroMapper² was accessed on March 18, 2022. It provides a single point of access to select EPA environmental databases. The website displays information pertaining to RCRA, superfund sites, and brownfield sites, which are defined as follows:

- RCRA regulates the production, transportation, storage, and disposal of hazardous waste and non-hazardous solid waste.
- Superfund/CERCLA sites include manufacturing facilities, processing plants, landfills and mining sites classified as posing the most serious public and environmental health risk.
- Brownfield sites are sites identified by communities for expansion, redevelopment, or reuse, but may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Brownfield program provides grants and technical assistance to communities to clean up hazardous waste sites.

² <https://enviro.epa.gov/enviro/em4ef.home>



ADEC's Contaminated Sites³, SWIMS⁴, and Solid Waste Sites⁵ databases were accessed on March 14, 2022. All of these databases provide information on hazardous waste sites, landfills, sewage lagoons, solid waste treatment and storage facilities. Each database addresses specific information as discussed below:

- Contaminated Sites database contains information on known hazardous waste sites which may pose a potential risk to human health and the environment.
- SWIMS database contains information on landfills, sewage lagoons, and solid waste treatment and storage facilities within the ADEC's Solid Waste Program. Within the SWIMS program, the Waste Erosion Assessment and Review Project inventoried Alaska's eroding landfills, sewage lagoons, dumps, and hazardous waste sites.
- Solid Waste Sites database combines information from the Contaminated Sites and the SWIMS databases. This database provides approximate boundaries of solid waste sites (i.e., landfills) based on ADEC Solid Waste Program records.

Analysis Methods

Data analysis was limited to a desktop review of available EPA and ADEC databases for sites and facilities within the study area. Regulated hazardous waste sites were identified using the data sources listed above and analyzed for their potential risks to human health or the environment during earth disturbing activities. The following provides a brief description of the information each database provided.

The EPA EnviroMapper provides a tracking number, facility type, and responsible party, for RCRA, superfund, or brownfield sites. The downloadable GIS data provides a status classification (i.e., active, closed) for the identified sites. RCRA, superfund, and brownfield site within the study area are shown on Figure 2 (attached).

The ADEC Contaminated Sites database provides a tracking number, responsible party, activities conducted on the site, type of contamination, and status classification (i.e., active, cleanup complete). Active and cleanup complete with institutional controls (IC) sites are included in Table 1 and Figure 2 (attached) and defined as follows:

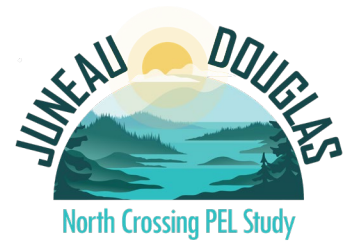
- Active sites are known sites that may pose a potential risk to human health and the environment, and cleanup has not been completed.
- IC sites⁶ are sites where cleanup (as determined by ADEC) has been completed to the extent practicable, but contamination remains above the established cleanup levels. Sites identified as IC usually require coordination with ADEC if construction is on or immediately adjacent to the site boundary as the site may pose a risk to human health or the environment.
- Cleanup complete sites are sites determined by ADEC to be suitable for residential land use and are not considered to pose a threat to human health or the environment.

³ <https://ADEC.alaska.gov/spar/csp/>

⁴ <https://ADEC.alaska.gov/applications/eh/swims/Default.aspx>

⁵ <https://www.arcgis.com/apps/mapviewer/index.html?webmap=c3b5562dcd204114a30a1619ae8f5cee>

⁶ <https://ADEC.alaska.gov/spar/csp/institutional-control-info/>



The ADEC SWIMS database provides a tracking number, facility type (i.e., landfill, sewage lagoon), and permit status (i.e., active, inactive, closed). Sites which are classified as active are included in Table 1 and Figure 2 (attached) and defined as follows:

- Active sites are facilities (i.e., landfill, monofill, medical waste treatment) with active operations and construction on or immediately adjacent to the site and may pose a risk to human health or the environment.

The ADEC Solid Waste Sites database provides similar information as the Contaminated Sites and SWIMS databases. However, it also provides boundaries for waste site extents.

Mapping Methods

Regulated hazardous material sites were mapped using data from sources discussed above. No field verification or assessment of locational reliability was performed. Aerial photography covering the study area was downloaded from ESRI World Imagery Service Layer⁷ to map sites.

- Data was downloaded from the data source websites including EPA's EnviroMapper, ADEC's contaminated sites, ADEC solid waste sites, and DOT&PF material sites, and City and Borough of Juneau parcel viewer, and was compiled into ArcGIS. For accuracy, downloaded data was stored in a spreadsheet, along with their GPS coordinates on Google Maps.
- Figure 2 displays regulated hazardous waste site locations based on data downloaded from EPA and ADEC.
- Table 1 identifies regulated hazardous waste sites within the study area, which may pose a risk of encountering hazardous materials during construction.

Assumptions

- EPA
 - The EPA gives sites a Standard Industrial Classification Code to sites that meet EPA's criteria for hazardous waste handling for reporting requirements. If a site does not have a Standard Industrial Classification Code, it is considered to not pose a risk to human health or the environment.⁸
 - Some RCRA sites within the study area have limited information pertaining to their classification and type of waste management, disposal, and storage. For continuity, the type of waste classification found in Table 1 is based off the type of business and the likelihood of petroleum or chemical storage and handling.

⁷ ESRI World Imagery Wayback: <https://livingatlas.arcgis.com/wayback/> (imagery dated 2019)

⁸ https://ordspub.epa.gov/ords/guideme_ext/f?p=guideme:gd::::gd:tsd_2_3

Non-regulated Hazardous Waste Sites

Data Collection Methods

The following databases were queried to identify and obtain information on non-regulated hazardous waste sites in the study area:

- The ADEC SWIMS database provides a tracking number, facility type (i.e., landfill, sewage lagoon), and permit status (i.e., active, inactive, closed). Sites which are classified as inactive are included in Table 1 (attached).
 - Inactive permits are facilities (i.e., landfill, monofill) no longer in operation, where the permit may have expired or been denied. Construction on or immediately adjacent to the site may pose a risk to human health or the environment.
- The DOT&PF Material Site inventory and assets database⁹ provides information on potential extraction and disposal sites managed by DOT&PF.
- Desktop Review (Other Sites) was conducted to search for information on non-regulated waste sites within the study area not contained in an agency database.
 - Online search for businesses classified as salvage and/or wrecking yards, towing and recovery yards, scrap metal, recycling, and gravel suppliers. Verbiage including sand and gravel, salvage yard, scrap metal, recycling, towing companies, and wreckage yards were used in Google and Google Maps search engines. Results were filtered to businesses located within the study area boundaries.
- The City and Borough of Juneau parcel viewer¹⁰ was used to provide aerial imagery within the study area (between 2011 and 2021) and information on parcel location, size, and property ownership.
 - City and Borough of Juneau aerial imagery (2020) was reviewed segment by segment (shown in Figure 2 [attached]) to identify parcels which function as salvage and wrecking yards, towing and recovery yards, scrap metal, recycling, and gravel suppliers.
 - Parcels in Table 1 were reviewed to determine property ownership and to identify a site name based on:
 - If a parcel is associated with a business, the parcel is identified by the business name.
 - If a parcel is not associated with a business, the parcel is identified by the parcel address.

⁹ <https://akdot.maps.arcgis.com/apps/webappviewer/index.html?id=9a3d7e78c00c4edc96f351cb37cc07d1>

¹⁰ http://epv.ci.juneau.ak.us/cbj_js_viewers/EPV/app/

Analysis Methods

Data analysis was limited to a desktop review of available databases and other reasonably available public records regarding past and current land uses, or indications of existing known or historic non-regulated hazardous waste conditions within the study area. Non-regulated hazardous waste sites were identified using the data sources listed above and analyzed for their potential risks to human health or the environment during earth disturbing activities. The following provides a brief description of the information each database provided.

The ADEC SWIMS database provides a tracking number, facility type (i.e., landfill, sewage lagoon), and permit status (i.e., active, closed, retired). Sites which are classified as closed, retired, or expired are included in Table 1 and Figure 2 (attached).

- Closed are typically landfills or monofills which no longer have an active permit and the landfill or sewage lagoon has been capped to minimize the risk to human health or the environment. However, if construction on or immediately adjacent to the site may pose a risk to human health or the environment.
- Retired are typically landfills or monofills which are no longer in operation and permit is not needed or has expired. Construction activities on or immediately adjacent to the site may pose a risk to human health or the environment.
- Removed are typically storage facilities or monofills which either the permit was denied or not required. For sites where a permit was denied, construction activities on or immediately adjacent to the site may pose a risk to human health or the environment.

DOT&PF Material Sites database provides a tracking number, status of site (i.e., active¹¹, inactive¹²), and location. Material sites are typically used for the extraction and export of inert materials¹³. Material sites may be used as a temporary disposal site of sand and gravel for DOT&PF projects. Therefore, these sites are not considered to pose a potential risk to human health or the environment and are not included in Table 1 or Figure 2 (attached).

Desktop Review (Other Sites) searched Google and Google Maps database for businesses that may store or dispose of solid waste. The search included a review of aerial imagery from the City and Borough of Juneau parcel viewer to identify businesses which use large outdoor areas to store solid waste or extraction of materials. Businesses identified during this search were classified as active, closed, or inactive.

- Active businesses are businesses where the City and Borough of Juneau parcel viewer, Google Maps, and Google identified the same business at the associated address. These businesses may be associated with production, transportation, storage, or disposal of solid waste. Construction on or near the immediately adjacent to the business may pose a risk to human health or the environment and are included in Table 1 and Figure 2 (attached).

¹¹ Active: sites currently used by DOT&PF or have the potential to be used by DOT&PF

¹² Inactive: sites no longer used by DOT&PF or DOT&PF no longer has an interest (i.e., materials no longer available)

¹³ Inert material are solid, motionless substances that are neither chemically nor biologically reactive.

- Closed businesses are businesses identified in database search where the City and Borough of Juneau parcel viewer, Google Maps, and Google identified the same property by a different business name. These businesses may be associated with production, transportation, storage, or disposal of solid waste. A closed business would have been identified in Google Maps (street view) with a different business name than the City and Borough of Juneau parcel viewer other Google sites, or the building is boarded up. Businesses identified as closed are not considered to pose a risk to human health or the environment and are not included in Table 1 and Figure 2 (attached).

Mapping Methods

Non-regulated hazardous material sites were mapped using data from sources discussed above. No field verification or assessment of locational reliability was performed. Aerial photos covering the study area were downloaded from ESRI World Imagery Service Layer¹⁴ to map sites.

- Data sources without spatially downloaded data (i.e., ADEC SWIMS) were manually entered into a spreadsheet to log their GPS coordinates and other information for visual representation in ArcGIS. Businesses (“other sites” found in Table 1) which may store or dispose of solid waste not associated within existing data collection sources were mapped according to their GPS coordinates on Google Maps.
- Figure 2 (attached) displays the location of identified non-regulated waste sites.
- Table 1 identifies non-regulated waste sites within the study area, which may pose a risk during construction of encountering hazardous materials.

Assumptions

- ADEC
 - ADEC’s contaminated sites database was last updated March 18, 2022.
- DOT&PF
 - Material sites typically are used for the extraction of materials or for temporary disposal of inert materials. Therefore, DOT&PF material sites are not included in Table 1 and Figure 2 (attached).
- Desktop Review (Other Sites)
 - Sand and gravel extraction sites typically are used for the extraction of materials or for temporary disposal of inert materials. Therefore, these sites are not included in Table 1 and Figure 2 (attached).
 - Businesses operating as automobile salvage and recovery yards are considered to potentially pose a risk to human health and the environment.

¹⁴ ESRI World Imagery Wayback: <https://livingatlas.arcgis.com/wayback/> (imagery dated 2019).

Summary

The database searches described above identified the following sites which may pose a risk to human health or the environment:

- EPA EnviroMapper identified 50 RCRA sites, no brownfield sites, and no superfund sites within the study area.
- ADEC databases identified 38 regulated contaminated sites (25 active, 13 institutional controls) containing petroleum, waste oil, and/or chemical waste, and one permitted solid waste holder (disposal facility).
- ADEC databases identified 43 regulated contaminated sites classified as cleanup complete. A site is classified as cleanup complete once the contamination has reached approved cleanup levels, or the possibility of human exposure is highly unlikely¹⁵.
- Other database searches for non-regulated waste sites identified 16 businesses associated with automobile salvage and recovery operations within the study area.

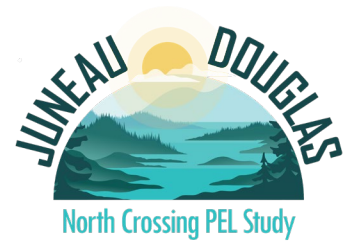
Table 1 provides a summary of the regulated hazardous waste sites and non-regulated waste sites within the study area including site identification number, which corresponds to the regulatory identification (ID) number for the EPA RCRA sites, the hazard ID number for the ADEC contaminated sites, the site ID number for ADEC's Solid Waste Information Management System permit, and the map generated ID number for non-regulated waste sites from the desktop review. Table 1 includes site name (typically the business located on the site), property owner and type(s) of hazardous waste associated with the site. Table 2 includes the regulated ADEC cleanup complete contaminated sites.

Figure 2 (attached) provides the location of regulated hazardous waste sites and non-regulated waste sites within the study area which may pose a risk of encountering hazardous materials during construction.

Table 1: Summary of Regulated Hazardous Waste Sites and Non-regulated Waste Sites

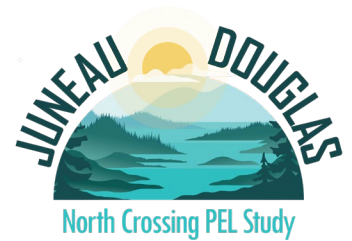
Site ID	Site Name	Property Owner	Type of Waste
Regulated Hazardous Waste Sites			
EPA RCRA Sites			
110003042421	ADEC Juneau Fire Training Center	City and Borough of Juneau	Petroleum
110070516254	AEL&P Industrial Blvd. Powerplant	Alaska Electric Light & Power	Chemical
110070516253	AEL&P Salmon Creek Powerplant	Alaska Electric Light & Power	Chemical
110003039809	Alaska Air National Guard AAOF Juneau	State of Alaska	Petroleum

¹⁵ http://www.akleg.gov/basis/get_documents.asp?session=29&docid=4084. (Accessed May 26, 2022).



Site ID	Site Name	Property Owner	Type of Waste
110003040441	Alaska Airlines Juneau	City and Borough of Juneau Airport	Petroleum
110000885882	Alaska DOT&PF 6860 Glacier Hwy	State of Alaska DOT&PF	Unknown
110007919002	Alaska Housing Cedar Park Ak	Coogan Alaska LLC	Petroleum
110001717660	Alaska Laundry Inc-Ak Laundry & Dry Clea ¹⁶	Neil MacKinnon DBA Alaska Laundry Inc	Chemical
110003041486	Alaska Striping & Painting Inc	R & L Leasing Inc	Chemical
110003037909	Channel Construction	Jordan Creek Office Condominium Owners Association Inc	Petroleum/Chemical
110003044900	Channel Flying	Channel Flying Inc	Unknown
110007921286	Delta Air Lines Juneau	City and Borough of Juneau Airport	Unknown
110003043830	Delta Western Juneau Wharf	State of Alaska Department of Education and Early Development	Unknown
110003041636	Doh Environmental	Joshua D and Kara L Lockhart	Chemical
110003040959	E & L Auto	Nancy Marie Maki	Petroleum
110022315813	Fix Auto Juneau	Joseph M Smith and Jean P Smith	Petroleum
110055437004	Frontier Storage	Frontier Storage LLC and Doug Trucano	Chemical
110003038533	Hals Body Shop	Karla A Tollefson-Allwine and Steven J Allwine	Petroleum
110036409491	Harborview Elementary School	City and Borough of Juneau	Unknown
110003037632	Inside Passage Marine Inc	William R Tonsgard Jr	Petroleum
110006852263	Juneau Empire	Southeastern Newspaper Corp	Unknown
110006852281	Juneau Intl	City and Borough of Juneau Airport	Petroleum/Chemical
110003041075	Love Bros	TKP Juneau LLC	Unknown

¹⁶ Intentional misspelling as shown in EPA database.



Site ID	Site Name	Property Owner	Type of Waste
110003371440	Mendenhall Auto Ctr	Karla A Tollefson-Allwine and Steven J Allwine	Petroleum
110064379603	Midnight Sun Oncology	Juneau Medical Office Building LLC	Unknown
110003039998	Mike Hatch Jeep	Compton-Munro Automotive LLC	Petroleum
110003043448	N C Machinery Co Juneau	Smith-Hall Inc	Petroleum
110020489826	NorthStar Helicopter	City and Borough of Juneau Airport and R & L Leasing	Petroleum
110070540718	Petco Store #1194	CPIF Nugget Mall LLC	Petroleum
110003037534	Petro Marine Services Juneau	Trucano Family Partnership	Petroleum
110003040780	Petroleum Svcs Inc	DCI Properties LLC	Petroleum
110043460590	Safeway #1820	Safeway Inc C/O Albertsons Companies	Unknown
110015916455	Salmon Creek Water Filtration Plant	Alaska Electric Light & Power	Unknown
110003044768	Silver Bay Aviation	City and Borough of Juneau Airport, Aero Services Atlantic and Atlantic Aviation	Unknown
110003040913	Solid Waste Solutions	William R Tonsgard Jr	Petroleum/Chemical
110003036642	Southeast Antifreeze Recycling	Mark and Veronica Schultz	Chemical
110003036946	T W Hall	Dwan W and Cathy L Hall	Unknown
110012177447	UAS Marine Core Complex	University of Alaska Southeast	Unknown
110022315760	University Of Alaska, Bentwood Bldg	University of Alaska Board of Regents	Chemical
110003044786	Unocal 6431	Marian L Fiorella	Petroleum
110003044036	USDOT FAA Juneau	Federal Aviation Administration	Unknown
110003044287	USDA Fs Old Dairy Rd	RH Rentals LLC	Unknown
110037372535	USFS Duck Creek Administrative Site	Rainforest Properties LLC	Chemical

Site ID	Site Name	Property Owner	Type of Waste
110007398182	USGSA Federal Bldg Ch & Po	U S General Services Administration	Unknown
110003038203	Valley Lumber	8525 Holdings LLC	Petroleum
110003041841	Vintage Dry Cleaners	Sablefish LLC	Chemical
110003038588	Wal-Mart Supercenter 3814	Glacier Hwy LLC	Petroleum
110003044777	Ward Air Inc	City and Borough of Juneau Airport and Red Leasing LLC	Unknown
110003041011	Yukon Office Supply	Caelum AK LLC	Unknown
110003039550	Yukon Office Supply	Juneau Youth Services Inc	Unknown

ADEC Sites Contaminated Sites

Site ID	Site Name	Property Owner	Type of Waste/Status ¹⁷
25131	ADOT&PF Regional Complex Juneau	ADOT&PF	Petroleum/Active
26936	Aero Services USTs 1 & 2	City and Borough of Juneau Airport; Trajen Flight Services	Petroleum/Active
22996	Alaska Airlines - Juneau Cargo Facility	City and Borough of Juneau Airport; Alaska Airlines Inc	Petroleum/Active
26908	Bicknell Inc	Roscoe Bicknell IV	Petroleum/Active
26561	CBJ Capital Transit Building	City and Borough of Juneau	Petroleum/Active
24545	CBJ Capital Transit Bus Barn	City and Borough of Juneau	Petroleum/Active
23019	CBJ Hagevig Fire Training Center	City and Borough of Juneau	Petroleum/Active
27107	CBJ Hagevig Fire Training Center PFAS	City and Borough of Juneau	Chemical/Active
27384	CBJ Juneau Airport CCFR Engine A3 AFFF	City and Borough of Juneau Airport	Chemical/Active
27125	CBJ Juneau Airport Sitewide PFAS	City and Borough of Juneau Airport	Chemical/Active
26362	Channel Flying Juneau Airport	City and Borough of Juneau Airport	Petroleum/Active
26062	Cordova Heights Apartments	Grant Rentals LLC	Petroleum/Active

¹⁷ The ADEC contaminated sites database characterizes sites as active, cleanup complete, and IC.

Site ID	Site Name	Property Owner	Type of Waste
24941	FAA Juneau SFOP	Natalie Watson, Allan Breedlove, Mary Watson	Petroleum/Active
1450	FAA Juneau Station	City and Borough of Juneau Airport	Petroleum/Active
26537	Former Capital City Cleaners Nugget Mall	CPIF Nugget Lot 2 LLC	Petroleum and Chemical/Active
1982	GSA Juneau Federal Building	U.S. General Services Administration	Petroleum and Chemical/Active
24533	GSA Juneau Federal Building LUST	U.S. General Services Administration	Petroleum/Active
2987	Juneau Airport Fueling Facility	City and Borough of Juneau Airport; Trajen Flight Services	Petroleum/Active
3863	Mendenhall WW Treatment Plant	City and Borough of Juneau	Petroleum/Active
26863	Miller Construction Fuel Truck	Sherwood Lane Development LLC	Petroleum/Active
4536	Residence - 10481 Ann Coleman Road HHOT	Ann Coleman LLC	Petroleum/Active
26885	Residence - 1125 Glacier Avenue	Douglas W Arends and Leah Svetlich	Petroleum/Active
4061	Residence - Knickerbocker Spill	Thunder Mountain LLC	Petroleum/Active
27405	St. Vincent de Paul Apartments	St. Vincent de Paul Society	Petroleum/Active
26640	Valley Tesoro	Tower Legacy I LLC	Petroleum/Active
1183	E&L Auto	Nancy Marie Maki	Petroleum and Chemical/IC
4517	Juneau Airport Travelodge Hotel	Avo Property Inc	Petroleum/IC
23568	Unocal - #5785- Airport Union	Brittney Sooter	Petroleum and Chemical/IC
24532	Chevron - Airport (Paul's Chevron)	St. Vincent de Paul Society	Petroleum/IC
24743	PTI- Juneau Cessna Drive	J D Phone Co	Petroleum/IC
25156	CBJ Juneau Airport Maintenance Facility	City and Borough of Juneau Airport and R & L Leasing Inc	Petroleum/IC

Site ID	Site Name	Property Owner	Type of Waste
24511	Temsco Helicopters - Juneau Heliport	City and Borough of Juneau Airport and Temsco Helicopters	Petroleum/IC
2691	NETS Building	Southeast Alaska Regional Health Consortium	Petroleum/IC
4063	Residence - Misty Lane HHOT	Christopher D Holmes and Raeanne C Holmes	Petroleum/IC
26549	10th Street Tesoro	Delta Western Inc	Petroleum/IC
1755	Cameron Plumbing and Heating	Shawn J Obrien	Petroleum/IC
22895	CBJ Downtown Fire Station	City and Borough of Juneau	Petroleum/IC
2984	Mike's Airport Express	Brittney Sooter	Petroleum/IC

ADEC SWIMS Permit Holders

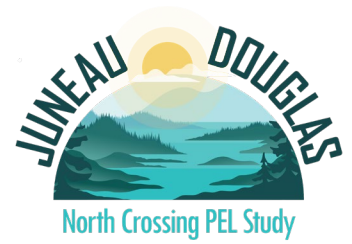
Site ID	Site Name	Property Owner	Type of Waste/Status ¹⁸
3776	Juneau Biosolid Treatment Facility	City and Borough of Juneau	Biosolids Treatment/Current

Non-regulated Waste Sites

Other Sites

Map ID	Site Name	Property Owner	Type of Waste or Business
1	2647 Engineers Cutoff	David O Ritter	Automobile salvage/recovery
2	Egan Express Lube	RPA Investments	Automobile salvage/recovery
3	Karl's Auto & Marine Repair	Kevin Williamson Trust	Automobile salvage/recovery
4	Broken Rudders, Inc.	Quad Properties LLC	Automobile salvage/recovery
5	Lawless Marine	Roscoe Bicknell IV	Automobile salvage/recovery
6	Alaska Painting and Striping	R & L Leasing	Construction
7	North Sales Company	Smith Properties	Automobile salvage/recovery
8	2500 Sherwood Ln	Sherwood Land Development	Construction

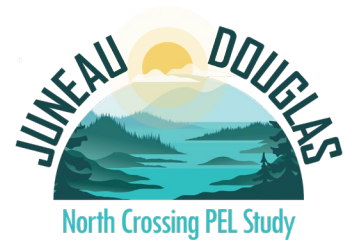
¹⁸ The ADEC Solid Waste Information Management System database characterizes permit status as active, inactive, closed, retired, removed, or expired.



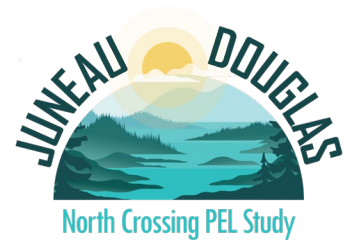
Site ID	Site Name	Property Owner	Type of Waste
9	Alaska Juneau Construction	Jeremy J Sidney	Construction
10	Glacier Construction	Glacier Construction Inc.	Construction
11	Deckhands Marine & Dave's Custom Detail	Gold Creek Properties	Automobile salvage/recovery
12	Willie's Marine	Tara J Harris	Automobile salvage/recovery
13	7900 Honsinger Dr	49th Investment Group LLC, Bicknell Inc,	Construction
14	6924 N Douglas Hwy	NorthStar Trekking Inc.	Helicopter Service
15	D & S Recycling	L & H Rentals	Recycling
16	8876 Teal St	Alaska Glacier Seafoods Inc	Automobile salvage/recovery

Table 2: Summary of Regulated ADEC Cleanup Complete Contaminated Sites

ADEC Cleanup Complete Contaminated Sites			
Site ID	Site Name	Property Owner	Type of Waste
2535	Engineer's Cutoff RV Park	Blue & Gold, LLC	Petroleum, solid waste
23317	Harborview Elementary School	City and Borough of Juneau	Petroleum
24902	Delta Air Cargo	City and Borough of Juneau Airport	Petroleum
24906	Chevron - Valley Chevron	Tower Legacy I LLC	Petroleum
24923	CBJ Fleet Maintenance	Juneau I LLC	Petroleum
4389	USFS Duck Creek Administration	Shawn Mauldin	Heavy metals
4448	Mendenhall Mall HOTs	Tower Legacy I LLC	Petroleum
23066	Channel Marina Inc Juneau	City and Borough of Juneau Docks and Harbors, DJG Development LLC	Petroleum
23124	Williams Express Store #5034 - Juneau	Schneider & Scott Inc	Petroleum
23338	Unocal - #6431 Downtown Station	Marian L Fiorella	Petroleum

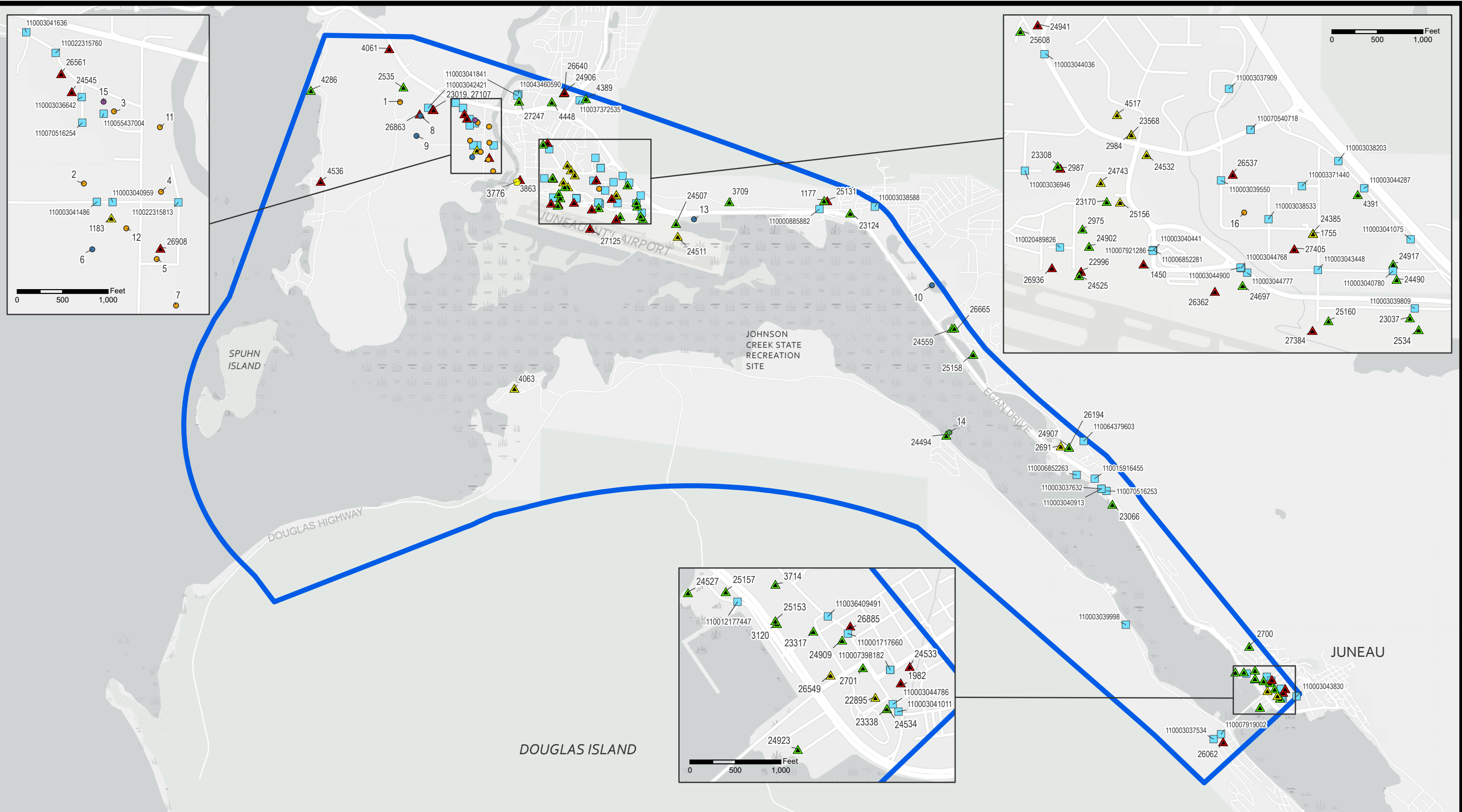


24385	Cameron Plumbing & Heating, Incorporated	Shawn J Obrien	Petroleum
24534	Unocal - #6431 Downtown Station	Marian L Fiorella	Petroleum
24909	Alaska Laundry and Cleaners - Juneau	Neil MacKinnon DBA Alaska Laundry Inc	Petroleum
25157	CBJ Outer Drive Utility Station	University of Alaska Southeast	Petroleum
23170	Aero Services, Juneau Airport	City and Borough of Juneau Airport	Petroleum
1177	ADOT&PF Juneau Equipment Yard	State of Alaska DOTPF	Petroleum, solid waste, chemical
24507	Temsco Helicopters	City and Borough of Juneau Airport	Petroleum
24697	Ward Air	City and Borough of Juneau Airport, Red Leasing LLC	Petroleum
25158	CBJ Twin Lakes Utility Station	City and Borough of Juneau	Petroleum
2701	Goldbelt Place Building	801 West 10 th Inc	Petroleum
24527	Aurora Harbor Fuel Dock - Juneau	City and Borough of Juneau	Petroleum
24559	Juneau Pioneer Home UST 1	State of Alaska Department of Natural Resources	Petroleum
2534	AKARNG Juneau AAOF	State of Alaska	Petroleum
2700	Beckerman Residence	Nicholas P Orr	Petroleum
2975	Wings Air Cargo Building	City and Borough of Juneau Airport, David W Heimbigner, Renda L Heimbigner	Petroleum
3120	Harborview School UST	City and Borough of Juneau	Petroleum
3709	Glacier Gardens Rainforest Adventures AST Spill	Glacier Gardens Real Estate LLC	Petroleum
3714	Juneau Former AMHS Building	City and Borough of Juneau	Petroleum
4391	USFS Juneau Ranger District Warehouse	RH Rentals LLC	Petroleum, heavy metals
23037	Juneau AAOF 300-gal Used oil tank	State of Alaska	Petroleum
23308	Delta Western Juneau Airport Fuel Storage	City and Borough of Juneau Airport	Petroleum
24490	Juneau Dairies District, Incorporated	DCI Commercial LLC	Petroleum
24494	ERA Helicopters, Juneau	NorthStar Trekking LLC	Petroleum



24525	Alaska Airlines - Juneau Cargo Building	City and Borough of Juneau Airport	Petroleum
24917	Douglas Trucking	Juneau Residences LLC	Petroleum
24907	Holland America Westours USTs #1 & #2	V & R Enterprises LLC	Petroleum
25153	Harborview School - Juneau	City and Borough of Juneau	Petroleum
25160	CBJ Glacier Valley Fire Station	City and Borough of Juneau	Petroleum
25608	Commercial Property - 9351 Glacier Highway	RH Rentals LLC	Petroleum
26194	Holland America Westours UST #3	V & R Enterprises LLC	Petroleum
26665	Juneau Pioneer Home UST 2	State of Alaska Department of Natural Resources	Petroleum
27247	Safeway #1820 Fuel Station Manifolder Vent Lines	Safeway Inc, Albertsons Companies	Petroleum
4286	Residence - 2790 Fritz Cove Road UHOT	Michelle M and Steven T Strickler Trustees	Petroleum

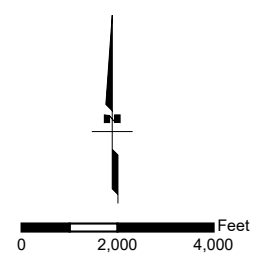
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PROPOSED STUDY AREA

- NON-REGULATED WASTE SITE**
- AUTOMOBILE SALVAGE/ RECOVERY
 - CONSTRUCTION
 - HELICOPTER SERVICE
 - RECYCLING
- EPA HAZARDOUS WASTE SITE**
- RESOURCE CONSERVATION AND RECOVERY ACT SITE

- DEC SWIMS* PERMIT STATUS**
- ◆ CURRENT
- DEC CONTAMINATED SITE STATUS**
- ▲ ACTIVE
 - ▲ CLEANUP COMPLETE
 - ▲ CLEANUP COMPLETE - INSTITUTIONAL CONTROLS



REGULATED HAZARDOUS SITES & NON-REGULATED WASTE SITES

SEC 25 - 27, 34 - 36, T 40S, R 65E; SEC 30 - 34, T 40S, R 66E
 SEC 1 - 12, 15 - 17, T 41S, R 66E;
 SEC 4 - 10, 15 - 17, 21 - 23, 27 T 41S, R 67E
 COPPER RIVER MERIDIAN, ALASKA



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

DOT&PF PROJECT NO. SFHWY00299/0003259
 JUNEAU DOUGLAS NORTH CROSSING PEL STUDY

CITY AND BOROUGH OF JUNEAU, ALASKA

APRIL 14, 2022	FIGURE 2
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