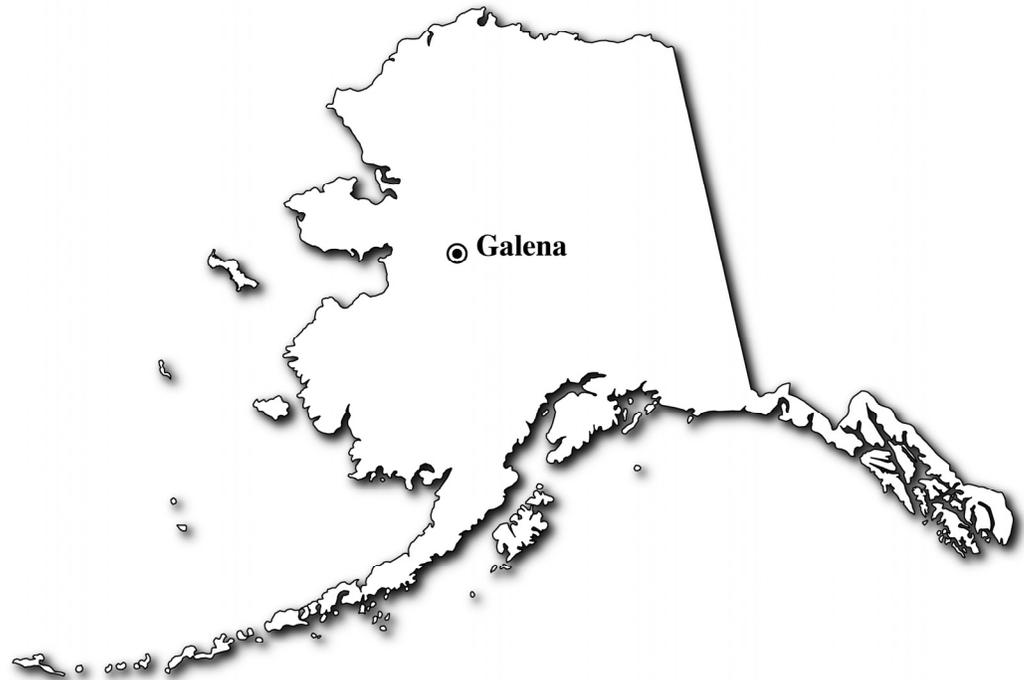




FINAL
ENVIRONMENTAL BASELINE SURVEY
AIR FORCE PROPERTY AT
GALENA AIRPORT, ALASKA
February 2010



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LIST OF ACRONYMS AND ABBREVIATIONS

611 CES	611 Civil Engineer Squadron
AAC	Alaska Administrative Code
AAC	Alaskan Air Command
ACM	asbestos-containing material
ADEC	Alaska Department of Environmental Conservation
AFB	Air Force Base
AFI	Air Force Instruction
AFPD	Air Force Policy Directive
AS	Alaska Statute
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
AVGAS	aviation gasoline
BLM	Bureau of Land Management
BTEX	Benzene, toluene, ethylbenzene, and xylenes
CAC	Combat Alert Cell
CAIS	Chemical Agent Identification Set
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
Commission	Defense Base Closure and Realignment Commission
CSE	Comprehensive Site Evaluation
CWA	Clean Water Act
DBCRA	Defense Base Closure and Realignment Act
DDT	dichlorodiphenyltrichloroethane
°	degree
DF-8	diesel fuel, grade 8
DMM	discarded military munitions
DOD	Department of Defense
DOT & PF	Department of Transportation and Public Facilities
DRO	Diesel Range Organics
EA	environmental assessment
EBS	environmental baseline survey
EOD	Explosive Ordnance Disposal
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
ERP	Environmental Restoration Program
F	Fahrenheit
FAA	Federal Aviation Administration
FOL	Forward Operating Location
FOST	Finding of Suitability to Transfer
FOSTL	Finding of Suitability to Terminate Lease
GAVTC	Galena Aviation Vocational Training Technical Center
GEU	Galena Electric Utility
gpm	gallon per minute
GRO	Gasoline Range Organics
HQ AFCEE	Headquarters Air Force Center for Engineering and the Environment
IDW	Investigative Derived Waste
INRMP	Integrated Natural Resources Management Plan
JP-8	jet propulsion fuel, grade 8

kW	kilowatt
LBP	lead-based paint
LUST	leaking underground storage tank
MBTA	Migratory Bird Treaty Act
MC	munitions constituents
MEC	Munitions and Explosives of Concern
MOA	Memorandum of Agreement
MOGAS	motor gasoline
MRA	Munitions Response Area
National Register	National Register of Historic Places
NEPA	National Environmental Policy Act
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NFRAP	No Further Response Action Planned
NWI	National Wetlands Inventory
ODI	Open Dump Inventory
ODPCP	Oil Discharge Prevention and Contingency Plan
ORL	owner-requested limit
OSHA	Occupational Safety and Health Administration
OWS	oil/water separator
PACAF	Pacific Air Force
PA/SI	Preliminary Assessment/Site Investigation
PCB	polychlorinated biphenyl
pCi/l	picocuries per liter
P.L.	Public Law
POL	petroleum, oil, and lubricants
ppm	parts per million
psi	pound per square inch
PVC	polyvinyl chloride
RAMP	Radon Assessment and Mitigation Program
RAPCON	Radar Approach Control
RCRA	Resource Conservation and Recovery Act
SHPO	State Historic Preservation Officer
SSDS	Subsurface Depressurization System
SVE	Soil Vapor Extraction
TCE	trichloroethylene
TSCA	Toxic Substances Control Act
U.S.C.	U.S. Code
USFWS	U.S. Fish and Wildlife Service
UST	underground storage tank
VRS	visual reconnaissance survey
VSI	visual site inspection

1.0 PURPOSE OF THE ENVIRONMENTAL BASELINE SURVEY

1.1 INTRODUCTION

This environmental baseline survey (EBS) has been prepared to document the environmental condition of Air Force property at Galena Airport, Alaska, resulting from the storage, release, and disposal of hazardous substances and petroleum products and their derivatives over the installation's history. Preparation of an EBS is required by Department of Defense (DOD) policy before any property can be sold, leased, transferred, or acquired. Air Force Policy Directive (AFPD) 32-70, *Environmental Quality*, provides responsibilities and procedures for conducting an EBS and is implemented through Air Force Instruction (AFI) 32-7066, *Environmental Baseline Surveys in Real Estate Transactions*.

The EBS will also be used by the Air Force to comply with the provisions of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) 42 U.S. Code (U.S.C.) 120(h)(3) when property is being transferred by a federal agency. This EBS aids in establishing present property conditions that will be utilized in making decisions supporting the termination of the Air Force lease with the State of Alaska, Department of Transportation & Public Facilities (DOT & PF) and the possible conveyance of Air Force buildings to interested agencies.

Pursuant to the Defense Base Closure and Realignment Act (DBCRA) of 1990 (Public Law [P.L.] 101-510, Title XXIX), the DOD must realign and reduce its military forces. DBCRA established an independent Defense Base Closure and Realignment Commission (Commission) to review the Secretary of Defense's base closure and realignment recommendations. After reviewing these recommendations, the 2005 Commission forwarded its recommended list of base closures and realignments to the President, who accepted the recommendations and submitted them to Congress. Since Congress did not disapprove the recommendations in the time given under DBCRA, the recommendations became law. The Secretary's proposed list did not initially include the Air Force Forward Operating Location (FOL) at Galena. However, the installation was added by the Commission for further consideration. Because the FOL at Galena was on the Commission's list, the decision to close the installation is final. The FOL at Galena closed on September 30, 2008.

In 1966, the Federal government transferred the Galena FOL property (land) to the State of Alaska in compliance with the 1958 Statehood Act. The Air Force is leasing the land on which military buildings were constructed. The land is shared with several other federal agencies including the Bureau of Land Management (BLM) and Federal Aviation Administration (FAA) as well as state agencies (e.g., DOT & PF, State Police, and Department of Fish and Game).

In 2007, the Air Force prepared an environmental assessment (EA) to support Air Force property disposition at Galena Airport. Most of the Air Force buildings and infrastructure have been transferred to federal, state, and local agencies for their

exclusive use. An EBS was also prepared in 2008 to document the environmental condition of the Air Force property. The 2008 EBS focused on the Air Force buildings within the cantonment of the airport to support transfer of the buildings. The focus of this EBS is to document the environmental condition of Air Force leased land (on which current and former Air Force buildings are situated) as well as the environmental condition of the two remaining Air Force buildings (Buildings 1428 and 1568).

The information presented in this EBS is complete and accurate as of August 2009. This EBS is based on available environmental information related to past and present storage, release, or disposal of hazardous substances and petroleum products on Air Force property at Galena Airport.

This EBS will be used by the Air Force, along with other available information, to:

- Develop sufficient information to assess the health and safety risks on the property surveyed and to determine what actions are necessary to protect human health and the environment
- Support decisions for Finding of Suitability to Terminate Lease (FOSTL) of Alaska DOT & PF land and Finding of Suitability to Transfer (FOST) Air Force buildings as well as aid in determining potential land use restrictions
- Support notice, when required under Section 120(h) of CERCLA, of the type, quantity, and time frame of any storage, release, or disposal of hazardous substances or petroleum products or their derivatives at Air Force buildings
- Identify data gaps concerning environmental contamination
- Identify potential environmental concerns associated with the property.

1.2 CONTENT AND FORMAT

The format of this EBS is unique because the Air Force leases 37 land parcels at Galena Airport from the Alaska DOT & PF and owns two structures situated on the leased land. For the purposes of this EBS, Air Force property is defined as 37 leased land parcels comprising approximately 66 acres, Building 1428 (Combat Alert Cells [CAC]), and Building 1568 (Former Radar Approach Control [RAPCON]) at Galena Airport. For purposes of disposal activities and consideration of environmental resources in this EBS, the property categorization of the two structures has been separated from the condition of the leased land areas. Other Air Force buildings and infrastructure at Galena Airport has been transferred to the City of Galena or other interested entities.

This EBS is based on information obtained through a records search, interviews, visual site inspections (VSIs), and visual reconnaissance surveys (VRSs) conducted in August 2009. The records search included a review of available Air Force and other agency records, including environmental restoration and

compliance reports; records, audits, surveys, and inspection reports within the base files; and an analysis of aerial photographs. Interviews with former installation personnel and visual and physical inspections of the Air Force buildings and leased property at Galena Airport were also conducted.

The EBS also includes an assessment of environmental conditions of off-site properties contiguous to or relatively near the Air Force property at Galena Airport that could pose environmental concerns to and/or affect the subject property. Visual inspections of adjacent properties were conducted from installation property or public roads.

The format of this EBS report generally follows the suggested format outline in AFI 32-7066. The report is organized as follows:

- **Chapter 1.0 - Purpose of the Environmental Baseline Survey:** Describes the purpose, format, and content of the EBS. It also discusses the physical boundaries of the survey.
- **Chapter 2.0 - Methodology:** Presents the approach and rationale used to identify and delineate environmental concerns, the property categorization process, and the limitations encountered and assumptions that were made.
- **Chapter 3.0 - Subject Property Findings:** Establishes the baseline status or environmental condition of the property and Air Force-related remediation sites at the time of the survey; and summarizes findings for the Property Categorization Factors and Facility Disclosure Factors. This chapter specifically addresses the environmental condition of Air Force retained buildings and lease property. This chapter also addresses the environmental condition of Environmental Restoration Program (ERP) sites and compliance sites (e.g., storage tanks, oil/water separators [OWSs], ordnance sites, etc.) for which the Air Force still retains responsibility whether the sites are associated with the Air Force retained buildings/lease parcels or buildings that have already been transferred. In some cases, the sites are not associated with an Air Force structure or lease parcel; however, because the Air Force is responsible for any remediation or close-out efforts at these sites, they have been addressed as part of the Air Force subject property.
- **Chapter 4.0 - Adjacent Property Findings:** Describes the approach used to conduct the adjacent property evaluation, and presents the results from federal, state, and tribal agency records and other database searches, and visual inspections. For the purpose of this EBS, adjacent properties are defined as property adjacent to Galena Airport (i.e., having a contiguous border), as well as off-site property within 1.0 mile of the Galena Airport with potential environmental concerns identified through a search of federal, state, and tribal agency records.
- **Chapter 5.0 - Conclusions:** Presents information derived from the records search and site inspections, and categorizes the level of contamination associated with the subject property. This chapter

also discloses data gaps and requirements for further investigation that are needed to close out environmental concerns.

- **Chapter 6.0 - Compliance Issues:** Presents compliance issues for environmental resources that pose a potential concern to the property.
- **Chapter 7.0 - Certifications and List of Preparers:** Includes the EBS certification and a list of personnel who contributed to the preparation of the EBS.
- **Chapter 8.0 - References and Persons Contacted:** Provides an inventory of the reference material used in preparation of the EBS and a list of people interviewed.
- **Chapter 9.0 - Glossary of Terms:** Provides a list of terms used throughout this EBS. For each term, a detailed and complete definition is provided.
- **Appendix A - Environmental Factor Summary.**
- **Appendix B - Site Photographs.**
- **Appendix C - Federal, State, and Tribal Database Search Findings.**
- **Appendix D - Hazardous Materials Inventory.**
- **Appendix E - Visual Site Inspection Forms.**
- **Appendix F - Historic Aerial Photographs and Historic Maps.**
- **Appendix G - Environmental Restoration Program Sites.**

1.3 SURVEY AREA BOUNDARIES

Galena Airport is in central Alaska within the Yukon-Koyukuk Borough. The airport is approximately 270 miles west of Fairbanks and 350 miles northwest of Anchorage (Figure 1-1). The Air Force leased property consists of 37 land parcels comprising approximately 66 acres. With the exception of Building 1428 and Building 1568, all Air Force buildings and infrastructure at Galena Airport has been transferred to the City of Galena or other interested entities (Figure 1-2).

The findings of this EBS are based on a review of available information and inspection of property associated with:

- Property leased from Alaska DOT & PF (37 land parcels) and Air Force-owned buildings (i.e., Buildings 1428 and 1568)
- ERP and compliance sites for which the Air Force still retains responsibility



GalenaAS/001

EXPLANATION

Regional Map

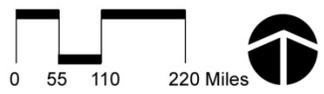
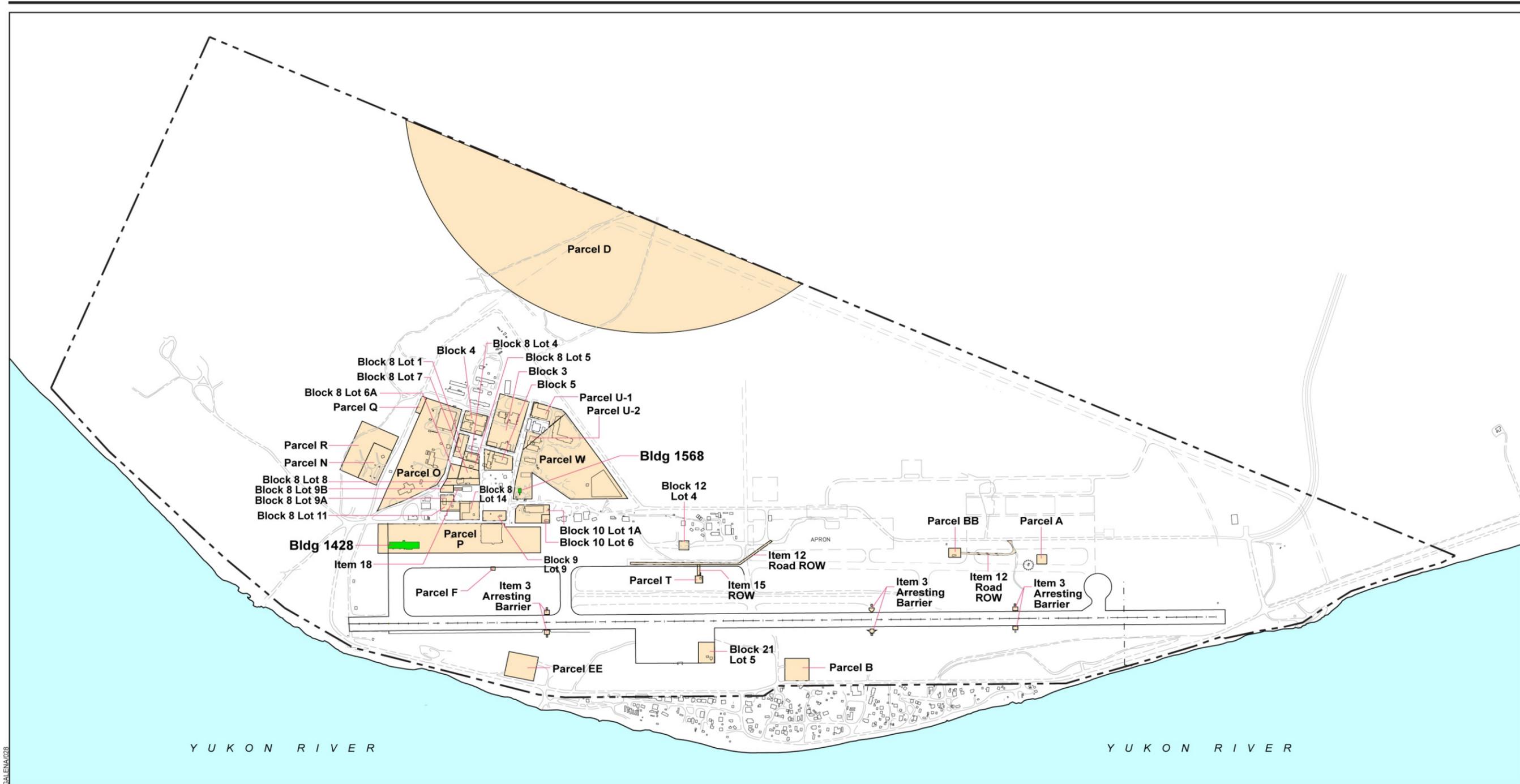


Figure 1-1

- Property immediately adjacent to Galena Airport
- Property within approximately 1.0 mile of the Galena Airport boundaries with potential environmental concerns.

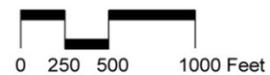
The results of the survey for the Air Force property and adjacent property are discussed in Chapters 3.0 and 4.0, respectively.



EXPLANATION

1428 and 1568 - Air Force Buildings

Air Force Leased Property



Note: With the exception of buildings 1428 and 1568, all Air Force buildings and infrastructure have been transferred.

Air Force Buildings and Leased Property

Figure 1-2

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2.0 METHODOLOGY

The methods used to prepare the EBS are described in this chapter. Section 2.1 provides an overview of the entire EBS process. Section 2.2 provides a description of the data collection process, including the approach used to accomplish each of the major components (i.e., records search, inspections, and interviews). Section 2.3 describes each of the environmental factors and identifies the primary sources of information used. Section 2.4 provides a description of the property categorization process including the criteria used and the rules on determining property transferability. Section 2.5 identifies any unique assumptions made or limitations encountered that affect the methodology described in this chapter.

The format of this EBS is unique because the Air Force leases 37 land parcels at Galena Airport and owns two structures situated on the leased land. For purposes of disposal activities and consideration of environmental resources in this EBS, the property categorization of the two structures has been separated from the condition of the leased land areas. Other Air Force buildings and infrastructure at Galena Airport has been transferred to the City of Galena or other interested entities.

2.1 APPROACH AND RATIONALE

A methodical process was followed for this EBS in which available information was analyzed and conclusions were drawn about the condition of Air Force property at Galena Airport. First, property records were reviewed to identify historic land and building uses that may be primary indicators of potential contamination. Studies and field investigations based on CERCLA and Resource Conservation and Recovery Act (RCRA) (42 U.S.C. Section 6901, et seq.) requirements were then reviewed to identify areas where the presence (or absence) of contamination has been confirmed. Audits and surveys (e.g., asbestos-containing material [ACM], lead-based paint [LBP]) were reviewed to identify any other environmental concerns. In addition, former installation and remediation personnel were interviewed, and the land and buildings were physically inspected to identify evidence of stressed vegetation, stained soils, unusual odors, or other issues that might indicate the presence of contamination.

2.2 DATA COLLECTION

The major components of the EBS effort included a review of various records and documents, including interpretation of aerial photographs, inspections of Air Force leased land and owned buildings, and interviews with former installation and remediation personnel. Each of these components is described below. The approach for conducting the evaluation of adjacent properties is presented in Chapter 4.0.

2.2.1 Description of Documents Reviewed

The records search of available documentation focused primarily on records, reports, maps, and aerial photographs.

Various studies, investigations, and inspections that consider environmental conditions at Galena Airport, including regulatory compliance issues, have been conducted by the Air Force and other state and federal agencies in the past several years. The results of these studies and investigations provided the initial baseline used to develop this EBS and are referenced throughout this document. A detailed list of references used in preparing this EBS is presented in Chapter 8.0. The primary types of studies or investigations include the following:

- ERP studies
- Basewide environmental and infrastructure studies (e.g., EBS Report, ACM and LBP surveys)
- Installation planning documents (e.g., Integrated Natural Resources Management Plan [INRMP])
- EBSs and National Environmental Policy Act (NEPA) documentation for the subject property.

As part of the records search, historic aerial photographs (1952, 1962, 1963, 1969, 1971, 1972, 1978, 1980, 1985, and 1992) and maps (1952, 1961, 1962, 1964, 1968, 1969, 1972, 1975, 1978, 1991, and 1996) of Galena Airport were reviewed and analyzed to assist in identifying past land and building uses and potential environmental contamination sources, and to verify other information found in the records search (U.S. Air Force, various dates).

2.2.2 Inspection of Properties Conducted

VSI and VRS were conducted in August 2009 to verify characteristics or features identified in the records search and to identify other potential environmental concerns related to Air Force property at Galena Airport. Generally, VRSs are cursory physical inspections conducted by walking around or through the areas in question. VSIs are exterior and interior (walk-through) inspections of buildings, and were conducted to identify readily apparent concerns or attributes.

VSI of Air Force buildings (i.e., Buildings 1428 and 1568) were conducted to determine or confirm the presence (or absence) of environmental contamination or concerns, including unusual odors, stained soils, stressed vegetation, storage tanks, or other indications of potential contamination.

VSI of buildings owned/operated by other agencies at Galena Airport were not performed. These buildings were evaluated as adjacent property and if releases had occurred at these buildings, the search of federal and state databases as

well as investigations conducted by the Air Force would identify any sites of concern.

VRSs were conducted throughout Galena Airport and surrounding areas to identify potential environmental contamination. The Air Force buildings at Galena Airport are listed and their key characteristics summarized in Appendix A. Photographs of Air Force buildings and areas of concern are provided in Appendix B.

2.2.3 Personnel Interviews

During the records search and VSIs, personnel at Elmendorf Air Force Base (AFB) as well as personnel at Galena Airport were interviewed to identify potential environmental concerns related to recent and historic Air Force operations at Galena Airport, and to verify information found during the records search. A list of individuals contacted during the preparation of this EBS is provided in Chapter 8.0. Primary contacts were made with personnel from 611th Civil Engineer Squadron (611 CES) and on-site personnel that are responsible for maintenance/operation of Air Force buildings and remediation efforts.

2.3 ENVIRONMENTAL FACTOR ASSESSMENT

2.3.1 Property Categorization Factors

Property categorization factors address storage and release of those substances that are regulated under CERCLA and RCRA. These factors determine the overall property category of land and buildings.

Hazardous Substances

Hazardous Materials. Information regarding hazardous materials usage and storage was obtained through interviews with 611 CES personnel, hazardous substance inventories, and through VSIs of the buildings.

Hazardous Waste. Information regarding hazardous waste generation and accumulation was obtained through a review of installation files. The primary documents reviewed were ERP reports and compliance-related hazardous waste management and minimization plans. VSIs and interviews were used to confirm information found in the installation files.

Petroleum Products

Information concerning the location of petroleum, oil, and lubricants (POL) storage, spills, and other incidents was obtained through interviews, a review of installation files (including ERP reports), and VSIs.

Storage Tanks and Related Systems

Information concerning storage tanks and related systems was obtained from interviews, a review of aboveground storage tank (AST) and underground

storage tank (UST) inventories, and VSIs of the buildings. Personnel associated with ERP and compliance activities were interviewed in order to verify the most recent data on storage tanks.

Treatment Systems and Components

Information about treatment systems such as OWSs, septic tanks, and grease traps, was obtained during interviews and a review of installation records.

Environmental Restoration Program Sites

Information on the status of ERP Sites consisted of a review of ERP documents and interviews with personnel responsible for implementing and coordinating ERP investigative and remedial activities.

Medical/Biohazardous Waste

Information on the generation and disposal of medical/biohazardous waste was obtained from a review of 611 CES records and interviews.

Ordnance

Information regarding the storage or use of ordnance was identified through a review of Real Property Accountable Records, 611 CES records, and interviews.

Pesticides

Information on pesticide storage and use was identified through a review of the Pesticide Management Plan for the installation provided by the 611 CES and interviews.

Radioactive Materials and Mixed Waste

Information on radioactive materials and mixed waste was obtained from a review of 611 CES records.

2.3.2 Facility Disclosure Factors

Information on disclosure factors (air quality [indoor], ACM, drinking water quality, LBP, PCBs, and radon) was reviewed. Disclosure factors are substances that are not regulated under CERCLA but may cause environmental concerns. Notification of the presence of disclosure factors is not required under CERCLA Section 120(h)(1); such notification is provided to satisfy real estate transaction requirements.

Air Quality (indoor)

Information regarding indoor air quality concerns was obtained from interviews with 611 CES personnel.

Asbestos-Containing Material

Information on buildings containing ACM was obtained from a review of asbestos records and interviews.

Drinking Water Quality

611 CES records were reviewed for information regarding drinking water quality.

Lead-Based Paint

Real Property Accountable Records and LBP survey results were reviewed to determine which buildings may contain LBP.

Polychlorinated Biphenyls

Information on PCB-containing equipment was obtained from transformer inventories and interviews.

Radon

Information regarding radon sampling results was obtained from State of Alaska and U.S. Environmental Protection Agency (EPA) records.

2.3.3 Conservation Disclosure Factors

Information on conservation disclosure factors (cultural resources [historic properties, prehistoric sites, traditional cultural resources], biological resources [sensitive habitats/wetlands, threatened and endangered species], physiographic conditions [floodplains, landslide/sinkhole conditions], and valuable resources including mineral resources, prime and unique farmland or timberlands) was obtained from interviews, a review of 611 CES records (e.g., INRMP), and from documents available from public agencies.

2.4 PROPERTY CATEGORIZATION

Property categories are based on the definitions included in AFI 32-7066. However, in 1996, revisions were made to property categories based on DOD guidance that revised the definition of “uncontaminated” property used in the Category 1 designation (U.S. Air Force, 1996a). Uncontaminated property is defined as property where no release or disposal of hazardous substances or petroleum products has occurred. Therefore, a property can be considered Category 1, even if hazardous substances or petroleum products are stored on the property. Under the original property category definitions, storage of hazardous substances or petroleum products, even without a release, caused the property to be considered Category 2. Under the revised property category definitions, property associated with the release of a petroleum product is considered Category 2. Within this EBS, hazardous substance storage is noted, as appropriate. However, unless a release has been identified, the property is considered Category 1.

Based on an analysis of the available data, the two Air Force buildings and 37 leased land parcels at Galena Airport were classified into one of seven categories:

- *Category 1* - Areas where no release or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas)
- *Category 2* - Areas where only release or disposal of petroleum products has occurred
- *Category 3* - Areas where release, disposal, and/or migration of hazardous substances have occurred, but at concentrations that do not require a removal or remedial response
- *Category 4* - Areas where release, disposal, and/or migration of hazardous substances have occurred, and all removal or remedial actions have been taken
- *Category 5* - Areas where release, disposal, and/or migration of hazardous substances have occurred, and all removal or remedial actions are underway, but have not yet been completed
- *Category 6* - Areas where release, disposal, and/or migration of hazardous substances have occurred, but remedial actions have not been implemented
- *Category 7* - Areas that are not evaluated or require additional evaluation.

Air Force buildings and leased land in the first four categories would be eligible for transfer (or lease termination). Air Force buildings and leased land in the last three categories would not be considered for transfer (or lease termination) until the necessary actions have been taken and the buildings or land have been reclassified into one of the first four categories.

Pursuant to U.S. EPA and DOD guidance, this EBS identifies property as uncontaminated even if some limited quantity of hazardous substances or petroleum products was released or disposed in cases where the available information indicates that such release or disposal poses no threat to human health or the environment. Examples, as provided in the U.S. EPA guidance, include usage of common household chemicals, storage of heating fuel in base housing areas, incidental releases of petroleum products on roadways and parking lots, and the routine licensed application of pesticides (U.S. Environmental Protection Agency, 1994).

Information on property categorization factors (i.e., hazardous substances, petroleum products, storage tanks and related systems, treatment systems and components, ERP sites, medical/biohazardous waste, ordnance, pesticides, and radiological substances) was reviewed to determine the presence and status of each. Land and buildings were categorized independent of each other because

of the different real estate transactions associated with each. The ownership of the land will be retained by the DOT & PF, the Air Force intends to terminate their lease for use of the land; the buildings may be transferred by deed to interested federal, state, or local agencies or demolished. Each factor was first categorized based on its past or present potential for environmental concern. Then, the categories for all factors present at each location were considered to determine the overall land or building category. The highest category would determine the overall category for the land/building. For example, if a parcel of land had a storage tank classified as Category 2 and an ERP site classified as Category 5, the overall categorization would be a Category 5.

2.5 LIMITATIONS AND ASSUMPTIONS

VSI of buildings owned/operated by other agencies at Galena Airport were not performed. These buildings were evaluated as adjacent property.

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3.0 SUBJECT PROPERTY FINDINGS

This chapter presents the findings of the records search, interviews, VSIs, and VRS. An overview of the history and land use for the Air Force property at Galena Airport is presented in Section 3.1. Section 3.2 provides a description of the environmental setting, including relevant information on topography and surface drainage patterns, and utility systems. Section 3.3 presents the property categorization factor findings, and Section 3.4 presents findings on the two types of disclosure factors, Facility Disclosure Factors and Conservation Disclosure Factors. The factors identified in Section 3.4 represent disclosure issues only and were not used in property categorization.

The data within each factor have been organized into tables. Appendix A at the end of this EBS provides a summary of the environmental factors for each of the Air Force buildings at Galena Airport (Table A-1). Appendix A also provides a listing of ERP Sites resulting from past Air Force activities at Galena Airport (Table A-2) as well as a listing of ERP Sites associated with specific Air Force leased land parcels (Table A-3). Table A-4 provides a listing of ERP Sites resulting from past Air Force activities at Galena Airport that are not associated with Air Force leased land parcels. The data listed in the tables are based upon information obtained from the 611 CES at Elmendorf AFB and Headquarters Air Force Center for Engineering and the Environment (HQ AFCEE), interviews, and VRS/VSI of the property conducted in August 2009.

3.1 HISTORY AND CURRENT USAGE

The following section provides a brief history of the region and activities that have occurred at Galena Airport.

3.1.1 History

Native Americans, particularly the Athabaskan Koyukuk, have been a strong presence in the vicinity of Galena for probably thousands of years. Koyukuk, at the mouth of the Koyukuk River 50 miles downstream of Galena, and Loudon, a native winter village 13 miles upstream of Galena on the Yukon River, were established and in contact with Europeans before Galena was built. Galena was established in 1918 as a shipping point on the Yukon River for lead mined from 1918 to 1922 in the Kaiyuh Mountain, 18 miles to the south. A roadhouse that was part of the dog team mail carrying system was moved to Galena in response to the mine opening, and after 1920 residents of Loudon moved to Galena and Loudon was eventually abandoned. A Catholic church was built and a school was opened in 1928, and a post office was established in 1932. Galena was incorporated as a fourth class city in 1971, and as a first class city in 1973 (U.S. Air Force, 1996d).

The runway at Galena was constructed by the Civil Aeronautics Authority in late 1941 as part of an overall civilian airport. From 1942 to 1945, Galena served as a refueling stop for aircraft to the Soviet Union under the lend-lease program. In

December 1945, it began operation as an airport. It was transferred to the state of Alaska following statehood. Galena was frequently subject to flooding during the spring breakup of ice on the Yukon River. An earth dike built across the western end of the field in 1943 was washed out in 1945. A dike mostly encircling the airport was subsequently constructed; however, the airport and nearby village have still been evacuated on several occasions due to flooding (U.S. Air Force, 1998b).

The 11th Air Force was designated the Alaskan Air Command (AAC) on 18 December 1945, and its headquarters were moved to Elmendorf AFB in Anchorage shortly thereafter. Its mission was providing "Top Cover for America," defending against the Soviet bomber threat. The key to Alaskan defense was perceived as preventing bombing attacks against the main military complexes at Fort Richardson and Elmendorf Field, both adjacent to Anchorage, and at Ladd Field near Fairbanks, using radar and interceptor aircraft.

The AAC negotiated an agreement with the Civil Aeronautic Authority in early 1951 for joint use of Galena Airport, and a construction program was begun to upgrade the facilities to base a squadron of fighter interceptors there. These plans were later dropped, but AAC proceeded to use the airfield as a forward operating base. Four F-94s were assigned to Galena FOL in March 1951 to train combat crews in intercepts and cold weather operations. The installation was upgraded in 1954 to accommodate F-89s, including improving the runway lighting system, and lengthening the runway from 6,500 to 7,250 feet. The AAC converted from the F-89 to the F-102 during the last half of 1957, and the F-102 and F-106 was replaced by the F-4E Phantom II in June 1970. By October 1982, the F-4Es were replaced with the F-15A Eagle, and two Boeing E-3 Sentry airborne warning and control aircraft were assigned in 1986 also. Galena was made the site of the regional long-range radar for aircraft control and warning, as part of the conversion to minimally attended radar in 1984. The F-15s stayed on alert at Galena until the drawdown in 1993. The AAC was replaced and absorbed by the 11th Air Force with the Pacific Air Force (PACAF) as the Major Command (U.S. Air Force, 1996d, 1998b).

3.1.2 Current Use

The airport is owned and operated by the State of Alaska. Air Force controlled property at Galena Airport has been in caretaker status since August 1993. Buildings 1428 (CAC) and 1568 (RAPCON) are the only buildings the Air Force is responsible for maintaining. Building 1428 is vacant and Building 1568 is used to support ongoing Air Force remedial investigations/actions at the airport. All former Air Force buildings and infrastructure (e.g., power plant/steam heating plant, water treatment plant, sewage treatment system, lodging, supply, offices, school, dining facilities, building and grounds maintenance, fuels maintenance and storage, and vehicle maintenance) have been transferred to the City of Galena or other entities. Most of the buildings at the airport are used by non-Air Force entities such as the City of Galena (education, dormitory, storage, utilities), DOT & PF (administrative, storage, maintenance), Alaska State Troopers (administrative, storage), BLM (lodging, administrative, storage), FAA (storage,

administrative), Alaska Department of Fish and Game (storage), and U.S. Fish and Wildlife Service (USFWS) (administrative, storage).

3.2 ENVIRONMENTAL SETTING

Galena Airport is in central Alaska within the Yukon-Koyukuk Borough. The Air Force leased land at the airport consists of 37 land parcels comprising approximately 66 acres. Buildings 1428 and 1568 are the only buildings the Air Force is responsible for maintaining. All other buildings and infrastructure have been transferred to the City of Galena or other entities. Galena Airport is approximately 270 miles west of Fairbanks and 350 miles northwest of Anchorage (see Figure 1-1).

The climate of interior Alaska is continental, characterized by long, cold winters and short, warm summers, with light precipitation. Summer temperatures generally range from the mid 30s to upper 60 degrees Fahrenheit (°F), and winter temperatures range between -20 and 20 °F. The record low is -64 °F; the record high is 92 °F. Precipitation averages 14 inches annually, and snowfall averages 54 inches annually. Winds are generally calm or light, averaging 7.4 knots. Galena has an average frost-free growing season of 90 days. The Yukon River is sufficiently frozen for human travel for 6 months, from early November to early May.

3.2.1 Topography and Drainage Patterns

3.2.1.1 Topography.

The regional topography consists of relatively flat floodplains dominated by oxbow lakes and abandoned river meanders. Large accumulations of wind-blown sediments are also common across the floodplain. The lowlands are bordered by the Kaiyuh Hills, Kokrines Hills, Ray Mountains, and Kuskokwim Mountains (U.S. Air Force, 1999).

The topography at Galena is low and flat near the banks and along the floodplain of the Yukon River, with ground elevation between 100 and 150 feet above mean sea level. Much of the Galena Airport area has been filled with silty gravel to stabilize the soils for construction, with thickness ranging from 4 to 20 feet. Heavy structures have been built on pilings, both to minimize settlement and to reduce permafrost thawing.

3.2.1.2 Geology and Hydrology.

Galena is situated within the Koyukuk Flats physiologic province. The valleys of the Yukon-Koyukuk Basin occupy an extensive structural trough formed by subsidence during the Cenozoic period. The province is an extensive lowland, with thaw lakes, meander belts near the rivers, broad rolling silt plains with thaw sinks, and bedrock hills. The entire Yukon valley area is characterized by a ridges-and-trough topography reflecting the constant readjustment of the Yukon River system to seasonal flooding. The recent alluvial fans, terraces, and floodplains of the Yukon River and its tributaries are underlain by Quaternary

alluvium and lacustrine silt and silty sand of the late Tertiary period. At Galena, these sediments have been deposited by the Yukon River to a depth of more than 200 feet below grade. The shallow alluvial sediments consist of unconsolidated stratified layers of silt and sand, underlain by gravel, sandy gravel, silty sand, and sand (U.S. Air Force, 1996b).

Groundwater is perennial at Galena AFS beneath the zone of potential permafrost. Groundwater depth fluctuates from 5 feet in spring to more than 25 feet below grade in winter. River stage, spring thaw, and seasonal frost and permafrost have dramatic effects on groundwater levels and flow patterns. In winter and spring, shallow groundwater freezes, forming frost layers and lenses that redirect groundwater. The thin layer of supra-permafrost groundwater forms a seasonal unconfined water table above the permafrost in the summer and fall months. With the onset of winter, aquifer recharge sources freeze, and water levels drop or the water eventually re-freezes in to the permafrost wedge. Permafrost can form a confining layer impeding vertical movement between the shallow supra-permafrost and the sub-permafrost aquifers (U.S. Air Force, 1996b).

During the nine to ten months that the Yukon River is a gaining river, groundwater flows to the southwest. A short-term reversal in groundwater flow to the north occurs during spring breakup (May to June). This reversal is attributed to the abrupt rate at which the Yukon River rises in elevation to flood stage during breakup, causing the water table to slope away from the river. After the Yukon River reaches peak stage and resumes gaining river conditions, the direction of groundwater flow returns to the south/southwest (U.S. Air Force, 1996b).

3.2.1.3 Surface Drainage Pattern.

The Yukon River, which drains a large proportion of Alaska, is the dominant regional surface water feature (immediately adjacent to the Galena Airport). Other surface water features include smaller streams and rivers, thaw lakes, oxbow lakes, and river-flooded basins. Streams and rivers are characterized by low-gradients, meandering courses, and spring flooding. Surface water drainage also occurs by overland flow into sloughs discharging to the Yukon River. The suspended sediment content is high in spring and summer. Many streams in the Yukon Region are classified as high quality for drinking water purposes. However, some streams in the central subregion, principally those that drain lowlands, are stained red-brown from natural concentrations of iron and manganese. The community is susceptible to flooding, caused either by high runoff due to snow melt or by spring breakup of ice jams on the Yukon River. Flooding usually takes place in the spring (U.S. Air Force, 1996b).

Natural drainage patterns have been altered by construction of the airfield and numerous buildings on the property. In general, surface flow at Galena Airport is to the south by overland flow into sloughs, with discharge into the Yukon River.

The U.S. EPA granted the Air Force an exclusion from permitting (No Exposure Certification) under the terms and conditions imposed by the EPA's Stormwater Multi-Sector General Permit for Air Force activities at Galena Airport. The No Exposure Certification for the Air Force at Galena began in February 2006 (U.S. Environmental Protection Agency, 2006).

3.2.2 Utilities

A brief description of the utility systems at Galena Airport (i.e., electrical, water, wastewater, and steam heating) is provided below.

3.2.2.1 Electrical.

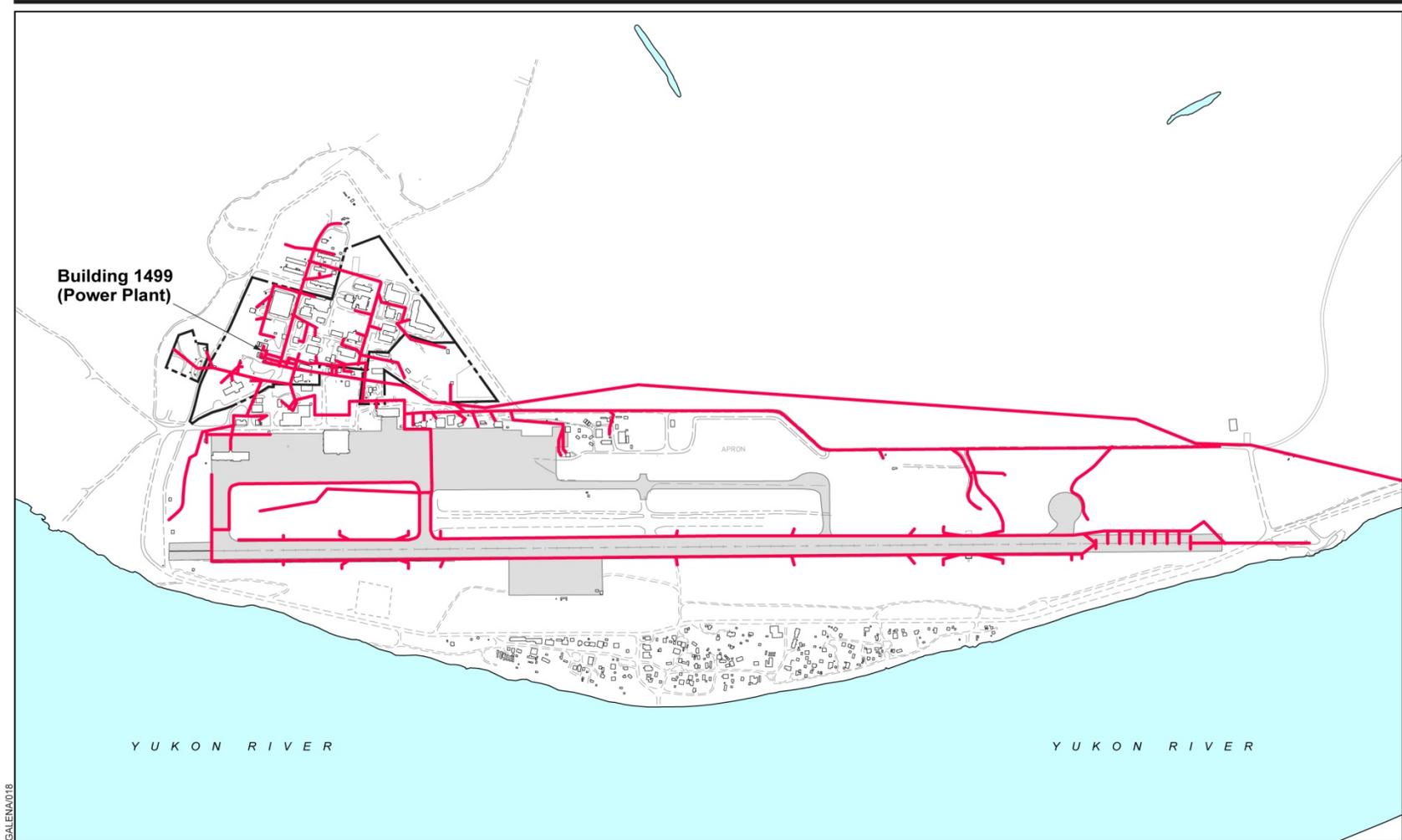
The Galena Electric Utility (GEU) delivers power to Galena Airport and other non-DOD users (e.g., BLM and civil air carriers). The City of Galena 4.5 megawatt power plant provides base load to the City and the airport. Galena's distribution system consists of two feeders, one at 4,160 volts to serve the City and the other at 24,940 volts to serve the airport. Diesel No. 2 is used as the primary fuel, and it is stored adjacent to and inside the power plant building. Fuel is delivered via barge service.

The City of Galena maintains the former Air Force power plant (Building 1499) that is used as a backup power source when the GEU fails to operate. The former Air Force power plant contained three 600-kilowatt (kW) Caterpillar generators, a 650-kW Emerson diesel generator, and a 300-kW White Superior generator. The electrical distribution system at Galena Airport is shown on Figure 3-1.

3.2.2.2 Water.

The Galena Airport water system, originally installed in the 1950s, includes three ground water wells, a treatment facility, one storage reservoir, and approximately 15,000 feet of distribution system piping. The water treatment plant is operated by the City of Galena and is located in Building 1578. Water is pumped from two potable wells (Wells # 1 and #7) through 6-inch mains to the water treatment plant, where it is treated for domestic use and stored in a 100,000-gallon storage tank located inside the treatment building. The existing treatment process consists of an aerator tower, pressure filtration, three water-softening units, a potassium permanganate chemical feed system to oxidize iron and recharge the filters and air stripper, and a hypochlorinator system. The water treatment system was updated in 2003, upgrades included replacement of the ion exchange water softeners, greensand filters, and chemical feed systems, and rehabilitation of the water storage tank.

The water distribution system consists of steel, copper, and cast iron lines ranging from 4 to 8 inches. These lines radiate away from the treatment plant and are carried in wooden aboveground utilidor, concrete below-ground utilidor, or direct-buy insulated "Arctic Pipe." This system serves the airport cantonment, including the Alert Hangar (Building 1428), apron area, fire station, 25 fire hydrants, and the BLM headquarters. Civilian air carriers are not served



EXPLANATION
 — Electrical Lines



Note: Electrical distribution system has been transferred to the City of Galena.

Electrical Distribution System Galena Airport

Figure 3-1

by the system. The water distribution system receives water from the treatment plant in two loops through two 175-gallon per minute (gpm) transfer pumps. These pumps draw water from the 100,000-gallon tank and pressurize it for distribution. A 3,000-gallon hydropneumatic tank maintains the system at 40-75 pounds per square inch (psi). The existing system is adequate for domestic needs (U.S. Air Force, 1996d).

The water treatment plant has the capacity to treat between 65,000 and 120,000 gallons of water per day, and water quality is tested on a quarterly basis. The current water demand is about 35,000 gallons per day. There is a 750-gpm fire pump available for emergency use.

Water can be drawn from two wells that are able to produce over 100 gpm each. There is an additional water well (Well #3) at former Building 1812 that is used for non-potable water requirements (e.g., dust control on roads). Supply capacity is 500 gpm. In addition to the two potable water wells and the one non-potable water well, there are five abandoned water wells at various locations on the airport. Local, shallow water wells may have been installed at other locations on base to provide water for lavatories or other non-potable uses. However, the Air Force has not identified any that are currently in use. A listing of water wells that serviced Air Force activities at Galena Airport is provided in Table 3.1. The water distribution system at Galena Airport is shown on Figure 3-2.

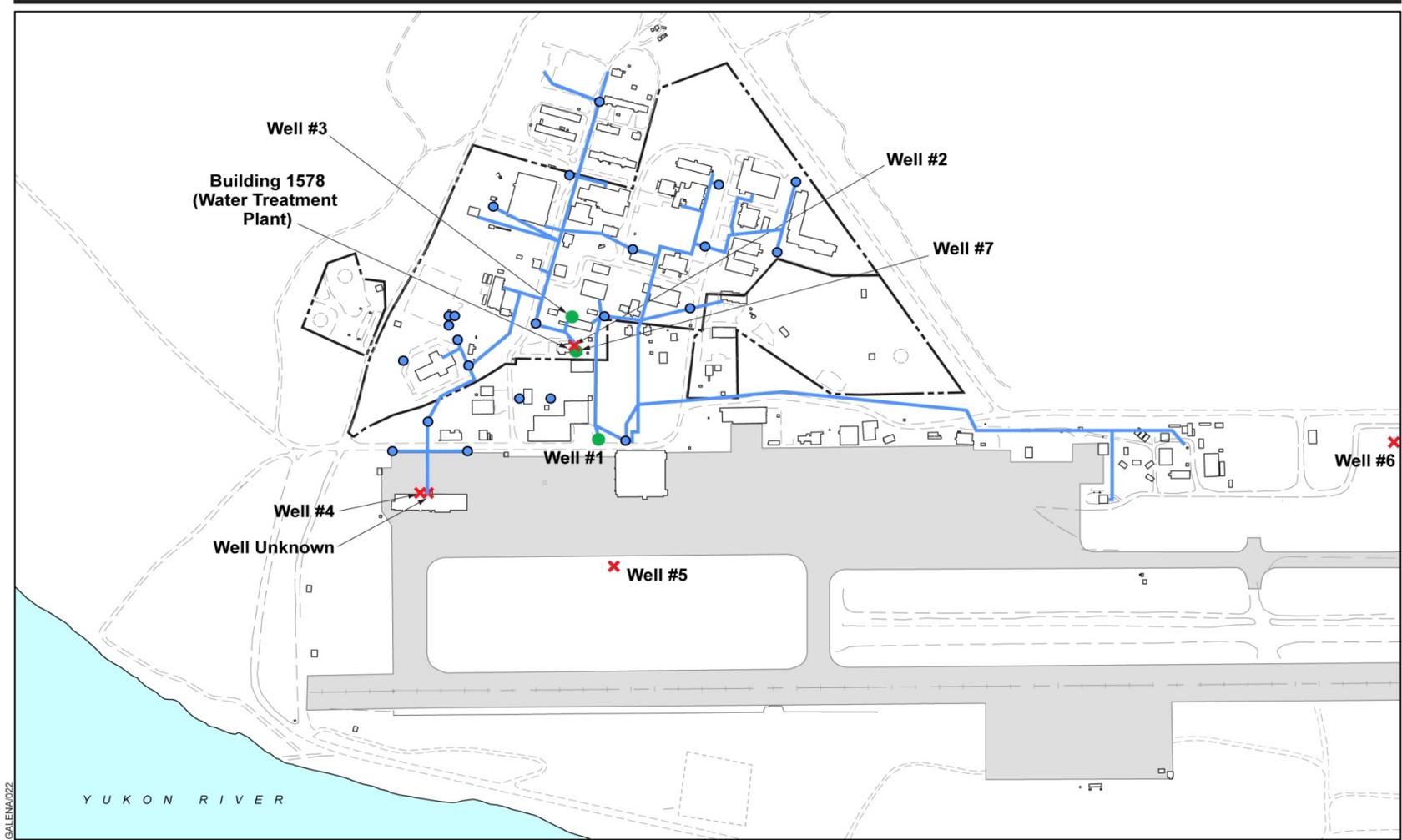
Table 3-1. Water Wells that Served Air Force Activities at Galena Airport

Water Well	Parcel	Location	Depth of Well (Well Diameter)	Condition and Use	Gallons Per Minute	Installation Date
Well #1	Block 8, Lot 14	Former Building 1549	205 feet (6-inch ID)	Active (potable water supply)	130	1963
Well #2	Block 8, Lot 8	Building 1578	210 feet (8-inch ID)	Abandoned	--	1956
Well #3	Block 8, Lot 7	Former Building 1812	200 feet (6-inch ID)	Active (non-potable water supply)	500	1956
Well # 4	Parcel P	Building 1428 within mechanical room	210 feet (8-inch ID)	Abandoned	--	1955
Well #5	Parcel F	Former Building 400	43 feet (4-inch ID)	Abandoned	--	1954
Well #6	NA	Former Building 1401	50 feet (6-inch ID)	Abandoned	--	1963
Well # 7	Block 8, Lot 8	Building 1578	198 feet (8-inch ID)	Active (potable water supply)	100	1990
Well # Unknown	Parcel P	Building 1428 outside mechanical room	Unknown	Abandoned	--	Unknown

Notes:

- = Well is abandoned and not used for water production.
- ID = inside diameter
- NA = not applicable, well is not situated within an Air Force leased parcel

Sources: U.S. Air Force, 2007a; AECOM, 2009.



EXPLANATION

- Water Line
- Active Well
- ✕ Inactive/Abandoned/Unknown Well
- Hydrant

0 150 300 600 Feet

Note: Water distribution system (including water wells) has been transferred to the City of Galena. Well #1 and Well #7 are potable wells; Well #3 is a nonpotable well.

**Water Distribution System
Galena Airport**

Figure 3-2

3.2.2.3 Wastewater.

The City of Galena operates the sanitary sewer system serving the airport cantonment. The system does not serve any of the buildings utilized by the civil air carriers. The collection system consists of a gravity sewer, force mains, grinder pumps, and lift stations that convey sewage to a treatment lagoon through an assortment of piping dating back to the early 1950s. The sewer lines include a diverse assemblage of materials including wood, copper, polyvinyl chloride (PVC), steel, ductile iron, and asbestos cement, both directly buried and in utilidors.

Sewage is pumped from the terminal lift station into a lined, aerated treatment lagoon. The lagoon holds approximately 1.5 million gallons and is divided with baffles into primary and secondary cells. The effluent passes by gravity through the lagoon to the disinfection building, where it is chlorinated. The treated effluent is then pumped 600 feet west of the dike, where it is discharged to percolate into the soil.

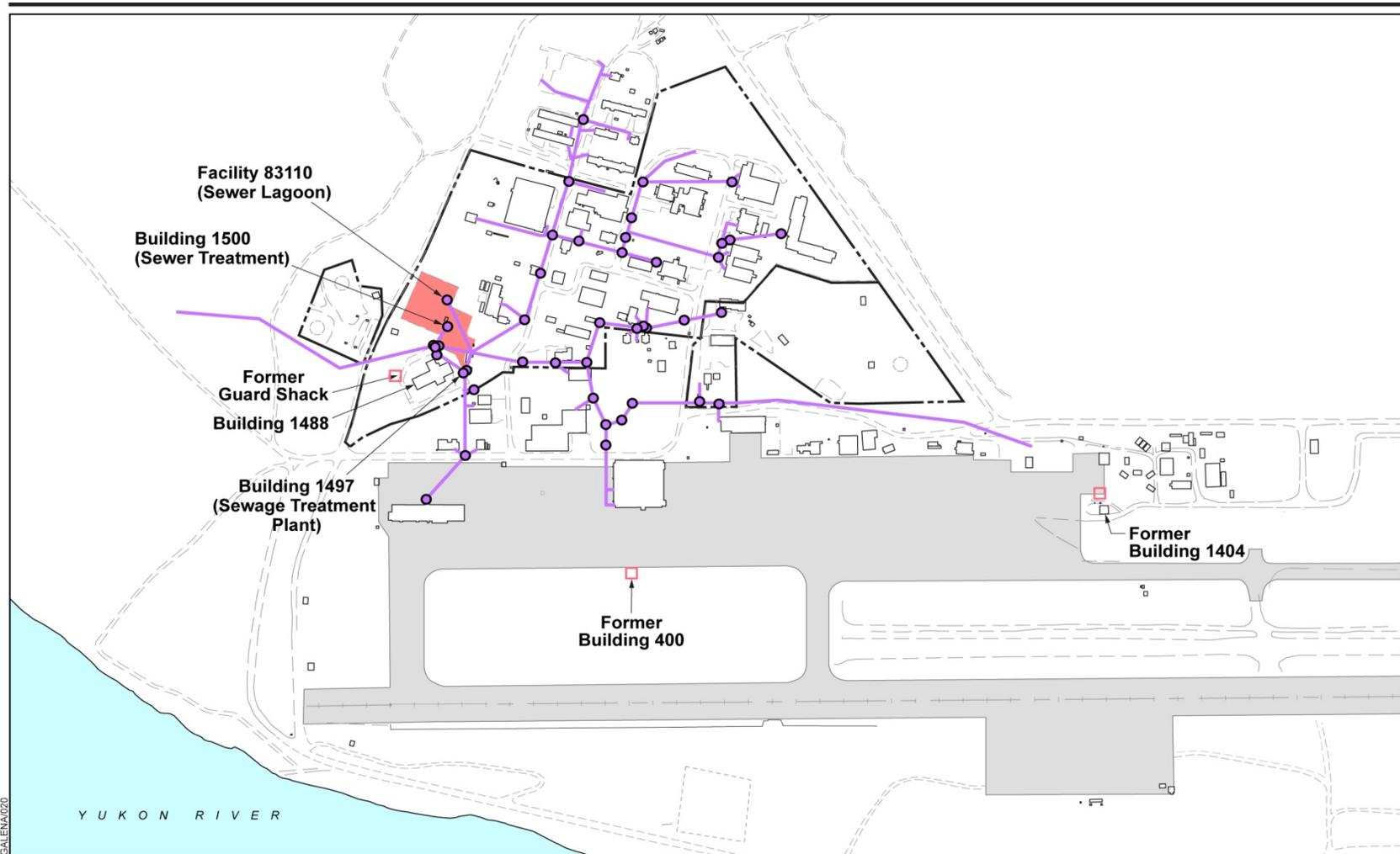
The lagoon was constructed in 1973 to replace an Imhoff tank treatment facility and was relined in 2006. The Imhoff tank, constructed in the 1940s, is still available for use in emergencies, although sludge must be withdrawn, dried, and disposed. The former control tower (Building 1404) and former guard shack for the munitions storage building (Building 1488) were connected to septic tanks. Both of these structures have been demolished. The tank at the control tower was used as a sewage holding tank and pumped by the City of Galena for treatment at their sewage treatment lagoon. The former guard shack utilized a small septic tank adjacent to the structure. The former weather station (Building 400) used a wood crib cesspool for sewage disposal (U.S. Air Force, 1996d). The sanitary sewer system at Galena Airport is shown in Figure 3-3.

3.2.2.4 Steam Heating.

Most buildings at Galena Airport are heated using steam. Three steam heating boilers situated in Building 1499 generate the steam to heat the buildings. There are approximately 18,700 linear feet of steam heating mains that were installed in 1956. Steam heating mains are routed through utilidors, which aid in keeping water and sewer lines from freezing during winter months. The steam heating system at Galena Airport is shown in Figure 3-4.

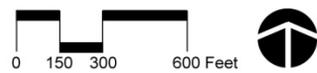
3.3 PROPERTY CATEGORIZATION FACTOR FINDINGS

The following sections describe factors used in property categorization. Property categorization was determined based upon the methodology presented in Chapter 2.0. Items (e.g., locations of hazardous materials storage, storage tanks) within each resource have been given a specific resource category, and findings for each resource were reviewed to obtain the overall property category (see Appendix A).



EXPLANATION

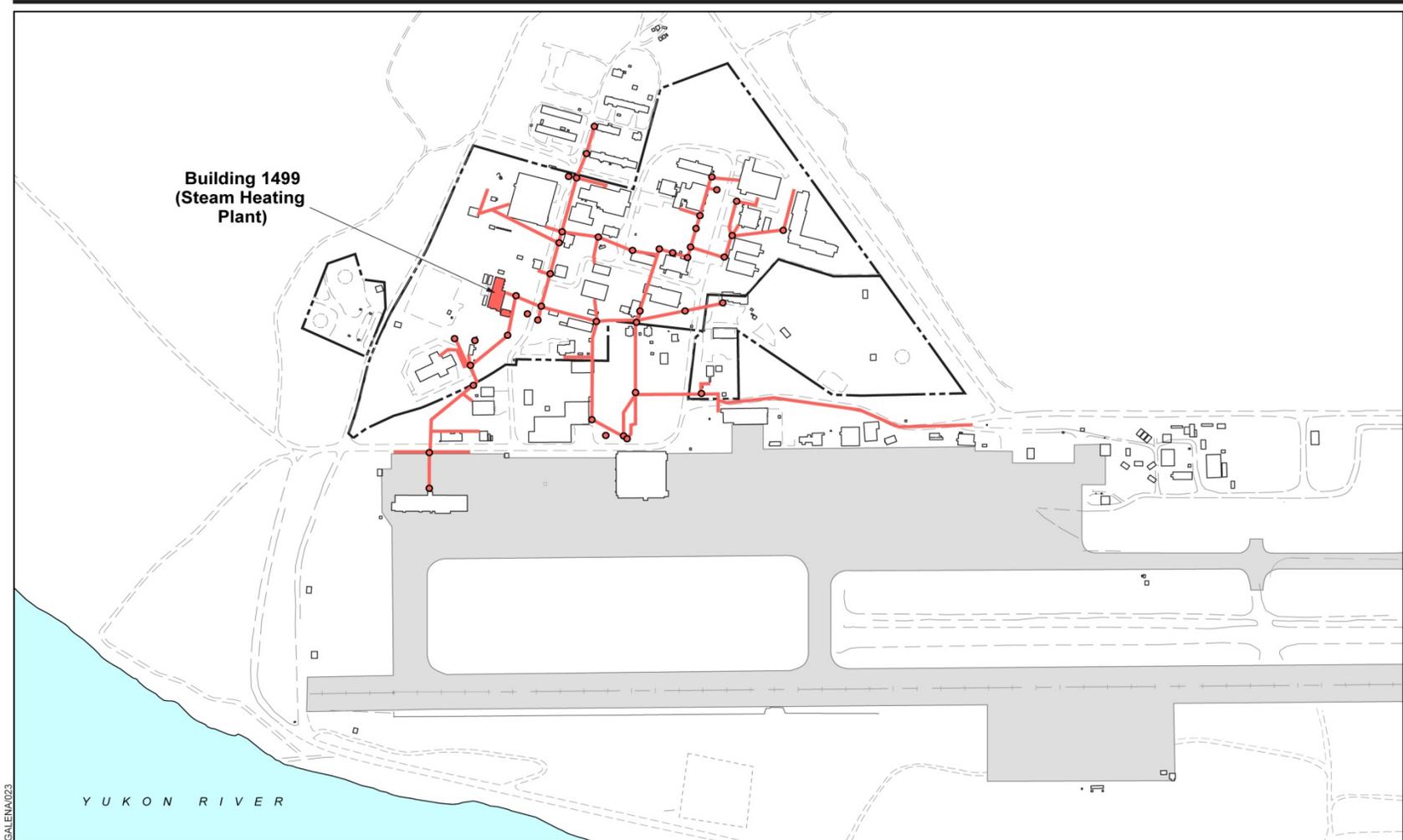
- Sewer Line
- Treatment Area
- Access Cover
- Septic System



Note: Sanitary sewer system has been transferred to the City of Galena.

**Sanitary Sewer System
Galena Airport**

Figure 3-3



EXPLANATION

- Steam Cover
- Access Hole



Note: Steam heating system has been transferred to the City of Galena.

**Steam Heating System
Galena Airport**

Figure 3-4

3.3.1 Hazardous Substances

3.3.1.1 Hazardous Materials Management.

Management of hazardous material at Air Force buildings at Galena Airport was conducted in accordance with applicable Air Force requirements, including AFI 32-7086, *Hazardous Materials Management*; U.S. EPA requirements for spill prevention, control, and countermeasures plans; Emergency Planning and Community Right-to-Know Act (EPCRA); and Occupational Safety and Health Administration (OSHA) requirements.

Air Force buildings at Galena Airport received and stored small quantities of hazardous materials, including a variety of janitorial supplies, paints, adhesives, solvents, antifreeze, deicing fluid, Freon, and batteries. Most of these materials were stored in small quantities, generally less than 5 gallons or 10 pounds. Supplies either arrived by barge during the summer months or by aircraft year round. Installation records were reviewed to identify quantities and types of hazardous materials stored in Air Force buildings. Hazardous materials are not currently used or stored within Building 1428. Small quantities of hazardous materials (i.e., paints, adhesives, lubricants, and compressed gases) are currently stored within Building 1568 in support of Air Force remedial investigations/actions. Appendix D provides an inventory of hazardous materials stored in Air Force buildings at Galena Airport. No evidence of improper storage of hazardous materials was identified during the records search and VSI; therefore, Air Force buildings that store/stored hazardous materials are considered Category 1 with regards to hazardous materials.

Past releases of hazardous materials are addressed under Section 3.3.5, Environmental Restoration Program Sites.

3.3.1.2 Hazardous Waste Management.

The federal government issued regulations for hazardous waste management in RCRA in 1976. In general, hazardous waste includes substances that, because of their quantity; concentration; or physical, chemical, or infectious characteristics, may present substantial danger to public health or the environment when released to the environment.

Activities at Air Force buildings at Galena Airport complied with federal and state requirements through implementation of a hazardous waste management plan. Wastes typically generated at Air Force buildings included waste fuels, used oil, antifreeze, hydraulic fluid, fluorescent tubes, waste paint, and batteries. Hazardous waste is not currently generated or stored within Buildings 1428 or 1568; therefore, the Air Force does not maintain a hazardous waste management plan for activities at these buildings. A bermed and lined drum storage area is situated within the Building 1568 compound for storage of Investigative Derived Waste (IDW) from ongoing Air Force remedial investigations/actions.

A satellite accumulation point was located in Building 1428 when it was in operation (Chugach Support Services, 2006b). No evidence of improper storage of hazardous waste was identified; therefore, buildings that generated and/or stored hazardous waste at Galena Airport are considered Category 1 with regards to hazardous waste.

Past releases of hazardous waste are addressed under Section 3.3.5, Environmental Restoration Program Sites.

3.3.2 Petroleum Products

Air Force buildings at Galena Airport received and stored a variety of petroleum products, including fuels, engine oils, and lubricating oils. Jet propulsion fuel, grade 8 (JP-8) and diesel fuel arrived by barge and was transferred by pipeline for storage in bulk storage tanks since it was used in large quantities. Diesel Fuel, grade 8 (DF-8), which is downgraded JP-8 and used as diesel fuel, was transferred from storage tanks to the heating plant by pipeline. Unleaded gasoline was obtained locally and transferred to tanks by a tank truck (U.S. Air Force, 2004a). Most other petroleum products are used in smaller quantities and typically arrived in 55-gallon drums or smaller containers via aircraft. Small quantities of lubricants are stored within Building 1568 in support of Air Force remedial investigations/actions. Petroleum products are not used or stored at Building 1428. No evidence of improper storage of petroleum products was identified during the records search and VSI; therefore, Air Force buildings that store/stored petroleum products are considered Category 1 with regards to petroleum products.

The Air Force maintained an Oil Discharge Prevention and Contingency Plan (ODPCP) for associated Air Force operations at Galena Airport in accordance with the Oil Pollution Act of 1990. The ODPCP addressed operational and environmental issues pertaining to Air Force buildings at Galena Airport relating to the prevention and control of oil discharges that may result from operations at the buildings. The prevention of oil discharges was considered the highest priority during fuel operations at Air Force buildings. In the event of an oil discharge, response actions were aimed at ensuring the safety of response personnel and minimizing environmental harm (U.S. Air Force, 2004a).

Storage and releases of petroleum products related to storage tanks are addressed under Section 3.3.3, Storage Tanks. Past releases of petroleum products are addressed under Section 3.3.5, Environmental Restoration Program Sites.

3.3.3 Storage Tanks and Related Systems

The U.S. EPA has issued federal regulations related to USTs in 40 Code of Federal Regulations (CFR) Parts 280 and 112. ASTs are subject to regulation under the Clean Water Act (CWA) (33 U.S.C. Sections 1251-1578) and the Oil Pollution Act (specifically, 40 CFR Part 112). The operation and construction of ASTs is subject to National Fire Protection Association fire codes and the Uniform Fire Code. The Air Force maintained an ODPCP, which established

responsibilities and provided prevention guidelines, as well as contingency plans, for use in the event of a release.

The following sections describe the findings for ASTs and USTs based on the records search and VSI. An overview of pipelines, hydrant fueling, and fuel transfer systems is also provided.

3.3.3.1 Aboveground Storage Tanks.

Sixty-eight ASTs have been identified as being used at Galena Airport. These ASTs are/were used for the storage of JP-8, aviation gasoline (AVGAS), diesel fuel, motor gasoline (MOGAS), used oil, ethylene glycol, deicing fluid, and water. ASTs (excluding the water tank) are double-walled or utilized concrete or earthen berms for secondary containment.

Of the two remaining Air Force buildings, Building 1428 is the only one that utilized ASTs. Two inactive DF-8 ASTs are associated with Building 1428. Two inactive used oil ASTs are stored within the compound where Building 1568 is situated (these ASTs were relocated to the compound from the storage yard at Building 1850).

There are 64 ASTs associated with buildings that the Air Force has transferred to the City of Galena or other interested entities. Twenty-five ASTs are active. Seventeen store diesel fuel, three store JP-8, two store deicing fluid, one stores MOGAS, one stores ethylene glycol, and one stores water. Nine ASTs are inactive; four of these ASTs stored AVGAS, one stored diesel fuel, two stored used oil, one stored MOGAS, and one stored JP-8. Thirty ASTs have been removed from service; nineteen of these ASTs stored diesel fuel and eleven stored MOGAS. ASTs at Galena Airport are listed in Table 3-2 and their locations are shown on Figure 3-5.

The ASTs associated with Facility 1880 (20 removed and 5 inactive) were situated within the POL yard, which is being investigated under the ERP as Site ST005 (POL Tank Farm) and SS005 (Wilderness Hall); because these ASTs stored petroleum products, they are considered Category 2. The two ASTs at Building 2000 are attached to diesel generators within the structure. Evidence of petroleum staining was noted within the building; therefore, these ASTs are considered Category 2. The AST in the storage yard of Building 1768 and the AST in the storage yard of Building 1850 are inactive and have the potential for past releases; therefore, these ASTs are also considered Category 2. Based upon the methodology presented in Chapter 2, no documentation or evidence of a release was identified at the other AST locations; therefore, they are considered Category 1.

3.3.3.2 Underground Storage Tanks.

Thirty-two USTs have been identified as being used (or suspected of being used) at Galena Airport. These USTs were used for storing JP-8, diesel fuel, gasoline, used oil, heating oil, and drain water. USTs at Galena Airport are listed in Table 3-3 and their locations are shown on Figure 3-6.

Table 3-2. Aboveground Storage Tanks

Page 1 of 3

Building ID	Parcel	Building Name	Tank ID	Contents	Capacity (gallons)	Status	Years of Operation	Category
ASTs Associated with Air Force Buildings								
1428	Parcel P	Alert Hangar	--	DF-8	275	Inactive	Unknown - Present	1
1428	Parcel P	Alert Hangar	--	DF-8	25	Inactive	Unknown - Present	1
1568	Parcel W	Former RAPCON	--	Used Oil	1,000	Inactive	Unknown - 2004	1
1568	Parcel W	Former RAPCON	--	Used Oil	1,000	Inactive	Unknown	1
ASTs Associated with Former Air Force Buildings								
1404	Block 12, Lot 4	Former Control Tower	--	DF-8	500	Removed	1986 - 2007	1
1404	Block 12, Lot 4	Former Control Tower	--	DF-8	25	Removed	Unknown - 2007	1
1499	Parcel O	Power Plant	--	DF-8	300	Active	2006 - Present	1
1499	Parcel O	Power Plant	--	DF-8	300	Active	Unknown - Present	1
1499	Parcel O	Power Plant	1499-1	Ethylene Glycol	500	Active	Unknown - Present	1
1499 ^(a)	Parcel O	Power Plant	--	DF-8	30,000	Active	Unknown - Present	1
1499 ^(a)	Parcel O	Power Plant	--	DF-8	30,000	Active	Unknown - Present	1
1499	Parcel O	Power Plant	--	DF-8	300	Removed	Unknown - 2006	1
1499	Parcel O	Power Plant	--	DF-8	300	Removed	Unknown - 2006	1
1499	Parcel O	Power Plant	--	DF-8	300	Removed	Unknown - 2006	1
1499	Parcel O	Power Plant	--	DF-8	300	Removed	Unknown - 2006	1
1552	Block 10, Lot 6	Airfield Utility Vault	1552-1	DF-8	1,000	Active	Unknown - Present	1
1552	Block 10, Lot 6	Airfield Utility Vault	1552-2	DF-8	175	Active	Unknown - Present	1
1569	Parcel W	Electric Power Station	1569-1	DF-8	275	Active	1984 - Present	1
1572	Block 8, Lot 11	Liquid Fuel Pump Station	--	JP-8	300	Active	Unknown - Present	1
1573	Block 8, Lot 14	Vehicle Maintenance Shop	--	DF-8	400	Active	Unknown	1
1573	Block 8, Lot 14	Vehicle Maintenance Shop	59	DF-8	8,000	Active	Unknown	1
1573	Block 8, Lot 14	Vehicle Maintenance Shop	--	Diesel	2,500	Removed	1995 - Unknown	1
1573	Block 8, Lot 14	Vehicle Maintenance Shop	--	Diesel	2,500	Removed	1995 - Unknown	1
1578	Block 8, Lot 8	Water Treatment Plant	--	DF-8	500	Active	Unknown - Present	1
1578	Block 8, Lot 8	Water Treatment Plant	--	Water	100,000	Active	Unknown - Present	1
1578	Block 8, Lot 8	Water Treatment Plant	--	MOGAS	500	Removed	1956 - Unknown	1
1719 ^(a)	Parcel R	Liquid Fuel Pump Station	41	JP-8	420,000	Active	Unknown - Present	1

Table 3-2. Aboveground Storage Tanks

Page 2 of 3

Building ID	Parcel	Building Name	Tank ID	Contents	Capacity (gallons)	Status	Years of Operation	Category
1719 ^(a)	Parcel R	Liquid Fuel Pump Station	42	JP-8	756,000	Inactive	Unknown	1
1768	Parcel O	Hazardous Waste Storage Shed	--	Used Oil	15,000	Inactive	Unknown	2
1772	Parcel O	Electric Power Station	--	Diesel	275	Removed	1986 - Unknown	1
1850	Block 8, Lot 5	Maintenance Shop	--	Used Oil	1,100	Inactive	2004 - Present	2
1854	Block 3	Headquarters Building	--	DF-8	1,000	Active	2006 - Present	1
1854	Block 3	Headquarters Building	56	DF-8	275	Active	Unknown - Present	1
1859	Block 3	Dining Facility	--	DF-8	3,000	Active	Unknown - Present	1
1859	Block 3	Dining Facility	--	DF-8	100	Active	Unknown - Present	1
1875	Parcel W	Communications Transmitter	--	DF-8	275	Inactive	1984 - Present	1
1879 ^(a)	Parcel W	Tank 44	44	JP-8	1,800,000	Active	1996 - Present	1
1880	Parcel W	Former Tank Farm	1	MOGAS	25,000	Removed	1953 - Unknown	2
1880	Parcel W	Former Tank Farm	2	MOGAS	25,000	Removed	1953 - Unknown	2
1880	Parcel W	Former Tank Farm	3	MOGAS	25,000	Removed	1953 - Unknown	2
1880	Parcel W	Former Tank Farm	4	MOGAS	25,000	Removed	1953 - Unknown	2
1880	Parcel W	Former Tank Farm	5	MOGAS	25,000	Removed	1953 - Unknown	2
1880	Parcel W	Former Tank Farm	6	MOGAS	25,000	Removed	1953 - Unknown	2
1880	Parcel W	Former Tank Farm	7	MOGAS	25,000	Removed	1953 - Unknown	2
1880	Parcel W	Former Tank Farm	8	MOGAS	25,000	Removed	1953 - Unknown	2
1880	Parcel W	Former Tank Farm	9	Diesel	25,000	Removed	1977 - Unknown	2
1880	Parcel W	Former Tank Farm	10	MOGAS	25,000	Removed	1977 - Unknown	2
1880	Parcel W	Former Tank Farm	11	MOGAS	25,000	Removed	1977 - Unknown	2
1880	Parcel W	Former Tank Farm	12	MOGAS	25,000	Inactive	1977 - Unknown	2
1880	Parcel W	Former Tank Farm	13	AVGAS	25,000	Inactive	1977 - 1993	2
1880	Parcel W	Former Tank Farm	14	AVGAS	25,000	Inactive	1977 - 1993	2
1880	Parcel W	Former Tank Farm	15	AVGAS	25,000	Inactive	1977 - 1993	2
1880	Parcel W	Former Tank Farm	16	AVGAS	25,000	Inactive	1977 - 1993	2
1880	Parcel W	Former Tank Farm	25	Diesel	50,000	Removed	Unknown	2
1880	Parcel W	Former Tank Farm	26	Diesel	50,000	Removed	Unknown	2
1880	Parcel W	Former Tank Farm	27	Diesel	50,000	Removed	Unknown	2
1880	Parcel W	Former Tank Farm	28	Diesel	50,000	Removed	Unknown	2
1880	Parcel W	Former Tank Farm	29	Diesel	50,000	Removed	Unknown	2
1880	Parcel W	Former Tank Farm	30	Diesel	50,000	Removed	Unknown	2

Table 3-2. Aboveground Storage Tanks
Page 3 of 3

Building ID	Parcel	Building Name	Tank ID	Contents	Capacity (gallons)	Status	Years of Operation	Category
1880	Parcel W	Former Tank Farm	31	Diesel	50,000	Removed	Unknown	2
1880	Parcel W	Former Tank Farm	32	Diesel	50,000	Removed	Unknown	2
1880	Parcel W	Former Tank Farm	33	Diesel	50,000	Removed	Unknown	2
1881 ^(a)	Parcel W	Vehicle Fueling Station	1881-1	Diesel	15,000	Active	1996 - Present	1
1881 ^(a)	Parcel W	Vehicle Fueling Station	1881-2	MOGAS	30,000	Active	1996 - Present	1
2000	NA	Storm Drain Pump Station	--	Diesel	100	Active	Unknown - Present	2
2000	NA	Storm Drain Pump Station	--	Diesel	100	Active	Unknown - Present	2
77506	Block 8, Lot 9B	Deicing Storage	39	Deicing Fluid	50,000	Active	1966 - Present	1
77506	Block 8, Lot 9B	Deicing Storage	40	Deicing Fluid	50,000	Active	1966 - Present	1

Note: Inactive ASTs have had their contents removed and are no longer in service.

(a) Regulated AST

- = no AST ID available
- AST = aboveground storage tank
- AVGAS = aviation gasoline
- DF-8 = diesel fuel, grade 8
- JP-8 = jet propulsion fuel, grade 8
- MOGAS = motor gasoline
- NA = not applicable, AST location is not within an Air Force leased parcel
- RAPCON = Radar Approach Control

Sources: AECOM, 2009; U.S. Air Force, 1996d, 1996f, 2003a, 2006c, 2007a, and 2008.

Of the two remaining Air Force buildings, Building 1428 is the only one that utilized USTs. Three diesel USTs at Building 1428 were abandoned in place. The location of these USTs was confirmed in 2009 using ground penetrating radar. Because these USTs stored diesel fuel and their condition and closure status is suspect, they are considered Category 2.

There are 29 USTs associated with buildings that the Air Force has transferred to the City of Galena or other entities. Two JP-8 USTs at Building 1713 have been closed in place. The USTs (Tanks 37 and 38) are 1,200,000 gallons each and are situated in the area being investigated as ERP Site CG001 (Million Gallon Hill); therefore, these USTs are considered Category 2. Four UST locations have an unknown status. These locations are suspected of containing diesel USTs based on the function and description of the building that has been modified/demolished; however, confirmation of their existence has not yet been determined. These suspect UST locations are considered Category 2.

Twenty-three USTs have been removed. These removed USTs are considered Category 2 because results of sampling during tank removal activities identified varying concentrations of petroleum contamination in the surrounding soils and appropriate closure documentation has not yet been completed.

Table 3-3. Underground Storage Tanks

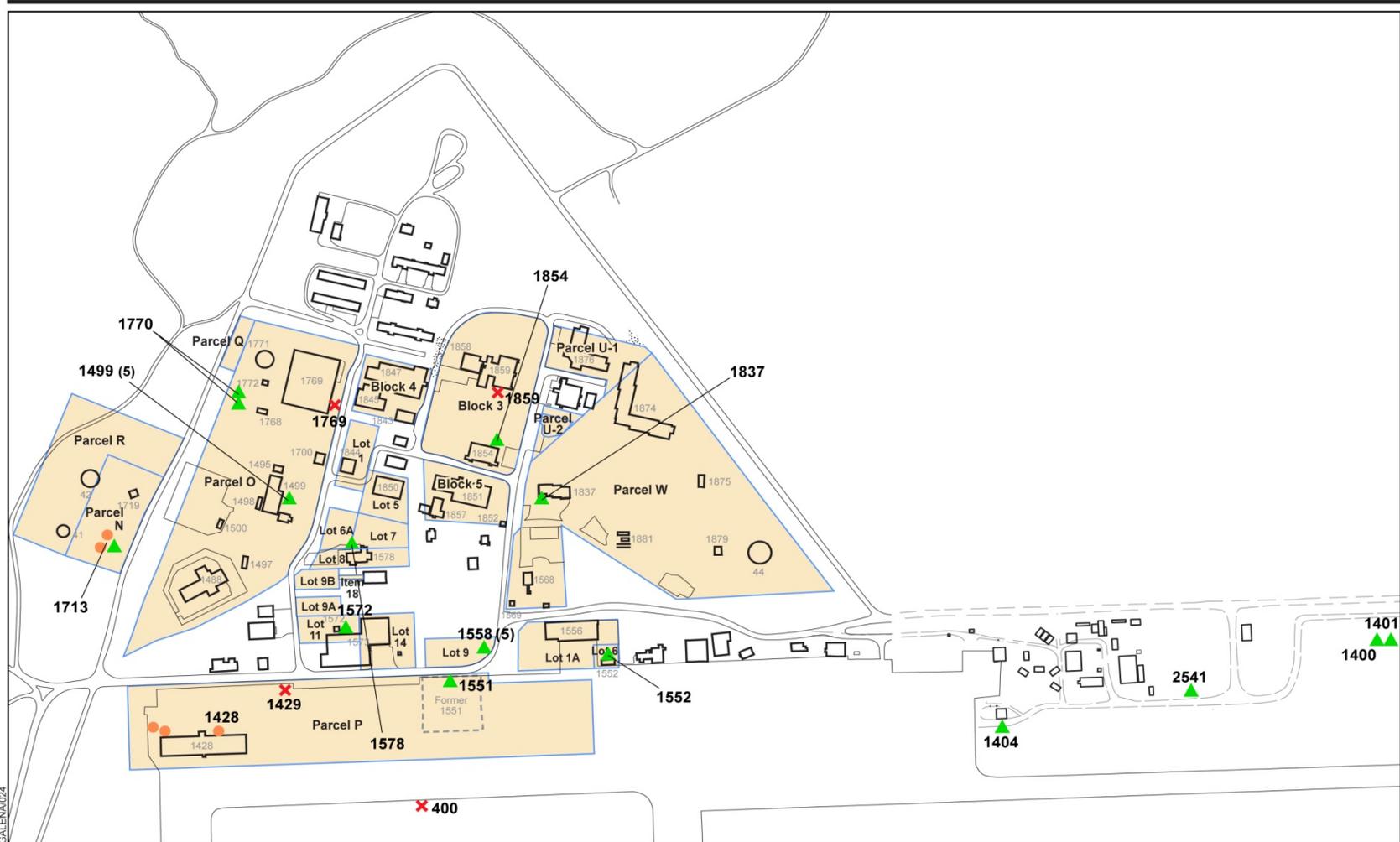
Building ID	Parcel	Building Name	Tank ID	Contents	Capacity (gallons)	Status	Years of Operation	Category
USTs Associated with Air Force Buildings								
1428	Parcel P	Alert Hangar	1428B	Diesel	10,000	Abandoned ^(a)	Unknown	2
1428	Parcel P	Alert Hangar	1428-1	Diesel	10,000	Abandoned ^(a)	Unknown - 1985	2
1428	Parcel P	Alert Hangar	1428-2	Diesel	10,000	Abandoned ^(a)	Unknown - 1992	2
USTs Associated with Former Air Force Buildings								
400	Parcel F	Former Weather Station	--	Diesel	Unknown	Unknown	Unknown	2
1400	NA	Former Ammunition Storage	1400	Fuel Oil	1,700	Removed	Unknown - 1993	2
1401	NA	Former Ammunition Storage	1401	Fuel Oil	1,700	Removed	Unknown - 1993	2
1404	Block 12, Lot 4	Former Control Tower	1404-2	Diesel	500	Removed	Unknown - 1992	2
1429	Parcel P	Former Guard Shack	--	Diesel	Unknown	Unknown	Unknown	2
1499	Parcel O	Power Plant	46	Diesel	25,000	Removed	1945 - 1997	2
1499	Parcel O	Power Plant	47	Diesel	25,000	Removed	1945 - 1997	2
1499	Parcel O	Power Plant	48	Diesel	12,000	Removed	1945 - 1997	2
1499	Parcel O	Power Plant	49	Diesel	12,000	Removed	1945 - 1997	2
1499	Parcel O	Power Plant	1499-4	Diesel	Unknown	Removed	Unknown - 1997	2
1551	Parcel P	Former Birchwood Hangar	1551-1	Diesel	500-700	Removed	1968 - 1997	2
1552	Block 10, Lot 6	Airfield Utility Vault	1552	Diesel	2,000	Removed	1962 - 1997	2
1558	Block 9, Lot 9	Former Power House	1558-1	Diesel	Unknown	Removed	Unknown	2
1558	Block 9, Lot 9	Former Power House	1558-2	Diesel	Unknown	Removed	Unknown	2
1558	Block 9, Lot 9	Former Power House	1558-3	Diesel	Unknown	Removed	Unknown	2
1558	Block 9, Lot 9	Former Power House	1558-4	Diesel	Unknown	Removed	Unknown	2
1558	Block 9, Lot 9	Former Power House	1558-5	Diesel	Unknown	Removed	Unknown	2
1572	Block 8, Lot 11	Liquid Fuel Pump Station	1572	Diesel	3,000	Removed	Unknown - 1998	2
1578	Block 8, Lot 8	Water Treatment Plant	1578-3	Gasoline	500	Removed	Unknown - 1997	2
1713	Parcel N	Pump Station	43	Drain Water	2,000	Removed	1957 - 1997	2
1713	Parcel N	Pump Station	37	JP-8	1,200,000	Closed in place ^(a)	1957 - 1997	2
1713	Parcel N	Pump Station	38	JP-8	1,200,000	Closed in place ^(a)	1957 - 1997	2
1769	Parcel O	Supply Warehouse	--	Diesel	Unknown	Unknown	1856-1970	2
1770	Parcel O	Former Incinerator	1770-1	Fuel Oil	1,000	Removed	1974 - 1997	2
1770	Parcel O	Former Incinerator	1770-2	Used Oil	1,000	Removed	1974 - 1997	2
1837	Parcel W	Petroleum Operations Building	1837	Used Gas and Oil	2,000	Removed	Unknown - 1998	2
1854	Block 3	Headquarters Building	1854	Diesel	2,000	Removed	1986 - 1998	2
1859	Block 3	Dining Hall	--	Diesel	Unknown	Unknown	Unknown	2
2541	NA	Former Petroleum Operations Building	2541	Used Petroleum	1,500	Removed	Unknown - 1998	2

Note: (a) "Abandoned" USTs are no longer in service but have not been removed/closed out; "Closed-in-place" USTs are no longer in service and have been closed in accordance with applicable regulations.

All tanks meet the definition of a UST in Title 18 of the Alaska Annotated Code and were required to be registered with the State of Alaska.

- = no UST ID available
- JP-8 = jet propulsion fuel, grade 8
- NA = not applicable, UST location I not within an Air Force parcel
- UST = underground storage tank

Sources: Alaska Department of Environmental Conservation, 2006; AECOM, 2009; U.S. Air Force, 1996d, 1996f, 2006d, 2007a, and 2008.



EXPLANATION

- Air Force Property
- UST - abandoned in place
- UST - removed
- UST - unknown

0 175 350 700 Feet

Note: All USTs have been removed except for two at former Facility 1713 (both closed in place) and three abandoned USTs at Building 1428.

Underground Storage Tank Locations

Figure 3-6

3.3.3.3 Fuel Pipeline Systems.

The existing liquid fuel pipeline system originates at the barge load/unload area at the east end of the City of Galena (Figure 3-7). The steel, underground pipeline runs east to west just south of the runway, turns north at the western end of the runway, and terminates at Tanks 41 and 42 on Million Gallon Hill. From this location, a pipeline runs across the airport cantonment to Tank 44, Building 1499, and filling stands near Building 1572. There is approximately 22,400 linear feet of pipeline that was installed in 1953. The pipeline was pressure tested in 2008; no signs of leakage were identified. The pipeline is considered Category 1.

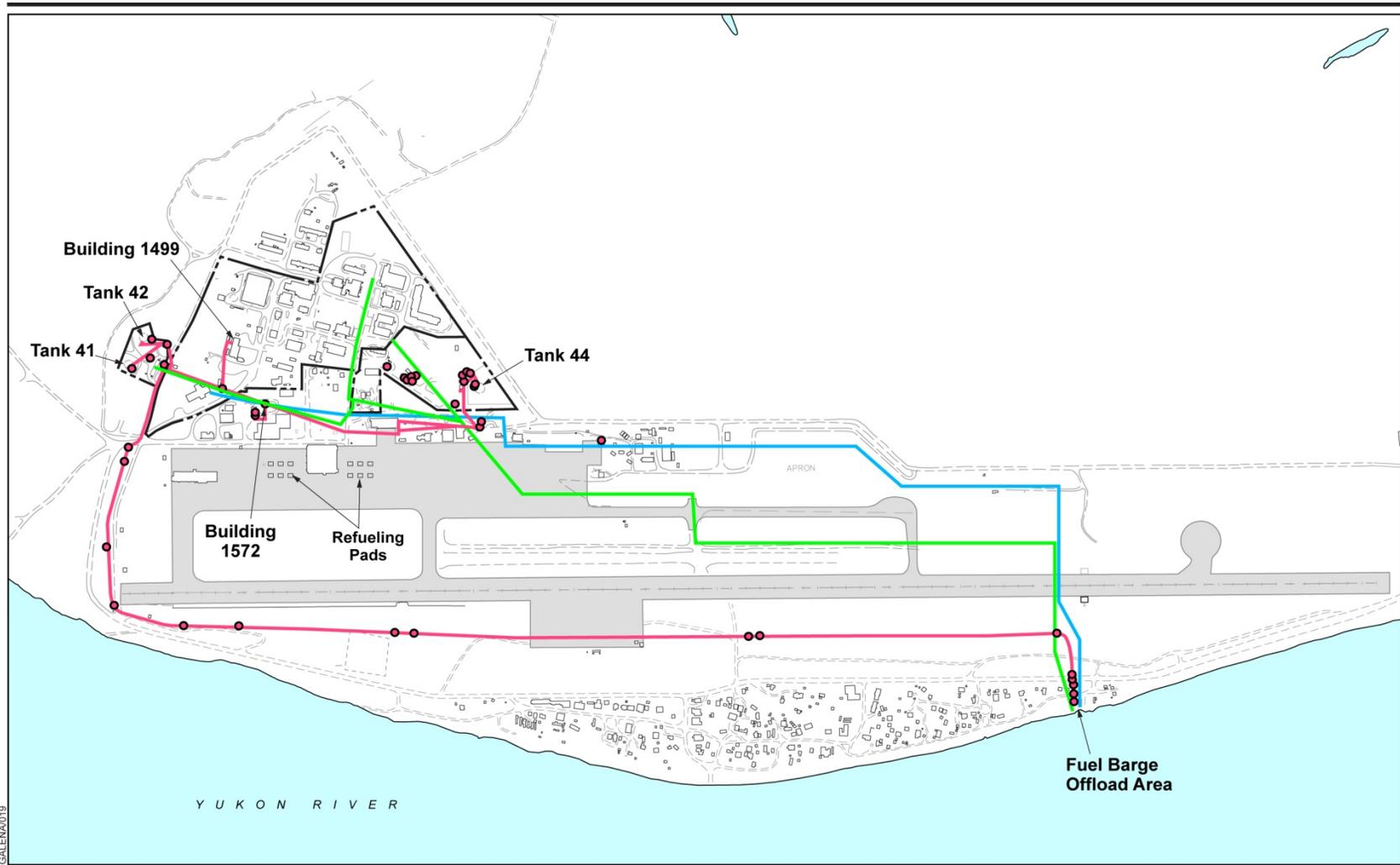
In April 2006, drillers installing a test well north of the air commercial service area nicked the pipeline causing a release of 47 gallons of JP-8. As part of the spill response, the area around the pipeline was excavated; contaminated soil was collected in 55 gal drums and disposed. Permanent repair to the line has been accomplished. The spill site area is considered Category 2.

ERP Site ST003 (POL Fuel Line Leak) is situated north of the former control tower. In the mid 1960s the transfer pipeline from the barge load/unload area leaked diesel fuel at this site. An estimated 20,000-30,000 gallons leaked. Investigation of the site determined that contamination is not likely to pose a risk to human health or the environment. A Draft No Further Response Action Planned (NFRAP) decision document was submitted in October 2005. Because Alaska Department of Environmental Conservation (ADEC) concurrence with NFRAP has not yet been received, this site is considered Category 2.

ERP Site ST010 is located south of the airstrip and includes a shallow ditch that runs roughly parallel to the runway. A release of diesel fuel from the pipeline reportedly occurred here in 1984. Bioventing was conducted at the site for 9 months in 1996. This site is considered Category 2.

Based on a review of historic aerial photographs and historic maps of former Galena FOL, several abandoned fuel pipeline systems and a hydrant fueling system for aircraft have been identified (see Figure 3-7 and Appendix F). These abandoned pipeline systems include:

- On a 1962 map of the installation there are two pipelines that run from the current barge load/unload area, north across the runway, then west immediately after crossing the runway, and onto the POL yard; there is also a pipeline beneath the main road on former Galena FOL that leads up to Building 1859
- On a 1952 map of the installation, there is a pipeline that runs from the current barge load/unload area, north across the runway up to the dike road, then west to the POL Yard



GALENA019

EXPLANATION

- Fuel Pipeline (active)
- Former Fuel Pipeline (1952)
- Former Fuel Pipeline (1962)



Note: The active liquid fuel pipeline system has been transferred to the City of Galena.

Liquid Fuel Pipeline Systems

Figure 3-7

- On several historic aerial photographs and maps, aircraft refueling pads (six refueling pads east of and six refueling pads west of former Birchwood Hangar) are visible. There is no visible evidence of the refueling pads on the surface; however, the presence of underground piping serving the six aircraft refueling pads east of former Birchwood Hangar were confirmed in 2009 using ground penetrating radar.

The nature and extent of any contamination associated with the abandoned pipeline systems and aircraft refueling pads is being evaluated and has not yet been defined. Because the pipelines and aircraft refueling pads conveyed petroleum products, they are considered Category 2.

3.3.4 Treatment Systems and Components

3.3.4.1 Oil/Water Separators.

Neither of the remaining Air Force buildings (Buildings 1428 and 1568) utilized OWSs.

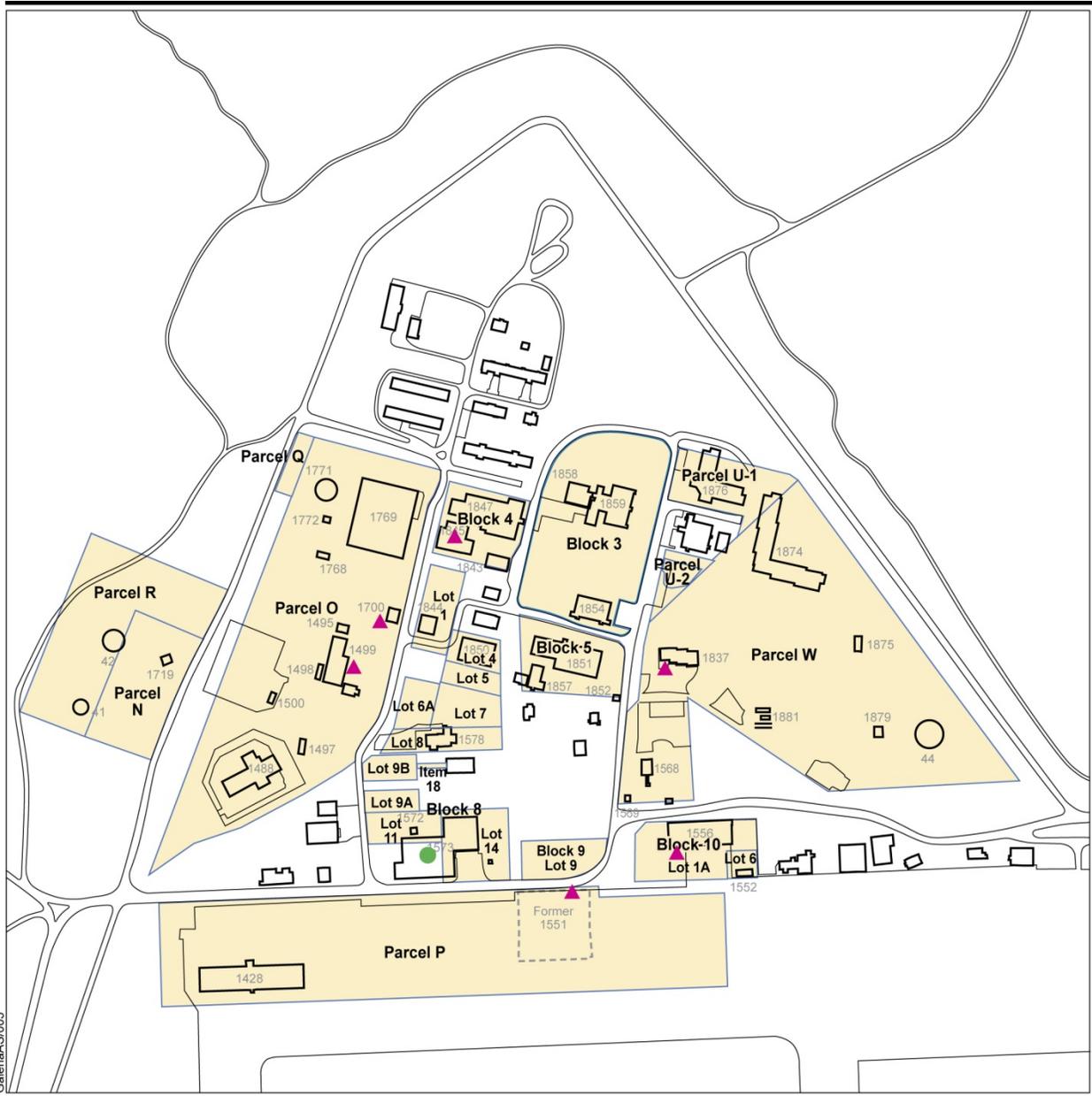
Seven OWSs have been identified as being used at former Air Force buildings at Galena Airport (Table 3-4). Sludge accumulation within OWSs was removed on an as needed basis and disposed as hazardous waste. Buildings where OWSs are/were utilized are shown on Figure 3-8. The only active OWS is at Building 1573. Floor drains within Building 1573 direct wastewater to sediment traps, which in turn discharge to the OWS. The contents of the OWS are pumped from the sump pit into collection drums for disposal. Although no evidence of a release was identified for this OWS, the integrity of the OWS cannot be confirmed without sampling; therefore, the OWS is considered Category 7.

Table 3-4. Oil/Water Separators

Building ID	Parcel	Building Name	Tank ID	Contents	Capacity (gallons)	Status	Years of Operation	Category
1499	Parcel O	Power Plant	1499-3	Oil/Water	100	Removed	1970 - 1997	7
1551	Parcel P	Former Birchwood Hangar	--	Oil/Water	100	Abandoned	Unknown - 1993	7
1556	Block 10, Lot 1A	Fire Station	1556-2	Oil/Water	300	Removed	1973 - 1997	7
1573	Block 8, Lot 14	Vehicle Maintenance Shop	--	Oil/Water	500	Active	1995 - Present	7
1700	Parcel O	Refueling Vehicle Maintenance Shop	1700-1	Oil/Water	300	Removed	1963 - 1997	7
1837	Parcel W	Petroleum Operations Building	--	Oil/Water	500	Removed	1984 - 2001	7
1845	Block 4	Vehicle Maintenance Shop	1845	Oil/Water	110	Removed	1959 - 1996	7

-- = no OWS ID available

Sources: AECOM, 2009; U.S. Air Force, 1996d, 2006d, 2008; U.S. Army Center for Health Promotion and Preventative Medicine, 2003.



EXPLANATION

-  Installation Fenceline
-  Air Force Property
-  Active OWS
-  Removed/Abandoned OWS

Oil/Water Separator Locations

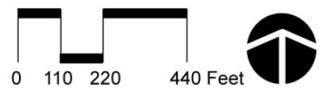


Figure 3-8

OWSs that were used at Buildings 1499, 1556, 1700, 1837, and 1845 have been removed. Sampling around these OWSs at the time of removal identified varying levels of contaminants (e.g., benzene, Gasoline Range Organics (GRO), and Diesel Range Organics [DRO]) in the soil. However, there may be other contaminants of potential concern (e.g., solvents, metals) present from past OWS use. Therefore, these OWS are considered Category 7.

Although Building 1551 (former Birchwood Hangar) has been demolished, the OWS at this building remains in the foundation. Because the integrity of the OWS has not been confirmed, this OWS location is considered Category 7.

3.3.4.2 Septic Tank Systems.

The former Control Tower (Building 1404) and the former guard shack for the munitions storage building utilized septic tank systems. The tank for the guard shack discharged to a leach field nearby. The tank at the former Control Tower was used as a holding tank and was pumped out by the City of Galena for treatment at the sewage treatment lagoon (U.S. Air Force, 1996d). The former weather station (Building 400) used a wood crib cesspool for sewage disposal (U.S. Air Force, 1996d). Based on the types of operations at these buildings, improper discharge to these systems is not anticipated; therefore, these septic tank locations are considered Category 1.

3.3.4.3 Grease Traps.

One grease trap, located at Building 1859, was identified (Earth Tech, 2006). Based on the types of operation (food preparation) at this building, improper discharge to the grease trap is not anticipated; therefore, this grease trap location is considered Category 1.

3.3.5 Environmental Restoration Program Sites

The ERP was established to identify, characterize, and remediate CERCLA-related contamination on Air Force installations. The program is designed to evaluate past disposal sites, control the migration of contaminants, and control potential hazards to human health and the environment.

The ERP at Galena Airport has been established as the mechanism for the CERCLA (42 U.S.C. Section 9601) process, incorporating applicable RCRA and state regulations, as well as meeting requirements of the National Oil and Hazardous Substance Pollution Contingency Plan (40 CFR Part 300). To ensure compliance with CERCLA regulations, the ERP was implemented to identify potentially contaminated sites, investigate those sites, and evaluate and select remedial actions.

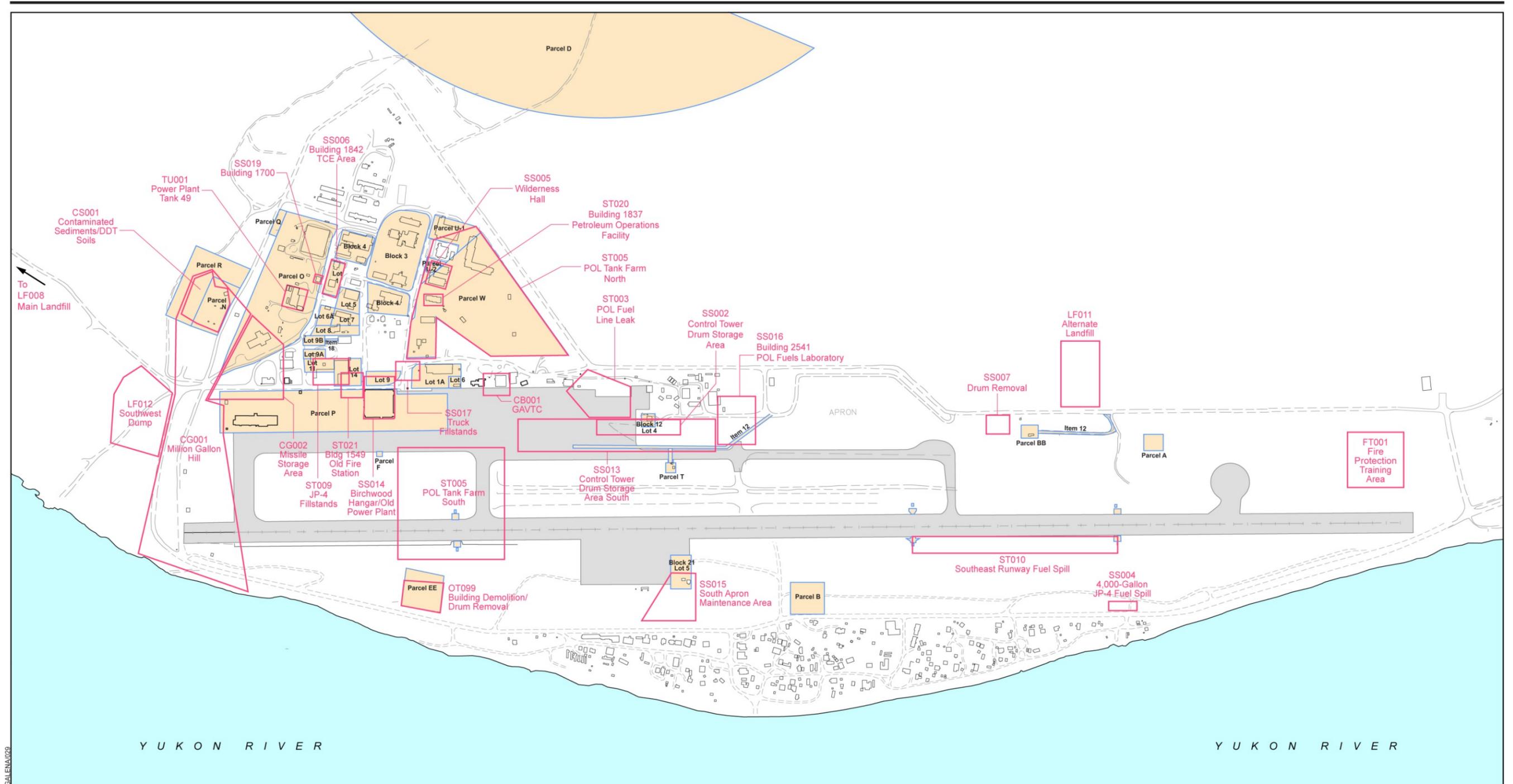
Environmental Restoration Program Sites. There have been several investigations of the environmental condition of Air Force property at Galena Airport. ERP sites identified at Galena Airport are listed below and are shown on Figure 3-9:

- CB001 - Galena Aviation Vocational Technical Center
- CG001 - Million Gallon Hill
- CG002 - Missile Storage Area
- CS001 - Contaminated Sediments/DDT Soils
- FT001 - Fire Protection Training Area
- LF008 - Main Landfill
- LF011 - Alternate Landfill
- LF012 - Southwest Dump
- OT099 - Building Demolition/Drum Removal
- SS002 - Control Tower Drum Storage Area
- SS004 - 4,000-gallon JP-4 Fuel Spill
- SS005 - Wilderness Hall
- SS006 - Building 1842 TCE Area
- SS007 - Drum Removal
- SS009 - Road Oiling
- SS013 - Control Tower Drum Storage Area South
- SS014 - Birchwood Hangar/Old Power Plant
- SS015 - South Apron Maintenance Area
- SS016 - Building 2541 POL Fuels Laboratory
- SS017 - Truck Fillstands (northwest of Fire Station)
- SS019 - Building 1700
- ST003 - POL Fuel Line Leak
- ST005 - POL Tank Farm
- ST009 - JP-4 Fillstands
- ST010 - Southeast Runway Fuel Spill
- ST020 - Building 1837 Petroleum Operations
- ST021 - Building 1549 Old Fire Station
- TU001 - Power Plant Tank 49.

In addition to ERP sites identified at Galena Airport, the Air Force is currently conducting a comprehensive Preliminary Assessment/Site Investigation (PA/SI) to identify other potential areas of concern that may be present on properties formerly occupied by the Air Force.

Appendix A, Table A-2 provides individual ERP site descriptions and summarizes the status of the sites:

Category 2 ERP sites include CB001, CG001, CG002, OT099, SS004, SS005, SS019, ST003, ST005, ST009, ST010, ST020, ST021, and TU001 because release of petroleum products has occurred at these sites. The nature and extent of petroleum contaminants at these sites is currently being investigated and has not yet been defined.



EXPLANATION

- ERP Site
- Air Force Property



Note: ERP Site SS009 is not shown, which addresses roads where liquid wastes were applied to control dust.

Environmental Restoration Program Sites

Figure 3-9

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- Category 3 ERP sites include SS007, and SS009 because contaminant concentrations were below action levels and site closure has been approved by ADEC
- Category 4 ERP sites include CS001, LF008, and LF011 because release of hazardous substances had occurred and all removal or remedial actions have been completed. Site closure has been approved by ADEC.
- Category 5 ERP sites include FT001, LF012, and SS016, because remedial actions have been initiated, but are not yet completed. The nature and extent of contaminants at these sites is currently being evaluated and has not yet been defined.
- Category 6 ERP sites include SS002, SS006, SS015, and SS017 because release of hazardous substances has occurred at these sites; however, remedial actions have not yet been implemented. The nature and extent of contaminants at these sites has not yet been defined.

Groundwater Plumes. Several groundwater contamination plumes have been identified at Galena Airport. Site characterization to identify the nature and extent of groundwater contamination is ongoing. These contamination plumes affect the upper aquifer and flow primarily in a south-southwest direction towards the Yukon River. The lower aquifer (where drinking water is drawn from) is not affected by contaminants; however, the water treatment plant maintains an air stripper to provide additional treatment should contaminants (e.g., trichloroethylene [TCE], benzene) be identified during water quality sampling events.

The plumes are a result of past industrial activities (e.g., fuel storage, vehicle and aircraft maintenance, power plant operations, etc.) that occurred at Galena Airport over the years of its operation. Plume delineation is ongoing and evaluations are underway to address the best approach for remediation.

3.3.6 Medical/Biohazardous Waste

Based upon a review of records, VSIs, and interviews, neither of the remaining Air Force buildings at Galena Airport (Buildings 1428 and 1568) stores or generates medical/biohazardous waste. Building 1857 was once the installation medical aid station; however, medical services are no longer provided on site. The specific disposal practices of medical/biohazardous waste generated at Galena Airport is not known. No documentation or evidence of a release of medical/biohazardous waste has been identified for this building; therefore, Building 1857 is considered Category 1 with respect to medical/biohazardous waste.

3.3.7 Ordnance

None of the Air Force buildings at Galena Airport stores ordnance. Ordnance was stored in the Munitions Storage Building (Building 1488). Based on the

Phase II Comprehensive Site Evaluation (CSE) investigation, items that could be present at or near Galena Airport include medium/small caliber ammunition for fighter jet weapons, missiles, flares, and small arms ammunition (which is not considered Munitions and Explosives of Concern [MEC]) (U.S. Army Corps of Engineers, 2009).

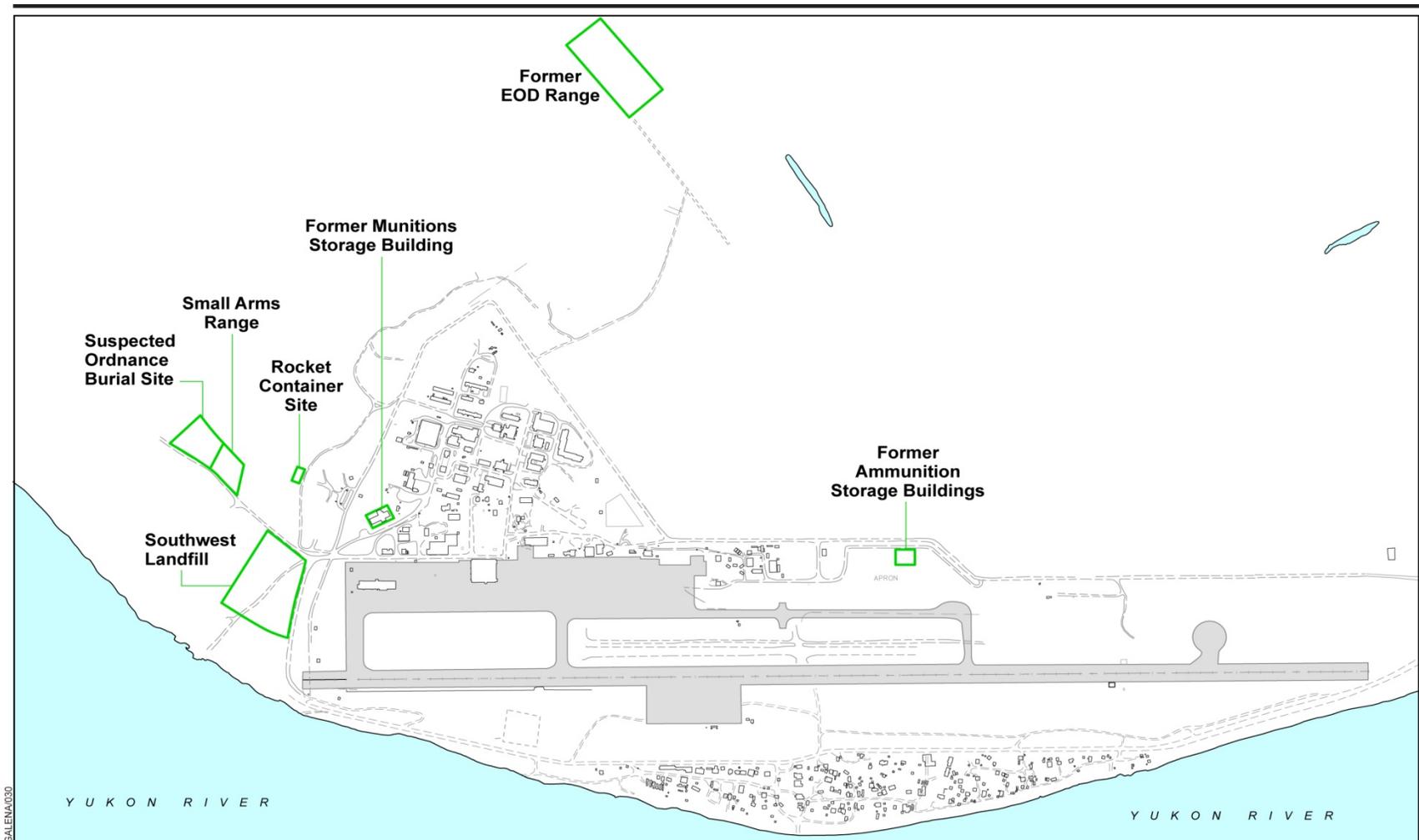
A Munitions Response Area (MRA) is defined as any area on a defense site other than operational range areas that is known or suspected to contain MEC, discarded military munitions (DMM) or munitions constituents (MC). The MRAs identified at or near Galena Airport include:

- Former Explosive Ordnance Disposal (EOD) Range
- Suspected Ordnance Burial Site
- Small Arms Range
- Historical Ordnance Storage Buildings
- Southwest Landfill
- Rocket Container Site (not evaluated within the Phase II CSE).

A summary of the findings for each of the sites is provided below. The locations of the EOD Range, Suspected Ordnance Burial Site, Small Arms Range, Historical Ordnance Storage Buildings, Southwest Landfill, and the Rocket Container Site are depicted on Figure 3-10.

Former EOD Range. The former EOD Range was identified on historic maps of the installation and is located approximately one half mile north of the airport. The former EOD range encompasses approximately 8.5 acres. The site consists of a large disturbed area north of "EOD Road" and a mostly undisturbed area south of the road. Evidence of metallic debris and several drums, some partially buried and some fully exposed were identified. There was no evidence of MEC observed on the site; however, there was evidence of potential use of munitions found in historical records. Surface soil sampling was performed to evaluate whether metals and/or explosive compounds originating from MEC disposal activities that occurred at this site have impacted the environment. Based on the results of surface soil sampling, there were no analytes detected above the most stringent human health screening criteria in any sample. All metals analytes were detected within naturally occurring background concentrations and no explosives analytes were detected. No future response actions were recommended at this site.

Suspected Ordnance Burial Site. The Suspected Ordnance Burial Site was identified in 1993. An aerial photo from 1963 shows a small disturbed area on the west side of the Small Arms Range within the boundaries of the suspected burial site. This area is also within the boundaries of the Southwest Landfill. The site encompasses approximately 3.5 acres and appears on aerial photos from 1963 as a small disturbed area possibly used as a burial site for non-munitions debris. This site is now covered by thick brush. A visual survey of the site identified numerous partially buried and exposed non-munitions-related metal debris. There was no evidence of MEC observed. In addition, there was no evidence of munitions burial found in historical records. No future response actions were recommended at this site.



EXPLANATION
 Investigation Area

Ordnance Investigation Locations



Source: U.S. Army Corps of Engineers, 2009.

Figure 3-10

Small Arms Range. The Small Arms Range covers approximately 1.5 acres and is located within the boundaries of the Southwest Landfill. The site consists of a range with a backstop and two 12-foot tall lateral berms. Small arms activities were performed historically on the site by the Air Force and continue today by members of the local community. Evidence of a variety of non-military issue small arms casings and several bullets were identified. There was no evidence of MEC observed on the site, and there was no evidence for the use of any other types of munitions found in historical records. Surface soil sampling was performed to evaluate whether metals (primarily lead) associated with firing of small arms at this site has impacted the environment. Based on the results of the soil sampling, lead and antimony were detected above background concentrations within a small portion of the backstop. However, this site is currently an active non-military small arms range. No future response actions were recommended at this site.

Historical Ordnance Storage Buildings. The Historical Ordnance Storage Buildings consist of two individual site locations; one is a former ammunition storage site (former Buildings 1400 and 1401) that has since been demolished and is now a gravel pad, and the second is a former munitions storage building (Building 1488) that is still intact and used currently for storage of equipment and supplies. The former ammunition storage buildings were located approximately 900 feet north of the Galena Airport runway, and generally positioned near the middle of the runway. The former munitions storage building is located at the western end of airport, approximately 1,300 feet north of the runway. There was no MEC observed on either site. Based on the results of the Phase I CSE, the Supplemental Phase I CSE, and the Phase II CSE, there was no evidence of MEC at the Historical Ordnance Storage Buildings. No future response actions were recommended at this site.

Southwest Landfill. A local resident indicated in 2001 that Chemical Agent Identification Sets (CAIS) test kits may have been disposed in the Southwest Landfill; however, no test kits have ever been reportedly found at the site. The Southwest Landfill is a large area approximately 92.5 acres in size that encompasses the Suspected Ordnance Burial Site and the Small Arms Range. The site consists of eastern and western perimeters that are graded flat. The southern perimeter lies next to the Yukon River and the northern perimeter borders wetlands. A visual survey was conducted along the perimeter of the site in order to identify areas of erosion with the potential for exposed munitions. There was no evidence of MEC observed and no evidence of erosion at any location around the perimeter of the landfill. Based on the results of the Phase I CSE, the Supplemental Phase I CSE, and the Phase II CSE, there was no evidence of exposed MEC at the Southwest Landfill. No future response actions were recommended at this site.

Rocket Container Site. In addition to the sites identified in the Phase II CSE, in 2009, approximately 150, 2.75-inch rocket containers were identified during a drum removal effort in the bermed area immediately west of Million Gallon Hill. An unexploded ordnance technician surveyed the site, examined the containers, and determined that they were not MEC. The containers will be demilitarized

and disposed as scrap metal. No future response actions are required at this site.

No evidence of ordnance contamination has been identified at Galena Airport; therefore, the property is considered Category 1 with regard to ordnance.

3.3.8 Pesticides

Pesticides are not currently applied to Air Force buildings and grounds at Galena Airport. The low-levels of pesticides that have been detected in sampling media throughout the airport and in the surrounding community are consistent with controlled application of pesticides for insect control. Elevated levels of pesticides, particularly dichlorodiphenyltrichloroethane- (DDT-) related compounds, have been detected in surface and near-surface soils, north of the BLM housing area. However, no documentation of spills or improper application has been identified. Pesticide detections could be the result of the accumulation of applied pesticides in drainage ways or pesticide storage and handling activities in this area. Because only licensed application of pesticides has been documented, and no spills of pesticides have been identified, the Air Force buildings and grounds at Galena Airport are considered Category 1 with regards to pesticides.

ERP Site CS001 (Contaminated Sediments/DDT Soils) consists of soil contaminated with POL and pesticides that were excavated during construction of the vehicle maintenance facility in 1993. The soils were originally stockpiled near the construction site and were moved to Tank No. 37 at Million Gallon Hill in 1997. Pesticides at the location of the removed stockpile were below ADEC soil standards. This site is considered Category 3.

3.3.9 Radiological Substances

Based on a review of records and interviews, no radiological substances were identified at Air Force buildings at Galena Airport.

3.4 FACILITY DISCLOSURE RESOURCES

Facility disclosure factors include air quality (indoor), ACM, drinking water quality, LBP, PCBs, and radon. If present in a properly managed condition (i.e., no release into the environment), these factors were not used in property categorization. In the event that an issue arose regarding any of these resources, it is discussed within the appropriate factor subsection in Section 3.3.

3.4.1 Air Quality (Indoor)

No indoor air quality concerns were identified at Air Force buildings at Galena Airport.

The Air Force is responsible for operating a Soil Vapor Extraction (SVE) system and a Subsurface Depressurization System (SSDS) at the Galena Aviation Vocational Training Technical Center (GAVTC) building; however, the Air Force

does not own the GAVTC building. The system is in place to prevent contaminants from accumulating within the building to allow occupation of the structure. Approximately 33,000 pounds of benzene, toluene, ethylbenzene, and xylenes (BTEX) is removed annually from the operation of the systems.

While Galena FOL was an operating installation, ADEC granted the Air Force an owner-requested limit (ORL) to restrict the potential to emit from Air Force buildings at Galena Airport to avoid the requirement for an operating permit under 18 Alaska Administrative Code (AAC) 50.325(b)(1)-(b)(2), and to ensure protection of ambient air quality standards and increments established in 18 AAC 50.010.

The potential to emit for the sources listed in the ORL for any one regulated air contaminant was less than 100 tons per year by limiting the diesel and gasoline fuel consumed in the stationary sources (150,000 gallons of diesel fuel and 12,000 gallons of gasoline in any 12-month period), and limiting the sulfur content of the fuel to no greater than 0.30 percent by weight. In accordance with 18 AAC 50.210, the capacity of the facility to emit an air contaminant is verifiable through the monitoring, recordkeeping, and reporting specified in the ORL. By limiting the potential to emit of the sources listed in the ORL, the Air Force avoided the requirement to obtain an operating permit for a building that is classified under Alaska Statute (AS) 46.14.130 (b) and 18 AAC 50.325(b)(1) (State of Alaska, no date).

Based on their status and use, the remaining Air Force buildings (i.e., Buildings 1428 [vacant] and 1568 [remediation support]), air pollutants are not emitted from these buildings.

3.4.2 Asbestos-Containing Materials

ACM and ACM abatement are regulated by the U.S. EPA and OSHA. Emissions of asbestos fibers into the ambient air are regulated in accordance with Section 112 of the Clean Air Act, which established the National Emissions Standards for Hazardous Air Pollutants (NESHAP). NESHAP addresses demolition or renovation of buildings containing ACM.

The current Air Force practice is to manage or abate ACM in active buildings and abate ACM per regulatory requirements prior to building demolition. Abatement of ACM occurs when there is a potential for asbestos fiber releases that would affect the environment or human health.

A comprehensive asbestos survey for buildings at Galena Airport was completed in 1993 and 2006 (Table 3-5). Air Force Buildings 1428 and 1568 were identified as containing building materials with asbestos (cement asbestos board and floor tile mastic). Wallboard within both buildings was noted to be damaged or deteriorated during the VSI.

In addition to the two Air Force buildings, 20 former Air Force buildings at Galena Airport remain that were identified as containing building materials with asbestos (see Table 3-5). The remainder of the buildings surveyed had no ACM identified.

Table 3-5. Buildings Surveyed for Asbestos
Page 1 of 2

Building ID	Building Name	Asbestos-Containing Material Present
Air Force Buildings Surveyed for ACM		
1428	Alert Hangar	Cement asbestos board, floor tile mastic
1568	RAPCON Building	Floor tile mastic
Former Air Force Buildings Surveyed for ACM		
1404 (<i>demolished</i>)	Control Tower	No ACM identified
1427 (<i>demolished</i>)	Liquid Oxygen Storage	No ACM identified
1429 (<i>demolished</i>)	Guard Shack	Roofing material
1430 (<i>removed</i>)	Guard Shack	No ACM identified
1488	Munitions Storage Building	Insulation (pipe, fittings, ducting), wallboard, transite, joint compound
1495	Power Plant Storage Shed	No ACM identified
1497	Sewage Treatment Plant	Insulation (fittings)
1498	Power Plant Cooling Shed	No ACM identified
1499	Power Plant	Mastic, insulation (boiler pipe), floor tile, wall joint compound, boiler stacks
1500	Sewage Treatment Plant	No ACM identified
1551 (<i>demolished</i>)	Birchwood Hangar	No ACM identified
1552	Utility Vault	Insulation (fittings), wallboard joints
1556	Fire Station	Insulation (pipe, fittings), roofing felts, floor tile, mastic, ceiling tile, wall joint compound
1569	Electric Power Station	Muffler exhaust
1570 (<i>demolished</i>)	Maintenance Shop	No ACM identified
1572	Liquid Fuel Pump Station	Wallboard
1578	Water Treatment Plant	Wallboard, mastic, wall joint compound, transite flooring, insulation (fittings, pipe, tank)
1579 (<i>removed</i>)	Guard Shack	No ACM identified
1700	Refueling Vehicle Maintenance Shop	Wallboard, insulation (fittings, pipe), transite, flooring, mastic
1719	Liquid Fuel Pump Station	No ACM identified
1768	Hazardous Storage	No ACM identified
1769	Supply Warehouse	Tile, mastic, insulation (pipe, fittings), wallboard, roofing
1770 (<i>demolished</i>)	Incinerator	Insulation (gasket)
1771	Radar Tower	Sealant
1772	Electric Power Station	No ACM identified
1812 (<i>demolished</i>)	CE Composite Shop	Floor tile, mastic, cement asbestos board
1813 (<i>demolished</i>)	Storage Shed	No ACM identified
1832	Storage Shed	No ACM identified
1833 (<i>demolished</i>)	MWR Storage	Wallboard, cement asbestos board shingles
1836 (<i>demolished</i>)	Liquid Fuel Pump Station	Wallboard, felt, gaskets, grout, transite, shingles

Table 3-5. Buildings Surveyed for Asbestos
Page 2 of 2

Building ID	Building Name	Asbestos-Containing Material Present
1837	Petroleum Operations Building	No ACM identified
1842 (<i>demolished</i>)	Maintenance Shop	Floor tile, mastic, drywall, insulation (fittings, pipe)
1843	Carpenter Shop	Floor tile, mastic, insulation (fittings, pipe), joint compound
1844	Storage Shed	No ACM identified
1845	Vehicle Maintenance Shop	Thermal system insulation, acoustic tile, floor tile and mastic, joint compound, wallboard
1847	School	No ACM identified
1850	Maintenance Shop	No ACM identified
1851	Gymnasium	Insulation (fittings), wall joint compound, flooring, mastic
1852	Guard Shack	No ACM identified
1853 (<i>removed</i>)	Base Engineering	No ACM identified
1854	Headquarters Building	Insulation (fittings, pipe), flooring, mastic, joint compound
1856 (<i>demolished</i>)	Dormitory	Exterior Siding
1857	Medical Aid Station	Wall joint compound, mastic
1858	Cold Storage	No ACM identified
1859	Dining Facility	Insulation (pipe, fittings), wallboard, floor tile, mastic, joint compound
1860 (<i>demolished</i>)	Dormitory	Thermal system insulation, floor tile, floor tile adhesive, joint compound, contaminated carpet
1872	Dormitory	Insulation (pipe fittings), mastic, ceiling texture, sheet vinyl, joint compound
1873	Composite Club	Wallboard, flooring, mastic, transite shingles
1874	Dormitory	No ACM identified
1875	Communications Transmitter	Flooring, mastic
1876	Dormitory	No ACM identified
1880 (<i>demolished</i>)	Service Station	No ACM identified
1891 (<i>demolished</i>)	Dormitory	Insulation (pipe, fittings, tank), floor tile, mastic, wallboard
2000	Storm Drain Pump Station	No ACM identified

Note: There are two primary categories that describe ACM. Friable ACM is defined as any material containing more than 1 percent asbestos that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure (e.g., pipe or boiler insulation and acoustic ceilings). Non-friable ACM is material that contains more than 1 percent asbestos but does not meet the criteria for friable asbestos (e.g., floor tile).

ACM = asbestos containing material
CE = Civil Engineering
RAPCON = Radar Approach Control

Sources: U.S. Air Force 1993, 1998c, 2006d, 2008.

Asbestos has also been identified within tar-like material in the vicinity of the aircraft parking apron on the south side of the runway. The material appears to be used as a sealer for cracks in the asphalt. In 2006, the BLM had the tar-like material sampled and results came back positive for asbestos. This material is not friable and is not easily broken.

3.4.3 Drinking Water Quality

Generally, the water treatment plant at Galena Airport produces safe drinking water that meets current federal and state requirements (Department of the Army, 2005). No drinking water quality concerns have been identified at Air Force buildings at Galena Airport. Water from the well head at the treatment plant was sampled in July 2009 and was found to meet safe drinking water quality standards.

3.4.4 Lead-Based Paint

The use of LBP declined after 1978 when the Consumer Product Safety Commission lowered the allowable lead content in paint to 0.06 percent by weight from its 1973 level of 0.5 percent by weight in a dry film of newly applied paint. This change was made under the Consumer Safety Act of 1977, P.L. 101-608, as implemented by 16 CFR Part 1303. DOD implemented a ban of LBP use in 1978; however, it is possible that buildings painted prior to or during 1978 may have contained LBP.

An LBP survey of buildings at Galena Airport was completed in 2006. Table 3-6 presents the findings of the LBP survey. Air Force Building 1428 was identified as containing LBP (all structural steel and floor striping). No LBP was identified at Building 1568.

In addition to the two Air Force buildings, 19 former Air Force buildings and the unused ASTs at Facility 1880 that remain at Galena Airport were identified as containing LBP. Two buildings (1700 and 1842) were not sampled. The remainder of the buildings had no detection for LBP (see Table 3-6).

3.4.5 Polychlorinated Biphenyls

The disposal of PCBs is regulated under the federal Toxic Substances Control Act (TSCA) (15 U.S.C. Section 2601, et seq., as implemented by 40 CFR Part 761), which banned the manufacture and distribution of PCBs, with the exception of PCBs used in enclosed systems. By federal definition, PCB equipment contains 500 parts per million (ppm) PCBs or more, whereas PCB-contaminated equipment contains PCB concentrations equal to or greater than 50 ppm, but less than 500 ppm, and PCB items contain from 5 to 49 ppm PCBs. TSCA regulates and the U.S. EPA enforces the removal and disposal of sources of PCBs containing 50 ppm or more; the regulations are more stringent for PCB equipment than for PCB-contaminated equipment.

Table 3-6. Buildings Surveyed for Lead-Based Paint

Page 1 of 2

Building ID	Lead-Based Paint Material
Air Force Buildings Surveyed for LBP	
1428	All structural steel and floor striping
1568	None detected
Former Air Force Buildings Surveyed for LBP	
1404 (<i>demolished</i>)	Generator
1427 (<i>demolished</i>)	Not sampled
1429 (<i>demolished</i>)	Soffit
1430 (<i>removed</i>)	None detected
1488	Doors, walls
1495	None detected
1497	Footer
1498	None detected
1499	Floor stripes, ladders, pipes generator, eaves under metal
1500	Cover (pipe cap)
1551 (<i>demolished</i>)	Foundation painted areas
1552	Door, door trim
1556	Door frame, window frame, floor strip, steel posts (bollards)
1569	None detected
1570 (<i>demolished</i>)	None detected
1572	None detected
1573	None detected
1578	Wall, ladder, tank
1579 (<i>removed</i>)	None detected
1700	Not sampled
1719	None detected
1768	None detected
1769	Ladder, concrete floor, doors, door frames, steel
1771	2nd and 3rd floor, steel columns, stairs and handrails
1772	None detected
1812 (<i>demolished</i>)	Room 1, Room 5, Room 7, Room 11, floor stripes, lead-contaminated soil (presumed)
1813 (<i>demolished</i>)	No suspect coatings
1832 (<i>demolished</i>)	All structural steel
1833 (<i>demolished</i>)	Exterior trim
1836 (<i>demolished</i>)	Exterior trim, pipe, door, filter, pump base
1837	Post, stripes, sink
1842 (<i>demolished</i>)	Not sampled
1843	Floor stripes, floor, utility sink
1844	Beams
1845	Walls, ceilings, floor stripes, doors/trim, bollards
1847	Ceramic tile glaze
1850	None detected
1851	Ceramic tile glaze
1852	None detected
1854	Utility sink
1857	Sinks, steel columns
1858	None detected
1859	None detected
1872 (<i>demolished</i>)	Drapery weights
1873	Wainscoting

Table 3-6. Buildings Surveyed for Lead-Based Paint
Page 2 of 2

Building ID	Lead-Based Paint Material
1874	None detected
1875	None detected
1876	None detected
1879	None detected
1881	None detected
2000	Engine, pump
Tank 41	None detected
Tank 42	Pipe striping
Tank 44	None detected
Unused Tanks (1880)	Pipe, Tank 1, Tank 2, Tank 3, Tank 4, Tank 5, lead-contaminated soil (presumed)

Source: U.S. Air Force, 2006g, 2008.

In 2003, there were a total of 66 pole-mounted transformers and 48 pad-mounted transformers on the property (Appendix E). An inventory of pad-mounted transformers conducted in 2003 did not identify any transformers with PCB concentrations exceeding 1 ppm. An inventory of pole-mounted transformers conducted in 2004 identified 7 transformers with PCB concentrations ranging from 1.02 to 12.0 ppm (U.S. Air Force, 2004c, 2004d).

ADEC has indicated that although no PCB releases have been identified at Galena Airport, PCBs could be present in soils near areas that utilized electrical equipment including transformer banks and navigational aids within the airfield. Those areas have not been sampled for PCBs as they are not situated within established ERP sites. Future site investigations will incorporate PCBs in the list of analytes for specific sites that could potentially contain PCB contamination. Based on an interview with a former installation employee, standard protocol did not involve sampling of transformer oil; the transformers were simply shipped to Elmendorf AFB for disposal and new transformers were installed (AECOM, 2009). Transformers have been stored in the supply yard south of Building 1769 (Warehouse); however, no record of PCB releases in this area has been identified.

3.4.6 Radon

Radon is a naturally occurring, colorless, and odorless radioactive gas produced by radioactive decay of naturally occurring uranium. Radon that is present in soil can enter a building through small spaces and openings, accumulating in enclosed areas such as basements. There are no federal or state standards regulating radon exposure at the present time.

Air Force policy requires implementation of the Air Force Radon Assessment and Mitigation Program (RAMP) to determine levels of radon exposure to military personnel and their dependents. The U.S. EPA has made testing recommendations for both residential structures and schools. For residential structures, a level between 4 and 20 picocuries per liter (pCi/l) should lead to additional screening within a few years.

No screening has been conducted for buildings at Galena Airport. A review of State of Alaska data concerning radon indicates that sample results throughout the state are low when the sample is from the flats and low-lying areas (U.S. Air Force 1987, 1988). Based on correspondence between the Air Force Bioenvironmental Engineer and Alaska Department of Health and Social Services, Division of Radiological Health, which determined that structures in low lying areas are known to have low radon sample results, Galena is likely to have low radon levels due to it being situated in a low lying area near the Yukon River.

The U.S. EPA has prepared a map of radon zones for the United States that assigns each county (borough) to one of three zones based on radon potential. Predicted indoor radon levels are highest in Zone 1 and lowest in Zone 3. Yukon-Koyukuk Borough, Alaska, is designated as Zone 3. Predicted average indoor radon levels in Zone 3 areas are less than 2.0 pCi/l (U.S. Environmental Protection Agency, 2009).

3.5 CONSERVATION DISCLOSURE FACTOR FINDINGS

Conservation disclosure factors include cultural resources (historic properties, prehistoric resources, and traditional cultural resources), biological resources (sensitive habitats/wetlands and threatened and endangered species), physiographic conditions (floodplains and landslide/sinkhole conditions), and valuable resources (mineral resources and prime and unique farmlands or timberlands).

3.5.1 Cultural Resources

3.5.1.1 Historic Properties.

One building (Building 1551 - Birchwood Hangar) of the World War II era was determined to meet eligibility criteria for the National Register of Historic Places (National Register), and a total of 19 structures built during the Cold War era were determined to be "contributing elements" to a Galena Historic District (i.e., eligible for the National Register) (Table 3-7). The Air Force has signed a Memorandum of Agreement (MOA) regarding treatment of the eligible properties at Galena Airport.

The Air Force has determined that Building 1428 is eligible for listing in the National Register. All other National Register-eligible buildings have been transferred to the City of Galena or demolished/removed in accordance with the MOA.

3.5.1.2 Prehistoric Resources.

Because of the severe ground disturbance that occurred during construction of buildings, the potential for discovery of archaeological resources is considered very low (U.S. Air Force, 1998a, 2000). No archaeological resource concerns have been identified at Galena.

3.5.1.3 Traditional Cultural Resources.

No traditional cultural resource concerns have been identified at Galena Airport.

Table 3-7. Buildings Potentially Eligible for listing on the National Register

Building ID	Building Name	Year Constructed
Air Force Buildings		
1428	Combat Alert Cell Hangar	1957
Non-Air Force Buildings		
1404 (<i>demolished</i>)	Control Tower	1986
1429 (<i>demolished</i>)	Combat Alert Cell Traffic House	1963
1488 (<i>transferred</i>)	Munitions Storage Building	1957
1551 (<i>demolished</i>)	Birchwood Hangar	1944
1556 (<i>transferred</i>)	Fire Station	1973
1572 (<i>transferred</i>)	Liquid Fuels Pump Station	1957
1713 (<i>demolished</i>)	Liquid Fuels Pump Station	1957
1837 (<i>transferred</i>)	Petroleum Operations Building	1984
1847 (<i>transferred</i>)	Mall and Base Theater	1986
1852 (<i>transferred</i>)	Main Gate	1988
1853 (<i>removed</i>)	Base Chapel	1958
1854 (<i>transferred</i>)	Headquarters Building	1986
1856 (<i>transferred</i>)	Northern Lights Inn	1957
1857 (<i>transferred</i>)	Dispensary	1966
1859 (<i>transferred</i>)	Dining Hall	1956
1860 (<i>demolished</i>)	Dormitory	1969
1872 (<i>demolished</i>)	Airmen's Dormitory	1979
1873 (<i>transferred</i>)	Consolidated Open Mess	1982
1891 (<i>demolished</i>)	The Q: Eagles Retreat Dormitory	1957

Notes: Consultation with the Alaska SHPO was initiated prior to implementing demolition/removal and transfer actions.

SHPO = State Historic Preservation Officer

Source: U.S. Air Force 1998b, 2000.

3.5.2 Biological Resources

3.5.2.1 Sensitive Habitats/Wetlands.

The land surrounding Galena Airport is a lake-dotted lowland that is forested on well drained higher elevations and marshy in the poorly drained lowlands. According to National Wetlands Inventory (NWI) maps of the Galena area, there are no permanent bodies of water within the airport boundary that would meet the conditions to be considered jurisdictional wetlands. There are temporarily flooded, palustrine, emergent areas that surround Galena Airport. These areas can generally be described as having persistent vegetation that remains standing until the beginning of the new growing season and surface water is present for brief periods during the growing season, but the water table usually lies well below the soil surface (Department of the Interior, 1999a, 1999b).

3.5.2.2 Threatened and Endangered Species.

The USFWS has identified the Yukon River as having known occurrences of the American peregrine falcon (*Falco peregrinus anatum*) and possible occurrences of the arctic peregrine falcon (*Falco peregrinus tundrius*) (U.S. Air Force, 1999). The American Peregrine Falcon was removed from the Endangered Species list (delisted) in 1999 and the arctic peregrine falcon was delisted in 1994. Both species remain protected under the Migratory Bird Treaty Act (MBTA).

3.5.3 Physiographic Conditions

3.5.3.1 Floodplains.

Galena Airport lies within the floodplain of the Yukon River. A levee has been constructed around the airport to protect the area from seasonal high river events.

3.5.3.2 Landslide/Sinkhole Conditions.

No landslide/sinkhole conditions are present at Galena Airport.

3.5.3.3 Valuable Resources

Mineral Resources. No valuable mineral resources have been identified at Galena Airport.

Prime and Unique Farmlands or Timberlands. No prime and unique farmlands or timberlands have been identified at Galena Airport. The airport cantonment is completely developed and devoid of natural vegetation. The ground between buildings is mostly bare silt with sparse grass and moss growth. Several small areas have been landscaped with lawns, small birch trees, and shrubs. The ground areas within the airfield consist primarily of grasses that are mowed as part of routine grounds maintenance (U.S. Air Force, 1999).

4.0 ADJACENT PROPERTY FINDINGS

Adjacent properties were evaluated as part of this EBS. Section 4.1 describes the approach used to conduct the evaluation and the results of a search of federal, state, and tribal agency records and databases to identify reported sites where hazardous substances are stored and/or hazardous waste is generated. The findings of the adjacent property evaluation are presented in Section 4.2.

4.1 APPROACH

For the purpose of this EBS, adjacent properties are defined as (1) property adjacent to Galena Airport (i.e., having a contiguous border), and (2) off-site property within 1.0 mile of the Galena Airport with potential environmental concerns identified through the agency records search. It should be noted that all Air Force buildings and infrastructure (with the exception of Buildings 1428 and 1568) has been transferred as of September 30, 2008. Compliance sites (e.g., UST removal actions that have not been closed) associated with transferred buildings and infrastructure are considered Air Force responsibility and are addressed within Chapter 3 of this EBS.

The database search and visual inspection of the identified properties focused on those environmental factors (e.g., USTs and hazardous materials handling practices) that could result in potential contamination of Air Force property at Galena Airport from activities occurring on the adjacent property.

4.1.1 Agency Records Search

Records maintained by federal, state, and tribal agencies were searched to identify reported sites storing hazardous materials and/or generating hazardous waste in the vicinity of Galena Airport. These records included locations of facilities with USTs, leaking UST (LUST) sites, and uncontrolled or abandoned hazardous waste sites. The agency records search consisted of a review of computerized federal, state, and tribal environmental compliance databases.

The search of federal, state, and tribal databases was performed focusing on Galena Airport (Environmental Data Resources, Inc., 2009a) (Appendix C). A list and description of the databases included in the search is presented in Table 4-1. Distances searched for each database are also provided. These databases were investigated with due diligence based on the minimum search distances recommended by the American Society for Testing and Materials (ASTM) guidelines for conducting Phase I Site Assessments (American Society for Testing and Materials, 2005). A summary of database sites identified adjacent to Air Force property at Galena Airport is provided in Table 4-2. A total of 14 adjacent sites were identified within the respective search area for the databases. Note that LUST sites identified during the search of federal, state, and tribal databases are all situated on Air Force property at Galena Airport; therefore, these sites are considered to be on the subject property rather than adjacent. Presentation of the sites on a figure is not possible due to the lack of

Table 4-1. Federal, State, and Tribal Databases
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Database	Description	Search Distance (miles)
Federal Databases		
National Priorities List (NPL)	A U.S. Environmental Protection Agency (EPA) listing of uncontrolled or abandoned hazardous waste sites. The list, also known as the Superfund List, is primarily based on a score that the site receives from the U.S. EPA's Hazardous Ranking System. These sites are targeted for possible long-term remedial action under the Superfund Act.	1.0
Proposed NPL	A list of sites proposed for the NPL.	1.0
Delisted NPL	Sites deleted from the NPL in accordance with National Oil and Hazardous Substances Pollution Contingency Plan criteria.	1.0
NPL Recovery	A U.S. EPA listing of filed notices of Superfund Liens. The U.S. EPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner has received notification of potential liability.	--
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)	A compilation of known and suspected uncontrolled or abandoned hazardous waste sites. These sites have been or are being investigated by the U.S. EPA for the release or threatened release of hazardous substances. Once a site is placed on CERCLIS, it may be subjected to several levels of review and evaluation and ultimately placed on the NPL.	0.5
CERCLIS No Further Remedial Action Planned (CERCLIS-NFRAP)	Sites that have been removed and archived from the inventory of CERCLIS sites. Archived status means that to the best of the U.S. EPA's knowledge, site assessment has been completed and no further steps will be taken to list the site on the NPL. The decision does not mean that there is no hazard associated with the site, but that it is not judged to be a potential NPL site.	0.5
Corrective Action (CORRACTS)	A database of RCRA facilities undergoing "corrective action." A "corrective action order" is issued pursuant to RCRA Section 3008(h) when there has been a release of hazardous waste or constituents into the environment from an RCRA facility. Corrective actions may be required beyond the facilities boundary and can be required regardless of when the release occurred, even if it predates RCRA.	1.0

Table 4-1. Federal, State, and Tribal Databases
Page 2 of 4

Database	Description	Search Distance (miles)
Federal Databases (Continued)		
Resource Conservation and Recovery Act (RCRA) Information (RCRAInfo) Treatment, Storage, and Disposal (TSD) Facilities	A database containing information pertaining to those facilities that treat, store, or dispose hazardous waste.	0.5
RCRA Large-Quantity Generator (RCRA-LQG)	A database of information pertaining to those facilities that either generate more than 1,000 kilograms of hazardous waste per month or meet other applicable requirements of RCRA.	0.25
RCRA Small-Quantity Generator (RCRA-SQG)	A database of information pertaining to those facilities that generate between 100 and 1,000 kilograms of hazardous waste per month or meet other applicable requirements of RCRA.	0.25
Emergency Response Notification System (ERNS)	A database used to collect information on reported releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the U.S. EPA, the U.S. Coast Guard, the National Response Center, and the Department of Transportation.	--
Hazardous Materials Information Reporting System (HMIRS)	This database contains information regarding hazardous materials spill incidents that were reported to the Department of Transportation.	---
Engineering Controls Sites List (US ENG CONTROLS)	A listing of sites with engineering controls in place.	0.5
Sites with Institutional Controls (US INST CONTROL)	A listing of sites with institutional controls in place. Deed restrictions are generally required as part of institutional controls.	0.5
Department of Defense Sites (DOD)	A dataset of federally owned or administered lands administered by the Department of Defense that have an area equal to or greater than 640 acres.	1.0
Formerly Used Defense Sites (FUDS)	A listing of formerly used defense site properties where the U.S. Army Corps of Engineers is actively working or will take necessary cleanup actions.	1.0
Brownfields Sites (US BROWNFIELDS)	A listing of Brownfields properties addressed by Cooperative Agreement Recipients and Brownfields properties addressed by Targeted Brownfields Assessment.	0.5
Superfund (CERCLA) Consent Decrees (CONSENT)	A list released periodically by the U.S. District Courts of major legal settlements that establish responsibility and standards for cleanup at NPL sites.	1.0

Table 4-1. Federal, State, and Tribal Databases
Page 3 of 4

Database	Description	Search Distance (miles)
Federal Databases (Continued)		
Record of Decision (ROD)	Listing of ROD documents that mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid cleanup.	1.0
Uranium Mill Tailings Sites (UMTRA)	A Department of Energy listing of locations of mill tailings from uranium ore mines.	0.5
Open Dump Inventory (ODI)	A U.S. EPA inventory of open dumps, defined as disposal facilities that do not comply with one or more of Part 257 or Part 258 Subtitle D criteria.	0.5
Toxic Chemical Release Inventory System (TRIS)	This database identifies facilities which release toxic chemicals in quantities reportable under Superfund Amendment and Reauthorization Act (SARA) Title III Section 313.	--
Toxic Substances Control Act (TSCA)	Identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substances Inventory list.	--
FIFRA/TSCA Tracking System (FTTS)	A database that tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA, and EPCRA.	--
Section 7 Tracking Systems (SSTS)	Section 7 of FIFRA requires all registered pesticide-producing establishments to submit an annual report to the U.S. EPA on pesticide production.	--
Integrated Compliance Information System (ICIS)	ICIS supports the information needs of the national enforcement and compliance program as well as the needs of the National Pollutant Discharge Elimination System (NPDES).	--
PCB Activity Database System (PADS)	This database identifies generators, transporters, commercial stores, and/or brokers and disposers of PCBs who are required to notify the U.S. EPA of such activities.	--
Material Licensing Tracking System (MLTS)	A list of sites which possess or use radioactive materials and which are subject to the Nuclear Regulatory Commission licensing.	--
Mines Master Index File (MINES)	A Department of Labor Mine Safety and Health Administration database that contains mine identification numbers issued for mines active or opened since 1971, and also includes violation information.	0.25
Facility Index System (FINDS)	A U.S. EPA database containing both facility information and pointers to other sources of information that contain more detail.	--

Table 4-1. Federal, State, and Tribal Databases
Page 4 of 4

Database	Description	Search Distance (miles)
State Databases		
State Hazardous Waste Sites (SHWS)	SHWS records are the state equivalent of CERCLIS. These sites may or may not also be listed on the federal CERCLIS list. This database identifies sites planned for cleanup using state funds and sites where cleanup will be paid for by potentially responsible parties.	1.0
Solid Waste Facilities/Landfill Sites (SWF/LF)	An inventory of solid waste disposal facilities or landfills.	0.5
Leaking Underground Storage Tank (LUST) Incidence Reports	An inventory of reported leaking USTs incidents.	0.5
Registered Underground Storage (UST) Tanks	A database of USTs regulated under Subtitle I of RCRA and registered with the state department responsible for administering the UST program.	0.25
Regulated Aboveground Storage Tanks (AST)	A database of information on regulated ASTs with storage capacities above 10,000 barrels or 5,000 barrels of crude.	0.25
Spills Database (AK Spills)	A database of spills.	--
Contaminated Sites with Institutional Controls (Inst Control)	Contaminated sites that have institutional controls.	0.5
Voluntary Cleanup Program (VCP) Sites	Sites involved in the State Voluntary Cleanup Program.	0.5
Drycleaner Facility Listings (DRYCLEANERS)	A listing of drycleaning facilities in Alaska.	0.25
Identified and/or Proposed Brownfields Sites (BROWNFIELDS)	Sites defined by the U.S. EPA as real property where redevelopment or reuse may be complicated by the presence of hazardous substances. The Alaska Department of Environmental Conservation provides assistance in applying for EPA Brownfields grants and local redevelopment efforts on previously contaminated property.	0.5
Illegal Drug Manufacturing Sites (CDL)	A listing of properties that have been determined to be illegal drug manufacturing sites.	--
Aerometric Information Retrieval System (AIRS) Facility Listing	A listing of permitted AIRS facilities. AIRS is a database of air releases from stationary sources of air pollutants.	--
Tribal Databases		
Indian Reservations (INDIAN RESERV)	Indian administered lands that have an area equal to or greater than 640 acres	1.0
Leaking Underground Storage Tanks on Indian Land (INDIAN LUST)	A listing of LUST locations on Indian land.	0.5
Underground Storage Tanks on Indian Land (INDIAN UST)	A listing of UST locations on Indian land.	0.25

-- = no specific search distance specified

Table 4-2. Database Sites – Galena
Page 1 of 2

Database ID	Name	Address	Type of Site^(a)	Notes
1	Galena City	Galena City, AK 99765	AK Spills	4 spills <ul style="list-style-type: none"> • 15 gallons of diesel, Responsible Party - Water Joint Ventures • 5 gallons of waste oil, Responsible Party - Air Force • 5 gallons of sulfuric acid, Responsible Party - Alaska Fire Service • 55 gallons of diesel, Responsible Party - Yutana Barge Lines
2	Yukon Fuel	Galena City, AK 99765	AK Spills	2 spills <ul style="list-style-type: none"> • 40 gallons of diesel, Responsible Party - Yukon Fuel Company • 250 gallons of diesel, Responsible Party - Yutana Barge Lines
3	Galena City Airport	Galena City, AK 99765	AK Spills	6 spills <ul style="list-style-type: none"> • 50 gallons of diesel, Responsible Party - Chugach Developmental Corporation • 4 gallons of diesel, Responsible Party - Yukon Fuel Company • 40 gallons of diesel, Responsible Party - Chugach Support Services/Air Force • 1 gallon of diesel, Responsible Party - Chugach Support Services • 2 gallons of diesel, Responsible Party - Chugach Support Services • 13 gallons of lube oil, Responsible Party - Ted Alexander
4	Illinois Creek Mine	Galena City, AK 99765	AK Spills	1 spill <ul style="list-style-type: none"> • 490 gallons of sodium cyanide, Responsible Party - USMX Inc.
5	Yukon Fuel	Galena City, AK 99765	AK Spills	1 spill <ul style="list-style-type: none"> • 7 gallons of diesel, Responsible Party - Yukon Fuel Company
6	USMX	Galena City, AK 99765	AK Spills	1 spill <ul style="list-style-type: none"> • 10 gallons of diesel, Responsible Party - USMX Inc.
7	USMX Illinois Creek Mine	Galena City, AK 99765	AK Spills	1 spill <ul style="list-style-type: none"> • 85 gallons of hazardous substance, Responsible Party - USMX Inc.

Table 4-2. Database Sites – Galena

Page 2 of 2

Database ID	Name	Address	Type of Site ^(a)	Notes
8	Yukon River Beach	Galena City, AK 99765	AK Spills	4 spills <ul style="list-style-type: none"> • 20 gallons of diesel, Responsible Party - Coastal Marine Transport, Inc. • 1 gallon of diesel, Responsible Party - Yutana Barge Lines • 1,000 gallons of diesel, Responsible Party - City of Galena • 2 gallons of lube oil, Responsible Party - Yukon Fuel Company/ Yutana Barge Lines
9	Galena Liquor Store	Galena City, AK 99765	AK Spills	1 spill <ul style="list-style-type: none"> • 10 gallons of gasoline, Responsible Party - Yukon Fuel Company
10	Gary Burgett's House Tank	Galena City, AK 99765	AK Spills	1 spill <ul style="list-style-type: none"> • 10 gallons of diesel, Responsible Party - Yukon Fuel Company
11 ^(b)	Galena Airport	Galena, AK 99741	LUST	11 Air Force removed USTs 1552, 1572, 2541, 1551-1, 1578-3, 1556-2, 1499-3, 1837, 1700-1, 1770-1, 1770-2
12	Front Street	Galena City, AK 99765	AK Spills	1 spill <ul style="list-style-type: none"> • 40 gallons of gasoline, Responsible Party - Khotal Rental Company
13	BLM Warehouse Yard	Galena City, AK 99765	AK Spills	N/A
14	Galena Dump	Galena City, AK 99765	ODI	N/A

Notes: (a) Refer to Table 4-1 for list of databases searched to identify type of site.

(b) LUST sites identified during the search of federal, state, and tribal databases are all situated on Air Force property at Galena Airport; therefore, these sites are considered to be on the subject property rather than adjacent.

- AK = Alaska
- BLM = Bureau of Land Management
- LUST = Leaking Underground Storage Tank
- N/A = not available
- ODI = Open Dump Inventory
- USMX = United States Maritime Alliance Limited
- UST = underground storage tank

Source: Environmental Data Research Inc., 2009a.

specific location information provided in the description of the sites. A breakdown of the sites identified is listed below:

State Database

- LUST: One LUST site was identified. The records document the Air Force removal of 11 USTs including associated contamination of surrounding soils. Because the LUST sites are Air Force sites, they are considered to be on the subject property and not adjacent. See Section 3.3.3 Storage Tanks for a discussion of ASTs and USTs associated with former Air Force buildings at Galena Airport.
- Alaska Spill Inventory (AK Spills): Twelve AK Spills sites documenting a total of 23 spills adjacent to Galena Airport were identified. The spills that are documented ranged in size from 1 gallon to 1,000 gallons and primarily consisted of diesel spills. Other spills included waste oil, lube oil, gasoline, sulfuric acid, sodium cyanide, and hazardous substance (unspecified).
- Open Dump Inventory (ODI): One ODI site was identified. This site is the City of Galena Dump.

Air Force property at Galena Airport does not appear to be affected by sites identified in the search of federal, state, and tribal environmental databases based on summary information for the sites, the quantities of the spills, the types of substances spilled, and the location of the sites in relation to Air Force buildings at Galena Airport.

4.1.2 Inspections

The inspection of adjacent property involved visual surveys from public roadways and a review of recent aerial photographs. Properties adjacent to Air Force buildings at Galena Airport include several structures that are currently in use by non-Air Force entities such as the City of Galena (education and dormitory), DOT & PF (administrative, storage, maintenance), Alaska State Troopers (administrative, storage), BLM (lodging, administrative, storage), FAA (storage, administrative), Alaska Department of Fish and Game (storage), USFWS (administrative, storage), and commercial air carriers. Based on the types of activities conducted by these agencies and because activities (e.g., storage, maintenance) are conducted in accordance with applicable federal and state regulations, activities on these properties are not expected to impact Air Force property. Appendix B contains photographs of adjacent properties.

4.2 FINDINGS

4.2.1 Database Search Findings

The search of federal, state, and tribal environmental databases identified 14 sites adjacent to Air Force property at Galena Airport where activities resulted in the storage or release of hazardous substances or petroleum products. Based on summary information for the sites and the location of these sites (i.e., City of

Galena), they are not expected to prohibit the termination of the Air Force lease with the State of Alaska DOT & PF or the transfer/demolition of the Air Force buildings (i.e., Buildings 1428 and 1568) at Galena Airport. A summary of the 14 database sites is provided in Table 4-2 and Appendix C. Presentation of the sites on a figure is not possible due to the lack of specific location information provided in the description of the sites (location information simply states City of Galena or an individual's home).

4.2.2 Facility Disclosure Factor Findings

Facility disclosure factors on adjacent properties should not pose a concern to Air Force property. Facility disclosure factors associated with the property are discussed in Section 3.4.

4.2.3 Conservation Disclosure Factor Findings

Conservation disclosure factors on adjacent properties should not pose a concern to Air Force property. Conservation disclosure factors associated with the property are discussed in Section 3.5.

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5.0 FINDINGS

The findings of the EBS for Air Force property at Galena Airport are presented in this chapter. Section 5.1 identifies property categorization and disclosure factor considerations. Section 5.2 discusses property categorization and disclosure factor findings. Section 5.3 discusses adjacent property findings. Section 5.4 includes a discussion of identified data gaps and investigations required to determine what additional remedial or other actions, if any, are needed to close out the environmental concerns identified in this EBS.

5.1 ENVIRONMENTAL INVENTORY AND ASSESSMENT

The two Air Force buildings and 37 leased land parcels at Galena Airport were inventoried and assessed to identify specific characteristics and potential environmental concerns. The structures were visually inspected to verify characteristics or features identified during the records search and to identify other environmental concerns. A list of Air Force buildings and leased land parcels considered in this EBS summarizing key characteristics and building-specific information is presented in Appendix A. The information presented in Appendix A was derived from the Real Property Accountable Records, and information from 611 CES personnel, on-site contractor personnel, and from information presented in Chapter 3.0 of this report.

Air Force property was classified into categories based on the findings of this EBS. Specific property categorization for Air Force buildings and leased land parcels at Galena Airport is presented in Table 5-1 and shown on Figure 5-1.

5.1.1 Property Categorization Considerations

As discussed in Section 2.3, environmental factors were used in property categorization. Each occurrence of each factor was first categorized individually based on its past or present potential for environmental concern. The categories for all factors present at each location were then integrated to determine the overall property category. The highest category within an individual property determines the overall category for that property. Because the Air Force leases 37 land parcels at Galena Airport and owns two structures, for purposes of disposal activities, the property categorization of the physical structure has been separated from the condition of the land.

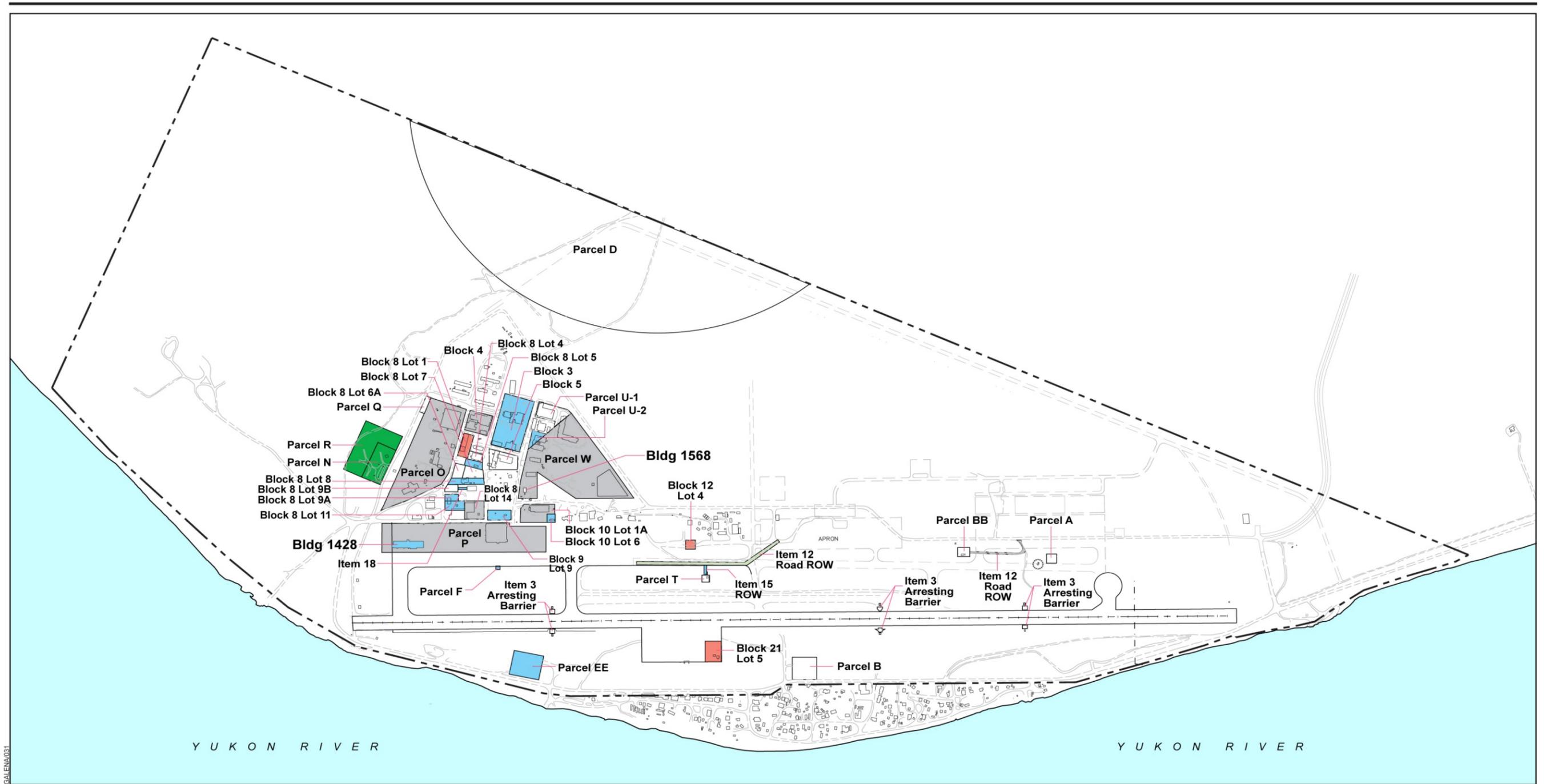
Disclosure factors were not considered in property categorization. These factors are not considered to be hazardous when properly managed and in good condition. Their presence and any required protective actions may be identified and addressed in other documents.

Based on the findings of this EBS presented in Chapter 3.0, the Air Force buildings and leased land parcels at Galena Airport were classified into one of the following categories:

**Table 5-1. Summary of Property Categorization
Air Force Buildings and Leased Land Parcels at Galena Airport**

Building/ Parcel ID	Title	Category
Air Force Buildings		
1428	Alert Hangar	2
1568	RAPCON Building	1
Air Force Leased Land Parcels		
Parcel A	AWOS	1
Parcel B	TACAN Site	1
Parcel D	Demolition Site	1
Parcel F	Weather Station	2
Parcel N	--	4
Parcel O	--	7
Parcel P	--	7
Parcel Q	--	1
Parcel R	--	4
Parcel T	PAR Site	1
Parcel U-1	--	1
Parcel U-2	--	2
Parcel W	--	7
Parcel BB	ASR Site	1
Parcel EE	--	2
Block 3	--	2
Block 4	--	7
Block 5	--	1
Block 8, Lot 1	--	6
Block 8, Lot 4	--	1
Block 8, Lot 5	--	2
Block 8, Lot 6A	--	1
Block 8, Lot 7	--	1
Block 8, Lot 8	--	2
Block 8, Lot 9A	--	2
Block 8, Lot 9B	--	1
Block 8, Lot 11	--	2
Block 8, Lot 14	--	7
Block 9, Lot 9	--	2
Block 10, Lot 1A	--	7
Block 10, Lot 6	--	2
Block 12, Lot 4	Control Tower	6
Block 21, Lot 5	--	6
ITEM 3	Arresting Barrier	1
ITEM 12	20 foot Road ROW	3
ITEM 15	20 foot Pipeline ROW	2
ITEM 18	5 foot Pipeline ROW	2

-- = no parcel name
ASR = Airport Surveillance Radar
AWOS = Automated Weather Observation System
ID = identification
PAR = Precision Approach Radar
RAPCON = Radar Approach Control
ROW = Right-of-Way
TACAN = Tactical Air Navigation



EXPLANATION

- | | | |
|--|---|--|
| Uncontaminated Property (Category 1) | Hazardous substance release, below action levels (Category 3) | Hazardous substance release, no actions taken (Category 6) |
| Petroleum products, release or disposal (Category 2) | Hazardous substance release, all actions have been taken (Category 4) | Areas requiring additional evaluation (Category 7) |
| | Hazardous substance release, not all actions have been taken (Category 5) | |



Note: Land areas and specific buildings are categorized separately.

Property Categorization

Figure 5-1

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- *Category 1* - Areas where no release or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas)
- *Category 2* - Areas where only release or disposal of petroleum products has occurred
- *Category 3* - Areas where release, disposal, and/or migration of hazardous substances have occurred, but at concentrations that do not require removal or remedial response
- *Category 4* - Areas where release, disposal, and/or migration of hazardous substances have occurred, and all removal or remedial actions have been taken
- *Category 5* - Areas where release, disposal, and/or migration of hazardous substances have occurred, and all removal or remedial actions are underway, but have not yet been completed
- *Category 6* - Areas where release, disposal, and/or migration of hazardous substances have occurred, but remedial actions have not been implemented
- *Category 7* - Areas that are not evaluated or require additional evaluation.

Pursuant to U.S. EPA guidance, this EBS identifies property as uncontaminated even if some limited quantity of hazardous substances or petroleum products was released or disposed in cases where the available information indicates that such release or disposal poses no threat to human health or the environment. Examples, as provided in the U.S. EPA guidance, include usage of common household chemicals and storage of heating fuel in housing areas, incidental releases of petroleum products on roadways and parking lots, and the routine licensed application of pesticides (U.S. Environmental Protection Agency, 1994).

Areas where no past or present release or disposal of hazardous substances or petroleum products was identified are considered to be Category 1. Category 2 through 7 properties were identified based upon the methodology presented in Chapter 2.0.

The categorization of Air Force buildings and lease land parcels at Galena Airport is shown on Figure 5-1. The categories shown reflect the findings of the EBS, as discussed in Chapter 3.0, including identification of areas considered uncontaminated.

Air Force Buildings. Air Force Building 1568 is considered Category 1 as no past or present release or disposal of hazardous substances or petroleum products were identified. Air Force Building 1428 is considered Category 2 based on the presence of three abandoned diesel USTs and the condition of the tanks is unknown.

Air Force Leased Land Parcels. Most of the Air Force leased land parcels at Galena Airport are considered Category 1 and Category 2.

Thirteen Air Force leased land parcels are considered Category 1. These land parcels include Parcel A; Parcel B; Parcel D; Parcel Q; Parcel T; Parcel U-1; Parcel BB; Block 5; Block 8, Lot 4; Block 8, Lot 6A; Block 8, Lot 7; Block 8, Lot 9B, and ITEM 3.

Twelve Air Force leased land parcels are considered Category 2 due to petroleum-related issues on the property. These land parcels include Parcel F; Parcel U-2; Parcel EE; Block 3; Block 8, Lot 5; Block 8, Lot 8; Block 8, Lot 9A; Block 8, Lot 11; Block 9, Lot 9; Block 10, Lot 6; ITEM 15; and ITEM 18.

One Air Force leased land parcel (ITEM 12 - 20 foot road ROW) is considered Category 3 due to closure of an ERP site for road oiling.

Two Air Force leased land parcels (Parcel N and Parcel R) are considered Category 4 due to the presence of a closed ERP site where removal activities took place.

Three Air Force leased land parcels are considered Category 6 due to the presence of environmental concerns on the property. These land parcels include Block 8, Lot 1; Block 12, Lot 4; and Block 12, Lot 5.

Six Air Force leased land parcels are considered Category 7 due to the presence or suspected presence of environmental concerns on the property. These land parcels include Parcel O; Parcel P; Parcel W; Block 4; Block 8, Lot 14; and Block 10, Lot 1A.

5.1.2 Facility Disclosure Factor Considerations

Facility disclosure factors that could affect Air Force buildings and leased land parcels at Galena Airport property include ACM, LBP, and PCBs.

5.1.3 Conservation Disclosure Factor Considerations

Conservation disclosure factors that could affect Air Force buildings and leased land parcels at Galena Airport include sensitive habitat, threatened and endangered species, wetlands, and floodplains.

5.2 ENVIRONMENTAL CONDITION FINDINGS

5.2.1 Property Categorization Findings

No issues or concerns were identified for septic tanks, grease traps, medical/ biohazardous waste, or radiological substances.

Hazardous Materials

Only small quantities of hazardous materials are currently stored at Air Force buildings (i.e., Building 1568 to support remedial investigations/actions) at Galena Airport. Past releases of hazardous substances on Air Force leased land parcels are being addressed under the ERP investigative process. No evidence of improper storage of hazardous materials was identified during the records search and VSI; therefore, Buildings 1428 and 1568 and Air Force leased land parcels are considered Category 1 with regard to hazardous materials.

Hazardous Waste

Hazardous waste is not currently generated or stored at Air Force buildings at Galena Airport. A bermed and lined drum storage area is situated within the Building 1568 compound for storage of IDW from ongoing Air Force remedial investigations/actions. A satellite accumulation point was located in Building 1428 when it was in operation. Past releases of hazardous waste on Air Force leased land parcels are being addressed under the ERP investigative process. No evidence of improper storage of hazardous waste was identified during the records search and VSI; therefore, Buildings 1428 and 1568 and Air Force leased land parcels are considered Category 1 with regard to hazardous waste.

Petroleum Products

Air Force facilities at Galena Airport received and stored a variety of petroleum products, including fuels, engine oils, and lubricating oils. Past releases of petroleum products are being addressed under the ERP investigative process and are considered Category 2.

Aboveground Storage Tanks

Sixty-eight ASTs have been identified as being used at Galena Airport. These ASTs are/were used for the storage of JP-8, AVGAS, diesel fuel, MOGAS, used oil, ethylene glycol, deicing fluid, and water. Of the two remaining Air Force buildings, Building 1428 is the only one that utilized ASTs. Two inactive DF-8 ASTs are associated with Building 1428; no documentation or evidence of a release was identified; therefore these ASTs are considered Category 1. Two inactive used oil ASTs are stored within the compound where Building 1568 is situated (these ASTs were relocated to the compound from the storage yard at Building 1850 and are considered Category 1).

There are 64 ASTs associated with buildings that the Air Force has transferred to the City of Galena or other entities. Thirty ASTs have been removed from service, 9 are inactive, and 25 are active. The integrity of the AST in the storage yard at Building 1850 and the AST in the storage yard at Building 1768 are not known; therefore, these ASTs are considered Category 2. The two ASTs at Building 2000 are attached to diesel generators within the structure. Evidence of petroleum staining was noted within the building; therefore, these ASTs are considered Category 2. The ASTs associated with Facility 1880 (20 removed and 5 inactive) were situated within the POL yard, which is being investigated

under the ERP as Site ST005 (POL Tank Farm) and SS005 (Wilderness Hall); because these ASTs stored petroleum products, they are considered Category 2. No documentation or evidence of a release was identified at the other AST locations; therefore, they are considered Category 1.

Underground Storage Tanks

Thirty-two USTs have been identified as being used (or suspected of being used) at Galena Airport. These USTs were used for storing JP-8, diesel fuel, gasoline, used oil, heating oil, and drain water.

Of the two remaining Air Force buildings, Building 1428 is the only one that utilized USTs. Three diesel USTs at Building 1428 were abandoned in place. Because these USTs stored diesel fuel and their condition is unknown, they are considered Category 2.

There are 29 UST locations associated with buildings that the Air Force has transferred to the City of Galena or other entities. Two USTs (Facility 1713, Tanks 37 and 38) are 1,200,000 gallons each and were closed in place. The area where these tanks are situated is being investigated as ERP Site CG001 (Million Gallon Hill); therefore, these USTs are considered Category 2.

Twenty-three removed USTs are considered Category 2 because results of sampling during tank removal activities identified varying concentrations of petroleum contamination in the surrounding soils. Four UST locations have an unknown status. These locations are suspected of containing diesel USTs based on the function and description of the building that has been modified/demolished; however, confirmation of their existence has not yet been determined; therefore these suspect UST locations are considered Category 2.

Fuel Pipeline Systems

The liquid fuel pipeline system was pressure tested in 2008 and no signs of leakage were identified; therefore, the pipeline is considered Category 1. In April 2006, drillers nicked the pipeline causing a release of 47 gallons of JP-8. As part of the spill response, the area around the pipeline was excavated; contaminated soil was collected in 55-gallon drums and disposed, and permanent repair to the line was accomplished. The area where this release occurred is considered Category 2.

ERP Site ST003 (POL Fuel Line Leak) is situated north of the former control tower. In the mid 1960s the transfer pipeline from the barge load/unload area leaked diesel fuel at this site. An estimated 20,000-30,000 gallons leaked. Investigation of the site determined that contamination is not likely to pose a risk to human health or the environment. A Draft NFRAP decision document was submitted in October 2005. Because ADEC concurrence with NFRAP has not yet been received, this site is considered Category 2.

ERP Site ST010 is located south of the airstrip and includes a shallow ditch that runs roughly parallel to the runway. A release of diesel fuel from the pipeline reportedly occurred in 1984. Bioventing was conducted at the site for 9 months in 1996. This site is considered Category 2.

Based on a review of historic aerial photographs and historic maps of former Galena FOL, several abandoned fuel pipeline systems and a hydrant fueling system for aircraft have been identified. These abandoned pipeline systems include:

- On a 1962 map of the installation there are two pipelines that run from the current barge load/unload area, north across the runway, then west immediately after crossing the runway, and onto the POL yard; there is also a pipeline beneath the main road on former Galena FOL that leads up to Building 1859
- On a 1952 map of the installation, there is a pipeline that runs from the current barge load/unload area, north across the runway up to the dike road, then west to the POL Yard
- On several historic aerial photographs and maps, aircraft refueling pads (six refueling pads east of and six refueling pads west of former Birchwood Hangar) are visible. There is no visible evidence of the refueling pads on the surface; however, the presence of underground piping serving the six aircraft refueling pads east of former Birchwood Hangar were confirmed in 2009 using ground penetrating radar.

The nature and extent of any contamination associated with these abandoned pipeline systems and aircraft refueling pads is being evaluated and has not yet been defined. Because the pipelines and aircraft refueling pads conveyed petroleum products, they are considered Category 2.

Oil/Water Separators

None of the Air Force buildings (Buildings 1428 and 1568) utilized OWSs. Seven OWSs have been identified as being used at Air Force facilities at Galena Airport. The only active OWS is at Building 1573. Although no evidence of a release was identified for this OWS, the integrity of the OWS cannot be confirmed without sampling; therefore, this OWS is considered Category 7. OWSs that were used at Buildings 1499, 1556, 1700, 1837, and 1845 have been removed. Sampling around these OWSs at the time of removal identified varying levels of petroleum contaminants in the soil. However, there may be other contaminants of potential concern (e.g., solvents, metals) present from past OWS use. Therefore, these OWSs are considered Category 7. Although Building 1551 has been demolished, the OWS at this building remains in the foundation. Because the integrity of the OWS has not been confirmed this OWS location is considered Category 7.

Environmental Restoration Program

There are 28 ERP sites undergoing various stages of investigation/remediation at Galena Airport. Fourteen ERP sites are considered Category 2 because petroleum contamination has been identified; these sites include CB001, CG001, CG002, OT099, SS004, SS005, SS019, ST003, ST005, ST009, ST010, ST020, ST021, and TU001. Two ERP sites are considered Category 3 because contaminant concentrations were below action levels and site closure has been approved by ADEC; these sites include SS007, and SS009. Three ERP sites are considered Category 4 because remedial actions are complete; these sites include CS001, LF008, and LF011. Five ERP sites are considered Category 5 because remedial actions have been initiated, but are not yet completed; these sites include FT001, LF012, SS013, SS014, and SS016. Four ERP sites are considered Category 6 because contaminants have been identified; however, remedial actions have not yet been initiated. These sites include SS002, SS006, SS015, and SS017.

The Air Force is conducting a comprehensive PA/SI to identify other potential areas of concern that may be present on properties formerly occupied by the Air Force.

Groundwater Contamination. Several groundwater contamination plumes have been identified at Galena Airport. These contamination plumes affect the upper aquifer and flow primarily in a south-southwest direction towards the Yukon River. The plumes are a result of releases from past industrial activities (e.g., fuel storage, vehicle and aircraft maintenance, power plant operations, etc.) that occurred at Galena Airport over the years of its operation. Plume delineation is ongoing and evaluations are underway to address the best approach for remediation.

Ordnance

None of the Air Force buildings at Galena Airport store ordnance. Based on the Phase II CSE investigation, items that could be present at or near Galena Airport include medium/small caliber ammunition for fighter jet weapons, missiles, flares, and small arms ammunition. Six potential ordnance sites have been identified at or near Galena Airport; these sites include:

- EOD Range
- Suspected Ordnance Burial Site
- Small Arms Range
- Historical Ordnance Storage Buildings (Buildings 1400, 1401, and 1488)
- Southwest Landfill
- Rocket Container Disposal Site.

No evidence of ordnance contamination has been identified at Galena Airport; therefore, the property is considered Category 1 with regard to ordnance.

Pesticides

Pesticides are not currently applied to Air Force buildings and grounds at Galena Airport. The low-levels of pesticides that have been detected in sampling media throughout the airport and in the surrounding community are consistent with controlled application of pesticides for insect control. No evidence or documentation of spills or improper application has been identified; therefore, the Air Force buildings and leased land parcels at Galena Airport are considered Category 1 with regards to pesticides. ERP Site CS001 consists of soil contaminated with POL and pesticides that were excavated during construction of the vehicle maintenance facility in 1993. The soils were originally stockpiled near the construction site and were moved to Tank No. 37 at Million Gallon Hill in 1997. Pesticides at the location of the removed stockpile were below ADEC soil standards. This site is considered Category 3.

5.2.2 Facility Disclosure Factor Findings

No issues or concerns were identified for drinking water quality or radon.

Indoor Air Quality

The Air Force is currently operating an SVE and SSDS at the GAVTC building. The system is in place to prevent contaminants from accumulating within the building.

Asbestos-Containing Material

Air Force Buildings 1428 and 1568 were identified as containing building materials with asbestos (cement asbestos board and floor tile mastic). The ACM within these facilities is in fair to poor condition. Asbestos has also been identified within tar-like material in the vicinity of the aircraft parking apron on the south side of the runway. This material is not friable and is not easily broken.

Lead-Based Paint

An LBP survey of buildings at Galena Airport was completed in 2006. Air Force Building 1428 was identified as containing LBP (all structural steel and floor stripping. No LBP was identified at Building 1568.

Polychlorinated Biphenyls

An inventory of transformers at Galena Airport identified 7 pole-mounted transformers with PCB concentrations ranging from 1.02 to 12.0 ppm. No PCB spills have been identified within the Air Force property at Galena Airport.

ADEC has indicated that although no PCB releases have been identified at Galena Airport, PCBs could be present in soils near areas that utilized electrical equipment including transformer banks and navigational aids within the airfield. Transformers have also been stored in the supply yard south of Building 1769; however, no record of PCB releases in this area has been identified. These

areas have not been sampled for PCBs as they are not situated within established sites undergoing investigation.

5.2.3 Conservation Disclosure Factor Findings

No issues or concerns were identified for prehistoric resources, traditional cultural resources, landslide/sinkholes, mineral resources, or prime and unique farmlands or timberlands.

Historic Properties

Air Force Building 1428 is eligible for listing in the National Register. All other National Register-eligible buildings have been transferred to the City of Galena or demolished/removed in accordance with the MOA. The Air Force has signed a MOA regarding treatment of the eligible properties at Galena Airport.

Sensitive Habitats/Wetlands

According to NWI maps of the Galena area, there are no permanent bodies of water within the airport boundary that would meet the conditions to be considered jurisdictional wetlands. However, there are temporarily flooded, palustrine, emergent areas that surround Galena Airport.

Threatened and Endangered Species

Threatened and endangered species are not likely to be present at Galena Airport.

Floodplains

The Air Force buildings and leased land parcels at Galena Airport lie within the floodplain of the Yukon River. A levee has been constructed around the airport to protect the area from seasonal high river events.

5.3 ADJACENT PROPERTY

The search of federal, state, and tribal environmental databases identified 14 sites on or adjacent to Galena Airport where activities resulted in the storage or release of hazardous substances. Based on summary information for the sites and the location of these sites, they are not expected to prohibit the termination of the Air Force lease with the State of Alaska DOT & PF or the transfer/demolition of the Air Force buildings.

Past Air Force operations have resulted in several shallow groundwater contamination plumes that may affect non-Air Force property. These plumes appear to originate from ERP Sites CG001 (Million Gallon Hill), CG002 (Missile Storage Area), SS005 (Wilderness Hall), SS006 (TCE Area), ST005 (POL Tank Farm), ST009 (JP-4 Fillstands), and TU001 (Power Plant Tank 49). Groundwater plumes associated with these sites flow towards the south-southwest and affect property occupied by the City of Galena, USFWS, DOT &

PF, and areas southwest of Tank 44 (primarily commercial air carrier buildings). Site characterization to identify the nature and extent of groundwater contamination is ongoing.

5.4 INCOMPLETE FINDINGS AND DATA GAPS

- Four ASTs (two at Building 2000, one in the storage yard of Building 1768, and one in the storage yard of Building 1850) have evidence of petroleum staining or have the potential for a petroleum release. Additional investigation should be conducted to confirm a release has not occurred.
- Three USTs at Building 1428 (Tank IDs 1428B, 1428-1, and 1428-2) have been abandoned in place. These USTs should be removed and additional investigation conducted to confirm the presence or absence of contamination at these UST locations.
- Tank removal activities at 23 UST locations (Tank IDs 1400, 1401, 1404-2, 43, 46, 47, 48, 49, 1499-4, 1551-1, 1552, 1558-1, 1558-2, 1558-3, 1558-4, 1558-5, 1572, 1578-3, 1770-1, 1770-2, 1837, 1854, and 2541) identified varying levels of petroleum contamination in the surrounding soils. Additional investigation should be conducted to determine if a release has occurred at these sites and to complete regulatory closure of the removal actions.
- Further evaluation should be conducted at suspected UST locations associated with Buildings 400, 1429, 1769, and 1858. These locations are suspected of containing USTs based on the function and description of the building that has been modified/demolished; however, confirmation of their existence has not yet been determined.
- Although no evidence of a release was identified for the active OWS at Building 1573, sampling should be conducted to confirm a release has not occurred from past operations.
- OWSs at Buildings 1499, 1551, 1556, 1700, 1837, and 1845 have been removed or closed in place. Additional investigation should be conducted to determine if a release has occurred at these sites and to complete regulatory closure of the removal actions.
- The Air Force is conducting a comprehensive PA/SI to identify potential areas of concern that may be present on properties formerly occupied by the Air Force.
- Appropriate historic recordation (Architectural Data Form and photography) of Building 1428 in accordance with the MOA should be completed prior to demolition or transfer of the building.

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6.0 COMPLIANCE ISSUES

The following compliance issues have been identified based upon the findings of this EBS:

Storage Tanks. The Air Force will continue investigative activities at removed storage tank locations and pursue closure of the sites.

Oil/Water Separators. The Air Force will continue investigative activities at OWS locations and pursue closure of the sites.

Environmental Restoration Program Sites. The Air Force will continue investigative activities at ERP Sites and pursue closure of the sites.

Indoor Air Quality. The Air Force will continue to evaluate the operation of the SVE and SSDS systems at the GAVTC building to prevent contaminants from accumulating within the building.

Asbestos-Containing Material. The Air Force will disclose the presence of ACM within Buildings 1428 and 1568.

Lead-Based Paint. The Air Force will disclose the potential presence of LBP within Buildings 1428 and 1568.

Polychlorinated Biphenyls. The Air Force will disclose the presence of PCBs in pole-mounted transformers and the potential for PCBs in high potential areas (e.g., former transformer banks and storage areas) on the property.

Historic Properties. The Air Force will complete an Architectural Data Form with appropriate photographs in accordance with the MOA and disclose that Building 1428 is eligible for listing on the National Register.

Threatened and Endangered Species. Although not known to occur on the property, the Air Force will disclose the potential for federally protected species to occur in the region.

Wetlands. The Air Force will disclose the presence of wetlands in the vicinity of Galena Airport.

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7.0 CERTIFICATIONS AND LIST OF PREPARERS

7.1 EBS CERTIFICATION

CERTIFICATION OF THE
ENVIRONMENTAL BASELINE SURVEY
AIR FORCE PROPERTY AT GALENA AIRPORT

This environmental baseline survey (EBS) of the Air Force property associated with Galena Airport utilized only those techniques, procedures, and processes described in this report. In our professional judgment and opinion, the facts and conditions depicted herein are accurate. Information provided herein is subject to limitations inherent in the investigative techniques used and any express limitations of this survey.

The EBS findings are based upon (1) data prepared by government sources, (2) visual and physical inspections of buildings and property performed by the AECOM project team for Air Force property at Galena Airport in August 2009, (3) interviews conducted during the site visit, and (4) data obtained from Elmendorf Air Force Base (AFB) and on-site files. Information developed by other government agencies and independent contractors has been accepted as authentic and true as stated, unless otherwise noted.

The findings of this EBS reflect a review of available information and professional judgment. New information regarding the status of environmental factors at Galena Airport could result in a modification to the findings.

David Jury, REA No 07580
AECOM, Inc.

Date

I certify that the property conditions stated in this report are based upon a review of available records, visual inspections, and analysis, as noted, and are true and correct to the best of my knowledge and belief.

ROBERT L. LOPEZ, YD-02, DAF
Natural Resources Specialist
HQ AFCEE/EXC

Date

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8.0 REFERENCES AND PERSONS CONTACTED

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8.2 PERSONS CONTACTED

The following individuals were contacted during the preparation of this EBS and provided information used in developing the findings of the report.

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9.0 GLOSSARY OF TERMS

9.1 GLOSSARY OF TERMS

Accumulation Point. A location where a generator accumulates hazardous waste awaiting transfer to a treatment, storage, or disposal (TSD) facility. An accumulation point does not require a U.S. Environmental Protection Agency (EPA) TSD permit as long as waste is stored there fewer than 180 days.

Acquisition. Obtaining, use, or control of property by purchase, condemnation, donation, exchange, easement, lease revestment, and/or recapture.

Adjacent Properties. Properties within 1/4 mile of the subject property, and properties within 1 mile of the subject property that exhibit potential environmental concerns.

Asbestos. Six naturally occurring fibrous minerals found in certain types of rock formations. Of the six, the minerals chrysotile, amosite, and crocidolite have been most commonly used in building products. When mined and processed, asbestos is typically separated into very thin fibers. Because asbestos is strong, incombustible, and corrosion-resistant, it was used in many commercial products beginning early in the twentieth century, and peaking in the period from World War II into the 1970s. When inhaled in sufficient quantities, asbestos fibers can cause serious health problems.

Asbestos-containing material (ACM). Any material or product that contains more than 1 percent asbestos.

Contaminants. Undesirable substances rendering something unfit for use.

Contamination. The degradation of naturally occurring water, air, or soil quality, either directly or indirectly, as a result of human activities.

Discharge. Release of groundwater in to springs or wells, through evapotranspiration, or as outflow. Also a release of a liquid into a waterbody or a gas into the air.

Effluent. Waste material discharged into the environment.

Environmental Restoration Program (ERP). The Air Force program designed to identify, characterize, and remediate environmental contamination on Air Force installations. Although widely accepted at the time, procedures followed prior to the mid-1970s for managing and disposing of many wastes often resulted in contamination of the environment. The program has established a process to evaluate past disposal sites, control the migration of contaminants, and control potential hazards to human health and the environment. Section 211 of SARA, codified as the Defense Environmental Restoration Program (DERP), of which the Air Force ERP is a subset, ensures that the Department of Defense (DOD) has the authority to conduct its own environmental restoration programs. DOD coordinates ERP activities with the U.S. EPA and appropriate state agencies.

Groundwater. Water that occurs beneath the water table in soil and geologic formations that are fully saturated.

Hazardous material. Generally, a substance or mixture of substances that has the capability of either causing or significantly contributing to an increase in mortality or an increase in serious irreversible or incapacitating reversible illness; or posing a substantial present or potential risk to human health or the environment. Use of these materials is regulated by the Department of Transportation, Occupational Safety and Health Administration (OSHA), and the U.S. EPA.

Hazardous substances. Hazardous substances is a broad classification and includes hazardous materials, hazardous chemicals, hazardous wastes, and petroleum products. Several different federal and state rules individually regulate the storage of these hazardous substances.

Hazardous waste (federal definition under Resource Conservation and Recovery Act [RCRA], 42 U.S. Code [U.S.C.] Section 6903). RCRA defines hazardous waste as "a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics, may pose a hazard to human health or the environment" (RCRA, Section 1004[5]). The U.S. EPA has listed several wastes that are known to be hazardous. A waste can also be classified as a characteristic hazardous waste if it exhibits one or more of the four hazardous waste characteristics described in Subpart C: ignitability, corrosivity, reactivity, or toxicity.

Lead. A heavy metal used in many industries that can accumulate in the body and cause a variety of negative effects.

Migration. The movement of substances from adjacent areas to the subject property, versus the ERP definition, which is the movement of substances from the subject property to an adjacent area.

National Priorities List. The list compiled by the U.S. EPA pursuant to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C., Section 9605[a][8][B]) of properties with the highest priority for cleanup pursuant to U.S. EPA's Hazard Ranking System.

PCB equipment. Equipment that contains a concentration of PCBs of 500 parts per million (ppm) or greater and is regulated by the U.S. EPA.

Pesticides. Any substance, organic or inorganic, used to destroy or inhibit the action of plant or animal pests; the term thus includes insecticides, herbicides, fungicides, rodenticides, miticides, fumigants, and repellents. All pesticides are toxic to humans some degree. Pesticides vary in biodegradability.

Petroleum Products. Fuels, lubricants, hydraulic fluids, and solvents that are predominant petroleum based. They do not include oil-based paints, pesticides, synthetic solvents or other petroleum products containing hazardous substances which are added after the petroleum refining process.

Petroleum Substance. Petroleum products and petroleum wastes.

Petroleum Wastes. Refuse generated through the use of petroleum products. Petroleum wastes qualifying for the petroleum exclusion are unadulterated petroleum wastes. Petroleum wastes contaminated by hazardous substances are treated as hazardous wastes.

Physical Inspection. An inspection of a contiguous property that included a visit to the subject property, an interview with the property owner/operator (when present), and a walk-around of the property. For base facilities, physical inspections include exterior and interior (walk through) inspections.

Polychlorinated biphenyl (PCB)-contaminated equipment. Equipment that contains a concentration of PCBs from 50 to 499 ppm and is regulated by the U.S. EPA.

Polychlorinated biphenyls (PCBs). Any of a family of industrial compounds produced by chlorination of biphenyls. These compounds accumulate in organisms and concentrate in the food chain with resultant pathogenic and teratogenic effects. They also decompose very slowly.

Release. Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing any hazardous substance or pollutant or contaminant), but excludes (a) any release that results in exposure to persons solely within a workplace, with respect to a claim that such persons may assert against the employer of such persons; (b) emissions from the engine exhaust of a motor vehicle, rolling stock, aircraft, vessel, or pipeline pumping station engine; (c) release of source, by-product, or special nuclear material from a nuclear incident, as those terms are defined in the Atomic Energy Act of 1954, if such release is subject to requirements with respect to financial protection established by the Nuclear Regulatory Commission under Section 170 of such Act, or, for the purposes of Section 104 of this title or any other response action, any release of source by-product, or special nuclear material from any processing site designated under Section 102(a)(1) or 302(a) of the Uranium Mill Tailings Radiation Control Act of 1978, and (d) the normal application of fertilizer.

Solvent. A substance that dissolves or can dissolve another substance.

Transfer. Permits to other government agencies, donations, land exchanges, transfers of federal government property accountability, easements, leases, or licenses.

Uncontaminated Property. Property on which no hazardous substances and no petroleum products or their derivatives were known to have been released or disposed of.

Underground storage tank (UST). Any tank, including underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products, and the volume of which is 10 percent or more beneath the surface of the ground.

U.S. Environmental Protection Agency (EPA). The independent federal agency, established in 1970, that regulates environmental matters and oversees the implementation of environmental laws.

Visual Inspection. An inspection of a contiguous property or a large, remote area of a base that included a windshield survey of the subject property from public access roads or base property.

Visual Reconnaissance Survey. A cursory physical or visual inspection based on review of aerial photographs.

Visual Site Inspection. A physical inspection of base or contiguous property.

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APPENDIX A
ENVIRONMENTAL FACTOR SUMMARY

TABLE A-1
FACILITY MATRIX

Table A-1. Facility Matrix^(a)

Page 1 of 1

Facility ID (Building Name)	Year of Construction	Square Footage	ERP Site	Hazardous Material/Waste	Storage Tanks/OWSs/Septic Tanks			ACM ^(b)	LBP ^(b)	Comments	Property Category ^(a)
					Type	Content	Capacity (gallons)				
1428 (Alert Hangar)	1957	22,242	ST009 (5) 1428 (2) Plume	H(1)/W(1)	AST (I) (1) AST (I) (1) UST (I) (2) UST (I) (2) UST (I) (2)	DF-8 DF-8 Diesel Diesel Diesel	275 25 10,000 10,000 10,000	Y	Y	Vacant USTs have been abandoned-in-place	2
1568 (RAPCON Building)	1982	1,350	ST005 (5)	H(1)	AST (I) (1) AST (I) (1)	Used Oil Used Oil	1,000 1,000	Y	N	Facility currently used to support Air Force remedial investigations/ actions at Galena Airport ASTs were relocated to the Building 1568 compound from the storage yard at Building 1850	1

Notes: (a) Because the Air Force leases 37 land parcels at Galena Airport and owns two structures, for purposes of disposal activities, the property categorization of the physical structure has been separated from the condition of the land. With the exception of Buildings 1428 and 1568, all Air Force buildings and infrastructure have been transferred to other entities.

(b) Data are for disclosure purposes only and do not impact the property categorization.

Number in parentheses indicates property category for that resource (e.g., UST (I) (2) indicates an inactive UST that is Category 2).

- ACM = asbestos-containing material
- AST = aboveground storage tank
- DF-8 = diesel fuel, grade 8
- ERP = Environmental Restoration Program
- H = hazardous material
- I = inactive
- ID = identification
- LBP = lead-based paint
- N = No ACM or lead-based paint, as appropriate, has been identified or is suspected within building
- OWS = oil/water separator
- RAPCON = Radar Approach Control
- UST = underground storage tank
- W = hazardous waste
- Y = ACM or lead-based paint, as appropriate, has been identified or is suspected within building

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TABLE A-2

**SUMMARY OF ENVIRONMENTAL RESTORATION PROGRAM SITES
AND POTENTIAL SITES OF CONCERN
GALENA AIRPORT**

**Table A-2. Summary of Environmental Restoration Program Sites
Galena Airport
Page 1 of 6**

Site ID	Site Name Parcel Location	Air Force Parcel ID	Site Description	Site Status	Property Category
Environmental Restoration Program Sites					
CB001	Galena Aviation Vocational Technical Center (GAVTC)	Block 10, Lot 9 (non-Air Force parcel)	ERP Site CB001 is situated south of the main road to the airport. The GAVTC is in the footprint of the POL Tank Farm but was designated a new site in 2002 to separate GAVTC activities from POL Tank Farm activities. Benzene vapors from subsurface soil contamination were recorded above OSHA standards inside the GAVTC.	A subslab depressurization system was installed in 2002. Site has not yet been closed.	2
CG001	Million Gallon Hill (MGH)	Parcels N and R	ERP Site CG001 is located on the westernmost edge of the main airport runway. MGH is a bulk fuel-storage area that has been occupied by numerous petroleum storage tanks. The contaminants, based on historical usage, are GRO, DRO, BTEX, and lead.	Free product recovery and bioventing have been implemented. Further investigation is in progress. Site has not yet been closed.	2
CG002	Missile Storage Area (MSA)	Parcel O	ERP Site CG002 is located in the southwestern corner of the Air Force cantonment at Building 1488. Contamination detected (GRO, DRO, BTEX, and lead) around the MSA appears to be the result of releases from MGH storage tanks.	Free product recovery and bioventing have been implemented. Further investigation is in progress. Site has not yet been closed.	2
CS001	Contaminated Sediments/DDT Soils	Parcels N and R	ERP Site CS001 consists of soil contaminated with POL and pesticides that were excavated during construction of the vehicle maintenance facility in 1993. The soils were originally stockpiled near the construction site and were moved to Tank No. 37 at MGH in 1997. Pesticides at the location of the removed stockpile were below ADEC soil standards.	Stockpiled soil in Tank No. 37 will be addressed as part of CG001. Site CS001 has been closed.	4
FT001	Fire Protection Training Area	NA - airfield Parcel I (non-Air Force parcel)	ERP Site FT001 is located north of the runway overrun on the eastern edge of the airport. Fire training activities were conducted here since the late 1950s. Flammable liquids were burned and possibly stored here. Contaminants monitored include GRO, DRO, BTEX, and benzene (a) pyrene.	Further investigation is in progress. Site has not yet been closed.	5
LF008	Main Landfill	NA	ERP Site LF008 is situated 0.5 mile to the west of the airport area.	Landfill is capped. Site has been closed.	4
LF011	Alternate Landfill	NA	ERP Site LF011 is situated north of the eastern portion of the runway.	Landfill is capped. Site has been closed.	4

**Table A-2. Summary of Environmental Restoration Program Sites
Galena Airport
Page 2 of 6**

Site ID	Site Name Parcel Location	Air Force Parcel ID	Site Description	Site Status	Property Category
Environmental Restoration Program Sites (Continued)					
LF012	Southwest Dump	NA	ERP Site LF012 is situated west of the runway.	Landfill is capped; however, the cap thickness is unknown. Site has not yet been closed.	5
OT099	Building Demolition/ Drum Removal	Parcel EE	ERP Site OT099 is situated south of the western portion of the runway where drum crushing and disposal activities were conducted.	ADEC approved a SI report in 2006 for the gravel pad formerly used for drum crushing and associated waste management. Site has been closed.	2
SS002	Control Tower Drum Storage Area	Block 12, Lot 4	ERP Site SS002 is a former drum storage area where spills and regular dumping occurred from the 1940s to the 1960s. The site is situated south of ERP Site ST003. Large numbers of drums containing unused aviation gasoline, JP-4, JP-8, diesel, solvents, thinners, cooking fuel, and possibly some waste products were stored. Site SS013 fully encompasses this site.	TCE and lead exceedances in soil and groundwater will be addressed as part of ERP Site SS013. Draft NFRAP submitted in October 2005. Site has not yet been closed.	6
SS004	4,000-Gallon JP-4 Fuel Spill	NA - airfield	ERP Site SS004 is situated south of the eastern portion of the runway.	Contaminated soils from the spill were removed. Site has been closed.	2
SS005	Wilderness Hall	Parcels W and U-2	ERP Site SS005 is situated in the vicinity of former Building 1872 near the northwest corner of the POL Tank Farm. The potential source of contamination was from a fuel valve rack (near Facility 1836, just south of Wilderness Hall) and abandoned fuel tanks and fill stands (near Building 1872). In 2002, the POL Tank Farm area was administratively split into two sites (Wilderness Hall [SS005] and POL Tank Farm [ST005]). The soil and ground water contaminants of concern include GRO, DRO, and BTEX.	Bioventing has been implemented. Further investigation is in progress. Site has not yet been closed.	2
SS006	TCE Area	Block 8, Lot 1	ERP Site SS006 is situated near Building 1845, a former vehicle maintenance facility. It was suspected as the location of degreasing solvent usage, but subsequent investigation revealed that other facilities were the likely point of origin of chlorinated solvent releases.	Further investigation is in progress. Site has not yet been closed.	6

**Table A-2. Summary of Environmental Restoration Program Sites
Galena Airport
Page 3 of 6**

Site ID	Site Name Parcel Location	Air Force Parcel ID	Site Description	Site Status	Property Category
Environmental Restoration Program Sites (Continued)					
SS007	Drum Removal	NA - airfield	ERP Site SS007 was situated north of the eastern portion of the runway.	Soil samples were below regulatory limits. Site closure report is in progress.	3
SS009	Road Oiling	ITEM 12 Road Right-of- Way	ERP Site SS009 includes roads where liquid wastes were reportedly applied to control dust resulting in contamination with PCBs and PAHs.	Investigation of the site determined that contamination is not likely to pose a risk to human health or the environment. Draft NFRAP submitted in October 2005. Site closure report is in progress.	3
SS013	Control Tower Drum Storage Area South	Block 12, Lot 4 Parcel GG (non-Air Force parcel)	Investigation of Site SS002 revealed that it did not encompass the entire area of historic drum storage. ERP Site SS013 was designated to encompass the entire Control Tower Drum Storage Area. ERP Site SS013 is a former storage area (used until the 1970s) where spills and releases occurred from drum handling. The site was an unpaved area located between the runway and apron that stored a large number of drums (stacked horizontally about 3 drums high and 10 drums wide) containing unused AVGAS, JP-1, JP-4, diesel fuel, solvents, thinners, cooking fuel, and possibly some waste products. Unused drum residues were reportedly dumped on the ground regularly prior to shipping the empty drums off-site. The drum holding area extended from the southeast quadrant of the present-day air services parking ramp to 600 feet east of the former control tower.	A portion of the site is under the paved tarmac near the former control tower. No significant soil contamination was detected in previous investigations. TCE was the only confirmed contaminant detected in ground water above Method 2 cleanup levels during the 1994 sampling event. Site has not yet been closed.	5
SS014	Birchwood Hangar/Old Power Plant	Parcel P	The buildings have been demolished Tank 1551-1 (500-gallon diesel UST) removed. DRO in soil, comingled with Old Power Plant. The former Birchwood Hangar housed aircraft maintenance facilities between 1945 and 1957. Solvents and fuels may have contaminated the concrete floor and subsurface. The building was dismantled in 2001.	Further evaluation of site required to determine if environmental concerns exist.	5

**Table A-2. Summary of Environmental Restoration Program Sites
Galena Airport
Page 4 of 6**

Site ID	Site Name Parcel Location	Air Force Parcel ID	Site Description	Site Status	Property Category
Environmental Restoration Program Sites (Continued)					
SS015	South Apron Maintenance Area - TCE Area Discovered in September 2008	Block 21, Lot5 Parcel AA (non-Air Force parcel)	TCE detected. 834 ug/l TCE in ground water near source area. 10 ug/l TCE in ground water near private wells.	Further evaluation of site required to determine if environmental concerns exist.	6
SS016	2541 POL Fuels Laboratory	NA – near BLM area	1,500-gallon waste petroleum UST - removed in 1998 BTEX, GRO, DRO and 1,2-DCA contamination above soil cleanup levels in 2001. Benzene, GRO and DRO exceed groundwater cleanup levels in 2001 and 2008.	Further evaluation of site required to determine if environmental concerns exist.	5
SS017	Truck Fillstands	Block 10, Lot1A	During a review of 1987 aerial photographs, former truck fill stands were discovered west of Building 1556. In August 2007, investigation was performed in the area of the former truck fill stands that included collection and analysis of soil gas, soil, and groundwater samples. Elevated petroleum hydrocarbon concentrations were reported for soil gas and soil samples. TCE, DRO, and GRO were detected in ground water at concentrations below ADEC groundwater cleanup levels.	Further evaluation of site required to determine if environmental concerns exist.	6
SS019	Building 1700	Parcel O	300-gallon waste oil UST/OWS – removed in 1997 GRO (3,900 mg/kg), DRO (6,160 mg/kg), and BTEX (all above Method 2) left in the excavation. Contaminated soil and clean fill used as backfill.	Further evaluation of site required to determine if environmental concerns exist. Managed under Building 1700 Site.	2
ST003	POL Fuel Line Leak	Block 12, Lots 1A and 3 (non-Air Force parcels)	ERP Site ST003 is situated north of the former control tower. In the mid 1960s, the transfer pipeline from the barge unloading area leaked diesel fuel at this site. An estimated 20,000-30,000 gallons leaked.	Investigation of the site determined that contamination is not likely to pose a risk to human health or the environment. Draft NFRAP submitted in October 2005. Site has not yet been closed.	2

**Table A-2. Summary of Environmental Restoration Program Sites
Galena Airport
Page 5 of 6**

Site ID	Site Name Parcel Location	Air Force Parcel ID	Site Description	Site Status	Property Category
Environmental Restoration Program Sites (Continued)					
ST005	POL Tank Farm	Parcel W	ERP Site ST005 is situated in the eastern portion of the main airport "triangle" immediately north of the main road to the civilian airport facilities. Originally 33 tanks containing JP-4, JP-8, gasoline, diesel fuel, and de-icing agents were located on the site. In 1992, all but eight tanks were removed; presently they are all out of service. In 2002, the POL tank farm site was administratively separated into two sites (Wilderness Hall [SS005] and POL Tank Farm [ST005]).	Further investigation is in progress. Site has not yet been closed.	2
ST009	JP-4 Fillstands	Block 8, Lots 9A and 11	ERP Site ST009 is situated in the south-central part of the western portion of the main airport "triangle," to the north of one of the east-west roadways within the airport. The site included diesel and JP-4 fillstands, a waste fuel UST, and POL pipelines to MGH. In 1994, a new vehicle maintenance facility (Building 1573) was constructed at the site.	Further investigation is in progress. Site has not yet been closed.	2
ST010	Southeast Runway Fuel Spill	NA - airfield	ERP site ST010 is located south of the airstrip, includes a shallow ditch that runs roughly parallel to the runway. A release of diesel fuel from the pipeline reportedly occurred here in 1984.	Bioventing was conducted at the site for 9 months in 1996. Further investigation is in progress. Site has not yet been closed.	2
ST020	Building 1837 - Petroleum Operations Facility	Parcel W	One 2,000-gallon used oil UST removed in 1998. One 500-gallon waste oil UST/OWS removed in 2001. Benzene, GRO and DRO above soil cleanup levels in 2001 and 2007. Benzene, GRO, DRO above ground water cleanup levels in 2001 and 2007. Building 1837 is within the POL Tank Farm area where multiple contaminant releases have occurred. At the time the UST was removed, no environmental samples were taken to evaluate potential contamination of the soil within the excavated area.	Further evaluation of site required to determine if environmental concerns exist.	2

**Table A-2. Summary of Environmental Restoration Program Sites
Galena Airport
Page 6 of 6**

Site ID	Site Name Parcel Location	Air Force Parcel ID	Site Description	Site Status	Property Category
Environmental Restoration Program Sites (Continued)					
ST021	Building 1549 – Old Fire Station	Block 8, Lot 14	In August 2007, investigation was performed in the area of the former fire station that included collection and analysis of soil gas, soil, and groundwater samples. Low concentrations of petroleum hydrocarbon were reported for groundwater samples. BTEX, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene were detected.	Further evaluation of site required to determine if environmental concerns exist.	2
TU001	Power Plant Tank 49	Parcel O	ERP Site TU001 includes the power plant and UST No 49. UST 49 was a 25,000-gallon diesel fuel tank. Sludge and water fuel mixture from the UST were periodically disposed on the ground and the UST may have leaked.	UST 49 and contaminated soils were removed in 1997. Investigation of the site determined that contamination is not likely to pose a risk to human health or the environment. Further investigation is in progress. Site has not yet been closed.	2

Note: Number in parentheses indicates property category for ERP Sites and Potential Sites of Concern.

ADEC	= Alaska Department of Environmental Conservation	µg/l	= micrograms per liter
AVGAS	= aviation gasoline	MGH	= Million Gallon Hill
BTEX	= benzene, toluene, ethylbenzene, and xylenes	mg/kg	= milligram per kilogram
DCA	= Dichloroethane	MSA	= Missile Storage Area
DDT	= dichlorodiphenyltrichloroethane	NA	= not applicable
DRO	= diesel range organics	NFRAP	= No Further Response Action Planned
ERP	= Environmental Restoration Program	OWS	= oil/water separator
GAVTC	= Galena Aviation Vocational Technical Center	PAH	= polynuclear aromatic hydrocarbon
GRO	= gasoline range organics	PCB	= polychlorinated biphenyl
JP-1	= jet propulsion fuel, grade 1	POL	= petroleum, oil, and lubricants
JP-4	= jet propulsion fuel, grade 4	TCE	= trichloroethylene
JP-8	= jet propulsion fuel, grade 8	UST	= underground storage tank

Sources: AECOM, 2009; U.S. Air Force, 2003a, 2003b, 2004e, 2004f, 2005d, 2007a, 2008.

TABLE A-3

**SUMMARY OF ENVIRONMENTAL CONDITIONS
WITHIN AIR FORCE PARCELS**

Table A-3. Summary of Environmental Conditions Within Air Force Parcels
Page 1 of 3

Air Force Parcel	Title	Area (square feet)	Area (Acreage)	Air Force Buildings	Non-Air Force Other Buildings	Sites
Parcel A	AWOS	10,000	0.229	none	none	
Parcel B	TACAN Site	62,500	1.434	none	none	
Parcel D	Demolition Site	450,000	10.330	none	none	
Parcel F	Weather Station	600	0.014	none	none	400 UST(2)
Parcel N	--	80,000	1.836	none	1713 (Demolished - Pump Station) 1719 (Pump Station)	CG001(2) CS001(4) 1713 USTs(2) Plume
Parcel O	--	461,425	10.592	none	1488 (Munitions Storage) 1497 (Sewage Treatment Plant) 1498 (Shed) 1499 (Power Plant) 1500 (Sewage Treatment Plant) 1700 (Refueling Vehicle Maintenance Shop) 1768 (Hazardous Storage) 1769 (Warehouse) 1770 (Demolished - Incinerator) 1771 (Radar Tower) 1772 (Electric Power Station) Sewage Lagoon	CG002(2) TU001(2) SS019(2) 1499 ASTs(1) 1499 USTs(2) 1499 OWS(7) 1700 OWS(7) 1768 AST(2) 1769 UST(2) 1770 USTs(2) 1772 AST(1) Plume
Parcel P	--	492,500	11.306	1428 (Alert Hangar)	1427 (Demolished - Oxygen Storage) 1429 (Demolished - Guard Shack) 1430 (Demolished - Guard Shack) 1551 (Demolished - Birchwood Hangar) Former Aircraft Refueling Pads	SS014(5) 1428 ASTs(1) 1428 USTs(2) 1429 UST(2) 1551 UST(2) 1551 OWS(7) Plume
Parcel Q	--	10,000	0.229	none	none	
Parcel R	--	144,000	3.305	none	none	CG001(2) CS001(4) 1719 ASTs(1) Plume
Parcel T	PAR Site	4,900	0.112	none	3005 (Demolished - Electric Power Station)	
Parcel U-1	--	48,061	1.103	none	1874 (Dormitory) 1876 (Dormitory)	
Parcel U-2	--	15,543.4	0.357	none	1872 (Demolished - Dormitory)	SS005(2)

Table A-3. Summary of Environmental Conditions Within Air Force Parcels
Page 2 of 3

Air Force Parcel	Title	Area (square feet)	Area (Acreage)	Air Force Buildings	Non-Air Force Other Buildings	Sites
Parcel W	--	377,941.2	8.676	1568 (RAPCON)	1569 (Electric Power Station) 1570 (Demolished - Maintenance Shop) 1832 (Demolished - Storage Shed) 1833 (Demolished - MWR Storage) 1836 (Demolished - Liquid Fuel Pump hoses and fillstands) 1837 (Petroleum Operations Facility) 1872 (Dormitory) 1874 (Dormitory) 1875 (Communication Transmitter) 1879 (Fuel Pump Station) 1880 (Demolished - Service Station) 1881 (Vehicle Fueling Station) Tank 44	SS005(2) ST005(2) ST020(2) 1568 AST(1) 1569 AST(1) 1837 UST(2) 1837 OWS(7) 1875 AST(1) 1879 AST(1) 1880 ASTs(2) 1881 ASTs(1) Plume
Parcel BB	ASR Site	12,000	0.275	none	3205 (Demolished - Electric Power Station)	
Parcel EE	--	81,000	1.859	none	none	OT099 (2)
Block 3	--	171,000	3.925	none	1854 (Headquarters) 1858 (Dining Storage) 1859 (Dining Hall) 1860 (Demolished - Dormitory) 1891 (Demolished - Dormitory)	1854 ASTs(1) 1854 UST(2) 1859 ASTs(1) 1859 UST(2)
Block 4	--	53,900	1.237	none	1843 (Carpenter Shop) 1845 (Maintenance Shop) 1847 (Charter School)	1845 OWS(7)
Block 5	--	53,204.5	1.221	none	1851 (Gym) 1857 (Medical Facility)	
Block 8, Lot 1	--	25,000	0.574	none	1842 (Demolished - Maintenance Shop) 1844 (Storage Shed)	SS006(6) Plume
Block 8, Lot 4	--	13,296	0.305	none	1850 (Maintenance Shop)	Plume
Block 8, Lot 5	--	16,197	0.372	none	Storage Shed	1850 AST(2) Plume
Block 8, Lot 6A	--	15,143.7	0.348	none	none	Plume
Block 8, Lot 7	--	19,950	0.458	none	1812 (Demolished - CE Building) 1813 (Well House)	Plume
Block 8, Lot 8	--	24,080	0.553	none	1548 (Demolished - POL Office) 1578 (Maintenance Shop)	1578 ASTs(1) 1578 UST(2) Plume
Block 8, Lot 9A	--	9,523	0.218	none	Fill Stand	ST009(2)
Block 8, Lot 9B	--	9,504	0.218	none	Deicing fluid storage tanks	77506 ASTs(1)

Table A-3. Summary of Environmental Conditions Within Air Force Parcels
Page 3 of 3

Air Force Parcel	Title	Area (square feet)	Area (Acreage)	Air Force Buildings	Non-Air Force Other Buildings	Sites
Block 8, Lot 11	--	20,000	0.459	none	1572 (Pump Station) 1573 (Maintenance Shop) Fill Stand	ST009(2) 1572 AST(1) 1572 UST(2) Plume
Block 8, Lot 14	--	38,000	0.872	none	1573 (Maintenance Shop) 80100 (Water Well)	ST009(2) ST021(2) 1573 ASTs(1) 1573 OWS(7) Plume
Block 9, Lot 9	--	25,850	0.593	none	1558 (Demolished - Power House)	1558 USTs(2) Plume
Block 10, Lot 1A	--	74,397	1.708	none	1556 (Fire Station)	SS017(6) 1556 OWS(7) Plume
Block 10, Lot 6	--	7,200	0.165	none	1552 (Utility Vault)	1552 ASTs(1) 1552 UST(2)
Block 12, Lot 4	Control Tower	10,000	0.229	none	1404 (Demolished - Control Tower)	SS002(6) SS013(5) 1404 ASTs(1) 1404 UST(2)
Block 21, Lot 5	--	37,500	0.860	none	none	SS015(6) Plume
ITEM 3	Arresting Barriers	--	--	none	none	
ITEM 12	20 foot Road ROW	--	--	none	none	SS009(3)
ITEM 15	20 foot Pipeline ROW	--	--	none	none	
ITEM 18	5 foot Pipeline ROW	486	0.011	none	none	
Total Square Feet and Acreage		2,874,701.8	65.983			

Note: Number in parentheses indicates property category for ERP Sites.

Air Force parcel IDs are from the Alaska Department of Transportation and Public Facilities Galena Airport Land Occupancy Map dated May 19, 2004.

- = no parcel title/description
- ASR = Airport Surveillance Radar
- AST = aboveground storage tank
- AWOS = Automated Weather Observation System
- CE = Civil Engineering
- ERP = Environmental Restoration Program
- MWR = Morale, Welfare, and Recreation
- OWS = oil/water separator
- PAR = Precision Approach Radar
- POL = petroleum, oil, and lubricants
- RAPCON = Radar Approach Control
- ROW = right-of-way
- TACAN = Tactical Air Navigation
- UST = underground storage tank

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TABLE A-4

**SUMMARY OF ENVIRONMENTAL CONDITIONS
WITHIN NON-AIR FORCE PARCELS**

Table A-4. Summary of Environmental Conditions Within Non-Air Force Parcels

Parcel	Title	Sites
Parcel I	Airfield	FT001(5)
Parcel AA	BLM - Alaska Fire Service	SS015(6)
Parcel GG	Airfield	SS013(5)
Block 9, Lot 8	DOT & PF	
Block 10, Lot 9	City of Galena	CB001(2)
Block 12, Lots 1A and 3	Frontier Flying Services	ST003(2)
NA	Airfield	SS004(2) SS007(3) SS016(5) ST010(2)
NA	Off Airport Property	LF008(4) LF011(4) LF012(5)
NA	Roads	SS009(3)

Note: Number in parentheses indicate property category for ERP Sites.
BLM = Bureau of Land Management
DOT&PF = Department of Transportation and Public Facilities
ERP = Environmental Restoration Program
NA = not applicable, ERP Site is on property with no parcel ID

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APPENDIX B

SITE PHOTOGRAPHS

PHOTOGRAPHS

ENVIRONMENTAL RESTORATION PROGRAM



Photograph 1: ERP Site CB001, GAVTC Building.



Photograph 2: ERP Site CB001, GAVTC SVE/SSDS System.



Photograph 3: ERP Site CB001, GAVTC SVE/SSDS System.



Photograph 4: ERP Site CG001, Million Gallon Hill.



Photograph 5: ERP Site CG001, Million Gallon Hill.



Photograph 6: ERP Site CG002, Missile Storage Area.



Photograph 7: ERP Site CS001, Contaminated Sediments/DDT Soils.



Photograph 8: ERP Site FT001, Fire Protection Training Area.



Photograph 9: ERP Site FT001, Fire Protection Area.



Photograph 10: ERP Site LF008, Main Landfill.



Photograph 11: ERP Site LF011, Alternate Landfill.



Photograph 12: ERP Site LF011, Alternate Landfill.



Photograph 13: ERP Site LF012, Southwest Dump.



Photograph 14: ERP Site LF012, Southwest Dump (drum debris near the site).



Photograph 15: ERP Site LF012, Southwest Dump (buried vehicle near the site).



Photograph 16: ERP Site LF012, Southwest Dump (concrete debris near the site).



Photograph 17: ERP Site OT099, Building Demolition/Drum Removal.



Photograph 18: ERP Site OT099, Building Demolition/Drum Removal.



Photograph 19: ERP Site SS002, Control Tower Drum Storage Area.



Photograph 20: ERP Site SS004, 4,000-gallon JP-4 Fuel Spill.



Photograph 21: ERP Site SS005, Wilderness Hall.



Photograph 22: ERP Site SS006, Building 1842 TCE Area.



Photograph 23: ERP Site SS007, Drum Removal.



Photograph 24: ERP Site SS013, Control Tower Drum Storage Area South.



Photograph 25: ERP Site SS014, Birchwood Hangar/Old Power Plant.



Photograph 26: ERP Site SS014, Birchwood Hangar/Old Power Plant.



Photograph 27: ERP Site SS014, Birchwood Hangar/Old Power Plant.



Photograph 28: ERP Site SS015, South Apron Maintenance Area (TCE Area Discovered in 2008).



Photograph 29: ERP Site SS016, Building 2541-POL Fuels Laboratory.



Photograph 30: ERP Site SS016, Building 2541-POL Fuels Laboratory.



Photograph 31: ERP Site SS017, Truck Fill Stands.



Photograph 32: ERP Site SS019, Building 1700.



Photograph 33: ERP Site ST003, POL Fuel Line Leak.



Photograph 34: ERP Site ST005, POL Tank Farm.



Photograph 35: ERP Site ST005, POL Tank Farm.



Photograph 36: ERP Site ST005, POL Tank Farm.



Photograph 37: ERP Site ST009, JP-4 Fillstands.



Photograph 38: ERP Site ST010, Southeast Runway Fuel Spill.



Photograph 39: ERP Site ST020, Building 1837-Petroleum Operations Facility.



Photograph 40: ERP Site ST020, Building 1837-Petroleum Operations Facility.



Photograph 41: ERP Site ST021, Building 1549-Old Fire Station.



Photograph 42: ERP Site TU001, Power Plant Tank 49.



Photograph 43: ERP Site TU001, Power Plant Tank 49 (ASTs where Tank 49 was situated).

PHOTOGRAPHS

BUILDINGS 1428 AND 1568



Photograph 1: Building 1428 Southern Exterior.



Photograph 2: Building 1428 Northern Exterior.



Photograph 3: Building 1428 Abandoned UST near Mechanical Room.



Photograph 4: Building 1428 Abandoned USTs at Northeast Corner of Building.



Photograph 5: Building 1428 Abandoned Water Well.



Photograph 6: Building 1428 Interior.



Photograph 7: Building 1428 Interior.



Photograph 8: Building 1428 Abandoned Water Well within Mechanical Room.



Photograph 9: Building 1428 Interior Hangar Bay 1.



Photograph 10: Building 1428 Interior Hangar Bay 1, Compressed Gas Storage.



Photograph 11: Building 1428 Interior Hangar Bay 2, Glycol Piping.



Photograph 12: Building 1428 Interior Hangar Bay 2, Hydraulic Door Lift.



Photograph 13: Building 1428 Interior Hangar Bay 2, HVAC.



Photograph 14: Building 1428 Interior Hangar Bay 2, Hydraulic Lift.



Photograph 15: Building 1428 Interior Hangar Bay 2, Overpack Barrel.



Photograph 16: Building 1428 Interior Hangar Bay 3.



Photograph 17: Building 1428 Interior Hangar Bay 3, Hydraulic Door Lift.



Photograph 18: Building 1568 Northern Exterior.



Photograph 19: Building 1568 Eastern Exterior.



Photograph 20: Building 1568 Drum Storage Area within Fenced Compound.



Photograph 21: Building 1568 Airfield Lighting Stored within Fenced Compound.



Photograph 22: Building 1568 Remediation Equipment and Inactive AST within Fenced Compound.



Photograph 23: Building 1568 Remediation Equipment and Inactive AST within Fenced Compound

PHOTOGRAPHS

ADJACENT PROPERTY



Photograph 1: DOT&PF Property North of Building 1428.



Photograph 2: DOT&PF Property North of Building 1428.



Photograph 3: DOT&PF Property North of Building 1428.



Photograph 4: DOT&PF Property North of Building 1428.



Photograph 5: DOT&PF Property North of Building 1428.



Photograph 6: DOT&PF Property North of Building 1428.



Photograph 7: DOT&PF Property North of Building 1428.



Photograph 8: Adjacent Property East of Building 1568.



Photograph 9: Tellaska Property East of Building 1568.



Photograph 10: Adjacent Property West of Building 1568.



Photograph 11: Bureau of Land Management Building South of Building 1568.

PHOTOGRAPHS

WATER WELL LOCATIONS



Photograph 1: Water Well #1 (potable), near Building 1573.



Photograph 2: Water Well #2 (abandoned), inside Building 1578.



Photograph 3: Water Well #3 (non-potable), at Former Building 1812.



Photograph 4: Water Well #3 (non-potable), at Former Building 1812



Photograph 5: Water Well #4 (abandoned), inside Building 1428.



Photograph 6: Water Well #5 (abandoned), near Former Building 400.



Photograph 7: Water Well #6 (abandoned), near Former Building 1400.



Photograph 8: Water Well #7 (potable), inside Building 1578.



Photograph 9: Water Well Unknown (abandoned), near Building 1428.

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APPENDIX C

FEDERAL, STATE, AND TRIBAL DATABASE SEARCH FINDINGS



Galena FOL

Galena

Galena, AK 99741

Inquiry Number: 2561819.4

August 11, 2009

The EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: Nulato (C-2), AK MAP YEAR: 1952</p>	<p>SITE NAME: Galena FOL ADDRESS: Galena Galena, AK 99741 LAT/LONG: 64.7418 / 156.944</p>	<p>CLIENT: Earth Tech Inc. CONTACT: Dave Jury INQUIRY#: 2561819.4 RESEARCH DATE: 08/11/2009</p>
	<p>SERIES: 15 SCALE: 1:63,360</p>		



Galena FOL

Galena

Galena, AK 99741

Inquiry Number: 2561819.3

August 11, 2009

Certified Sanborn® Map Report

Certified Sanborn® Map Report

8/11/09

Site Name:

Galena FOL
Galena
Galena, AK 99741

Client Name:

Earth Tech Inc.
1461 E. Cooley Drive
Colton, CA 92324

EDR Inquiry # 2561819.3

Contact: Dave Jury



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Earth Tech Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Galena FOL
Address: Galena
City, State, Zip: Galena, AK 99741
Cross Street:
P.O. # NA
Project: NA
Certification # 32D0-4CEF-8376



Sanborn® Library search results
Certification # 32D0-4CEF-8376

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

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Galena FOL

Galena
Galena, AK 99741

Inquiry Number: 2561819.8
August 11, 2009

The EDR Property Tax Map Report

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

NO COVERAGE

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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Galena FOL

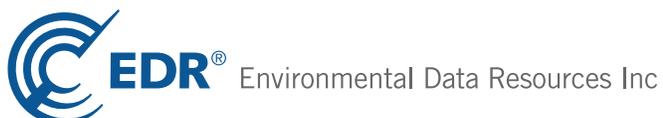
Galena

Galena, AK 99765

Inquiry Number: 2561819.2s

August 11, 2009

The EDR Radius Map™ Report with GeoCheck®



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Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

GALENA
GALENA, AK 99765

COORDINATES

Latitude (North): 64.741800 - 64° 44' 30.5"
Longitude (West): 156.944900 - 156° 56' 41.6"
Universal Transverse Mercator: Zone 4
UTM X (Meters): 597836.8
UTM Y (Meters): 7181072.5
Elevation: 128 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: N/A
Source: USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

EXECUTIVE SUMMARY

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Transporters, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators

RCRA-SQG..... RCRA - Small Quantity Generators

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... Contaminated Sites Database

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Facilities

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST..... Underground Storage Tank Database

AST..... Regulated Aboveground Storage Tanks

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Controls Site Listing

INST CONTROL..... Contaminated Sites with Institutional Controls

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program sites

EXECUTIVE SUMMARY

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Identified and/or Proposed Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

CDL..... Illegal Drug Manufacturing Sites

Local Land Records

LIENS 2..... CERCLA Lien Information

LUCIS..... Land Use Control Information System

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

Other Ascertainable Records

RCRA-NonGen..... RCRA - Non Generators

DOT OPS..... Incident and Accident Data

FUDS..... Formerly Used Defense Sites

CONSENT..... Superfund (CERCLA) Consent Decrees

ROD..... Records Of Decision

UMTRA..... Uranium Mill Tailings Sites

MINES..... Mines Master Index File

TRIS..... Toxic Chemical Release Inventory System

TSCA..... Toxic Substances Control Act

FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS..... Integrated Compliance Information System

PADS..... PCB Activity Database System

MLTS..... Material Licensing Tracking System

RADINFO..... Radiation Information Database

FINDS..... Facility Index System/Facility Registry System

RAATS..... RCRA Administrative Action Tracking System

DRYCLEANERS..... Drycleaner Facility Listing

EXECUTIVE SUMMARY

AIRS..... AIRS Facility Listing
INDIAN RESERV..... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Pollution Control & Ecology's LUST Notice Information.

A review of the LUST list, as provided by EDR, and dated 06/08/2009 has revealed that there is 1 LUST site within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GALENA AIRPORT - UST 1552 Facility Status: Cleanup Complete Facility Status: Open	GALENA,	0 - 1/8 (0.000 mi.)	A16	24

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

SPILLS: The Alaska Spills database.

A review of the SPILLS list, as provided by EDR, and dated 05/29/2009 has revealed that there are 15

EXECUTIVE SUMMARY

SPILLS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GALENA CITY, YUKON FUEL Case Closed: 9/21/2001 Case Closed: 9/28/1995	GALENA CITY, YUKON FUEL	0 - 1/8 (0.000 mi.)	A1	7
GALENA CITY Case Closed: 7/28/1998 Case Closed: 5/31/2002 <i>*Additional key fields are available in the Map Findings section</i>	GALENA CITY	0 - 1/8 (0.000 mi.)	A2	8
GALENA CITY, AIR FORCE STATION Case Closed: 12/4/2000	GALENA CITY, AIR FORCE	0 - 1/8 (0.000 mi.)	A3	10
GALENA CITY, USMX. Case Closed: 11/14/1997	GALENA CITY, USMX.	0 - 1/8 (0.000 mi.)	A4	11
GALENA CITY, ILLINOIS CREEK MI Case Closed: 10/3/1997	GALENA CITY, ILLINOIS C	0 - 1/8 (0.000 mi.)	A5	11
GALENA CITY AIRPORT Case Closed: 2/28/2007 Case Closed: 6/10/2002 <i>*Additional key fields are available in the Map Findings section</i>	GALENA CITY AIRPORT	0 - 1/8 (0.000 mi.)	A6	12
GALENA CITY, INDIAN MOUNTAIN L Case Closed: 6/4/2001 Case Closed: 6/4/2001 <i>*Additional key fields are available in the Map Findings section</i>	GALENA CITY, INDIAN MOU	0 - 1/8 (0.000 mi.)	A7	15
GALENA CITY, YUKON FUEL. Case Closed: 9/29/1997	GALENA CITY, YUKON FUEL	0 - 1/8 (0.000 mi.)	A8	16
GALENA CITY, USMX ILLINOIS CRE Case Closed: 11/2/1997	GALENA CITY, USMX ILLIN	0 - 1/8 (0.000 mi.)	A9	17
GALENA CITY, AIRFORCE STATION. Case Closed: 4/22/1998 Case Closed: 10/5/2001 <i>*Additional key fields are available in the Map Findings section</i>	GALENA CITY, AIRFORCE S	0 - 1/8 (0.000 mi.)	A10	17
GALENA CITY, GALENA AIR FORCE Case Closed: 5/27/1998	GALENA CITY, GALENA AIR	0 - 1/8 (0.000 mi.)	A11	20
GALENA CITY, YUKON RIVER BEACH Case Closed: 9/8/1998 Case Closed: 10/15/2001 <i>*Additional key fields are available in the Map Findings section</i>	GALENA CITY, YUKON RIVE	0 - 1/8 (0.000 mi.)	A12	21
GALENA CITY, FRONT STREET Case Closed: 10/5/2000	GALENA CITY, FRONT STRE	0 - 1/8 (0.000 mi.)	A13	23
GALENA CITY, GARY BURGETT'S HO Case Closed: 12/1/1998	GALENA CITY, GARY BURGE	0 - 1/8 (0.000 mi.)	A14	23
GALENA CITY, GALENA LIQUOR STO Case Closed: 1/5/1999	GALENA CITY, GALENA LIQ	0 - 1/8 (0.000 mi.)	A15	24

EXECUTIVE SUMMARY

Other Ascertainable Records

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 2 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GALENA AIR FORCE BASE		ENE 1/2 - 1 (0.676 mi.)	0	7

NPDES: A listing of permitted wastewater facilities.

A review of the NPDES list, as provided by EDR, and dated 11/24/2006 has revealed that there are 3 NPDES sites within approximately 1 mile of the target property.

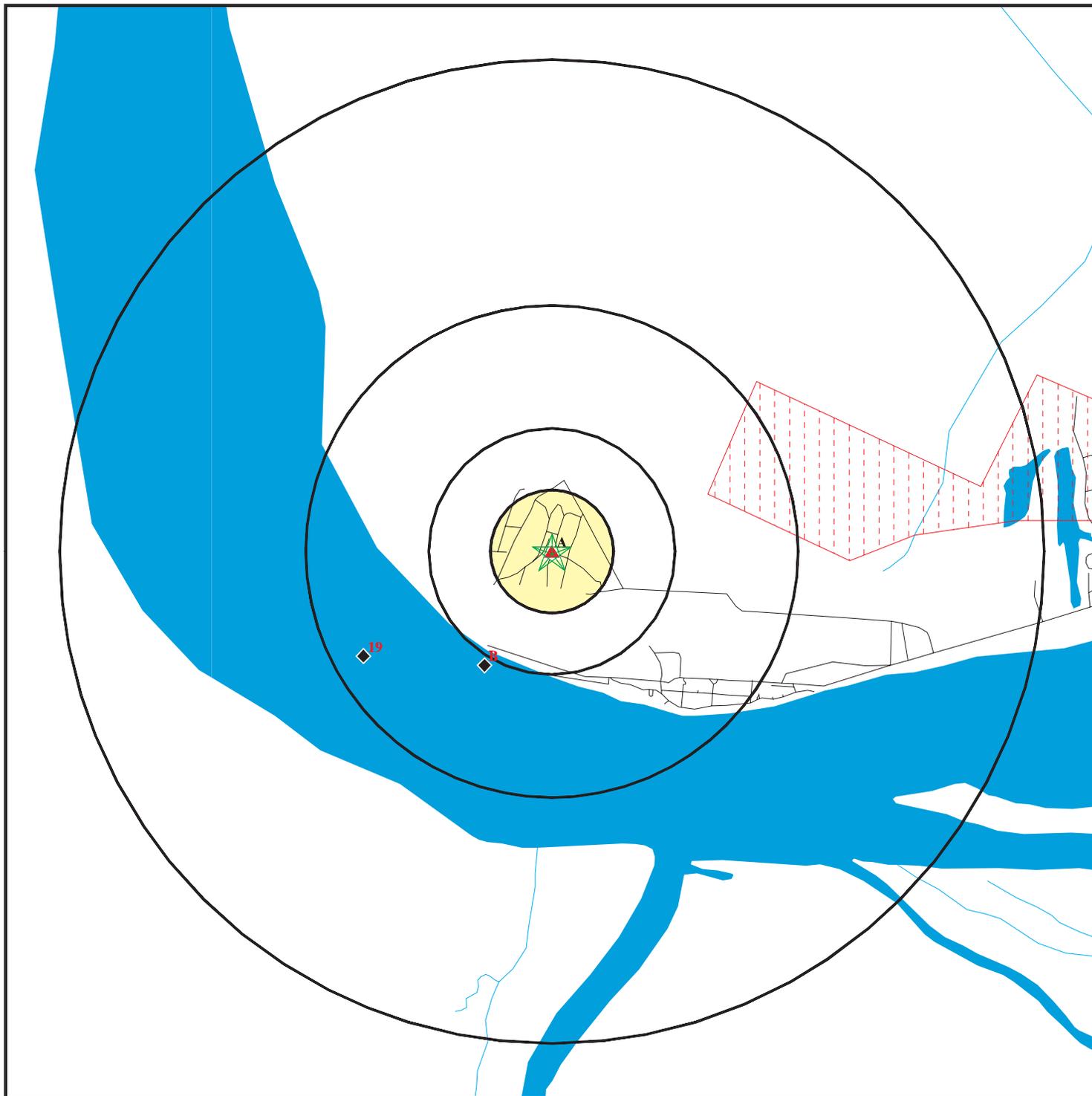
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
YUKON RIVER 148	SEC, 5,6, T9S, R10E, KA	SSW 1/2 - 1 (0.538 mi.)	B17	25
YUKON FUEL CO GALENA TANK FARM	7941 SANDALWOOD PL NO 1	SSW 1/2 - 1 (0.539 mi.)	B18	26
YUKON RIVER WILDER GRAVEL EXTR	SEC. 6, T9S, R10E, KRM	WSW 1/2 - 1 (0.876 mi.)	19	27

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
ANDREW DEMOSKI SCHOOL	SHWS
RESIDENCE - BLOCK 2 LOT 4 NULATO H	SHWS
CITY OF NULATO	SHWS
NULATO WEATHER STATION	CERC-NFRAP
GALENA, BLM WAREHOUSE YARD	SPILLS
GALENA DUMP	ODI

OVERVIEW MAP - 2561819.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ▣ National Priority List Sites
- ▣ Dept. Defense Sites

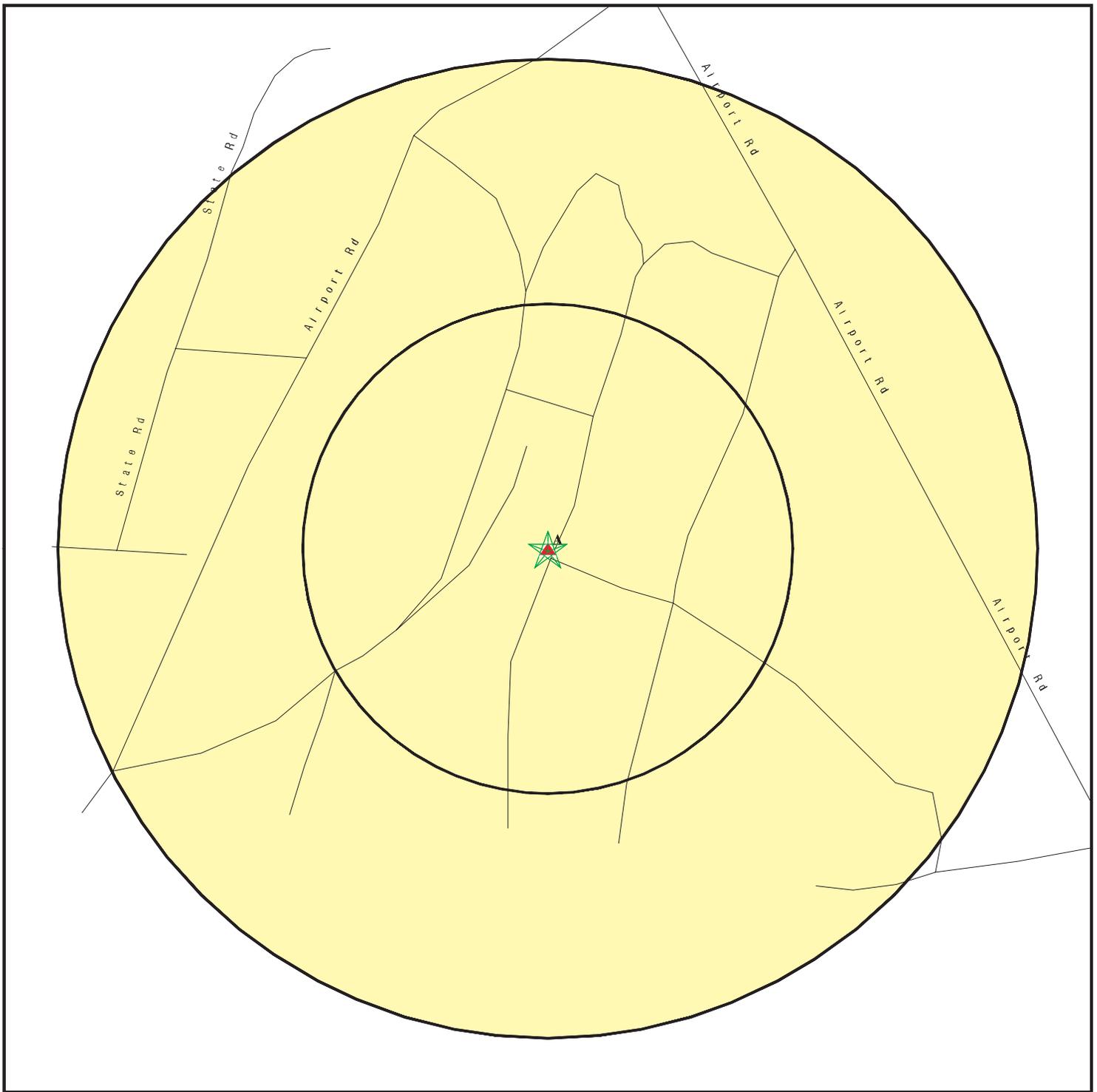


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

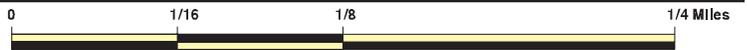
SITE NAME: Galena FOL
 ADDRESS: Galena
 Galena AK 99765
 LAT/LONG: 64.7418 / 156.9449

CLIENT: Earth Tech Inc.
 CONTACT: Dave Jury
 INQUIRY #: 2561819.2s
 DATE: August 11, 2009 3:54 pm

DETAIL MAP - 2561819.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites



 Indian Reservations BIA



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Galena FOL
 ADDRESS: Galena
 Galena AK 99765
 LAT/LONG: 64.7418 / 156.9449

CLIENT: Earth Tech Inc.
 CONTACT: Dave Jury
 INQUIRY #: 2561819.2s
 DATE: August 11, 2009 3:54 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL		2.000	0	0	0	0	0	0
Proposed NPL		2.000	0	0	0	0	0	0
NPL LIENS		1.000	0	0	0	0	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL		2.000	0	0	0	0	0	0
<i>Federal CERCLIS list</i>								
CERCLIS		1.500	0	0	0	0	0	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP		1.500	0	0	0	0	0	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS		2.000	0	0	0	0	0	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF		1.500	0	0	0	0	0	0
<i>Federal RCRA generators list</i>								
RCRA-LQG		1.250	0	0	0	0	0	0
RCRA-SQG		1.250	0	0	0	0	0	0
RCRA-CESQG		1.250	0	0	0	0	0	0
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS		1.500	0	0	0	0	0	0
US INST CONTROL		1.500	0	0	0	0	0	0
<i>Federal ERNS list</i>								
ERNS		1.000	0	0	0	0	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS		2.000	0	0	0	0	0	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF		1.500	0	0	0	0	0	0
<i>State and tribal leaking storage tank lists</i>								
LUST		1.500	1	0	0	0	0	1
INDIAN LUST		1.500	0	0	0	0	0	0
<i>State and tribal registered storage tank lists</i>								
UST		1.250	0	0	0	0	0	0
AST		1.250	0	0	0	0	0	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN UST		1.250	0	0	0	0	0	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS		1.500	0	0	0	0	0	0
INST CONTROL		1.500	0	0	0	0	0	0
State and tribal voluntary cleanup sites								
VCP		1.500	0	0	0	0	0	0
INDIAN VCP		1.500	0	0	0	0	0	0
State and tribal Brownfields sites								
BROWNFIELDS		1.500	0	0	0	0	0	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		1.500	0	0	0	0	0	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI		1.500	0	0	0	0	0	0
DEBRIS REGION 9		1.500	0	0	0	0	0	0
INDIAN ODI		1.500	0	0	0	0	0	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		1.000	0	0	0	0	NR	0
CDL		1.000	0	0	0	0	NR	0
Local Land Records								
LIENS 2		1.000	0	0	0	0	NR	0
LUCIS		1.500	0	0	0	0	0	0
Records of Emergency Release Reports								
HMIRS		1.000	0	0	0	0	NR	0
SPILLS		1.000	15	0	0	0	NR	15
Other Ascertainable Records								
RCRA-NonGen		1.250	0	0	0	0	0	0
DOT OPS		1.000	0	0	0	0	NR	0
DOD		2.000	0	0	0	1	0	1
FUDS		2.000	0	0	0	0	0	0
CONSENT		2.000	0	0	0	0	0	0
ROD		2.000	0	0	0	0	0	0
UMTRA		1.500	0	0	0	0	0	0
MINES		1.250	0	0	0	0	0	0
TRIS		1.000	0	0	0	0	NR	0
TSCA		1.000	0	0	0	0	NR	0
FTTS		1.000	0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST FTTS		1.000	0	0	0	0	NR	0
SSTS		1.000	0	0	0	0	NR	0
ICIS		1.000	0	0	0	0	NR	0
PADS		1.000	0	0	0	0	NR	0
MLTS		1.000	0	0	0	0	NR	0
RADINFO		1.000	0	0	0	0	NR	0
FINDS		1.000	0	0	0	0	NR	0
RAATS		1.000	0	0	0	0	NR	0
DRYCLEANERS		1.250	0	0	0	0	0	0
NPDES		1.000	0	0	0	3	NR	3
AIRS		1.000	0	0	0	0	NR	0
INDIAN RESERV		2.000	0	0	0	0	0	0
SCRD DRYCLEANERS		1.500	0	0	0	0	0	0

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants		2.000	0	0	0	0	0	0
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOD
Region
ENE
1/2-1
3569 ft.

GALENA AIR FORCE BASE
GALENA AIR FORCE BASE (County), AK

DOD **CUSA148247**
N/A

DOD:

Feature 1: Air Force DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported
Name 1: Galena Air Force Base
Name 2: Not reported
Name 3: Not reported
State: AK
DOD Site: Yes
Tile name: AKYUKON-KOYUKUK

A1
< 1/8
1 ft.

GALENA CITY, YUKON FUEL
GALENA CITY, YUKON FUEL
GALENA CITY, AK

SPILLS **S104925134**
N/A

Site 1 of 16 in cluster A

Relative:
Equal

AK Spills:

Actual:
128 ft.

Facility ID: 01309926301
Spill ID: 16586
Spill Date: 9/20/2001
Case Closed: 9/21/2001
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 40.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Valve Failure
Cause Type: Structural/Mechanical
Responsible Party: YUKON FUEL CO.
Facility Type: Crude Oil Terminal
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Stark, Amanda [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: First and Final
Response: Took Report
Substance Notice: Not reported

Facility ID: 95309925901
Spill ID: 5181
Spill Date: 9/16/1995
Case Closed: 9/28/1995
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 250.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Equipment Failure
Cause Type: Structural/Mechanical

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA CITY, YUKON FUEL (Continued)

S104925134

Responsible Party: YUTANA BARGE LINES
Facility Type: Vessel
Facility Subject Type: Barge
Substance Area: Interior Alaska
Staff Name: Rogers, Randy [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Phone Follow-up
Substance Notice: NO ENTRY

A2
< 1/8
1 ft.

GALENA CITY
GALENA CITY
GALENA CITY, AK

SPILLS S104925090
N/A

Site 2 of 16 in cluster A

Relative:
Equal

AK Spills:
Facility ID: 98309918802
Spill ID: 11952
Spill Date: 7/7/1998
Case Closed: 7/28/1998
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 15.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Seal Failure
Cause Type: Structural/Mechanical
Responsible Party: WATER JOINT VENTURES
Facility Type: Vehicle
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Adler, Kemberly [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: First and Final
Response: Took Report
Substance Notice: NO ENTRY - RECYCLED

Actual:
128 ft.

Facility ID: 02309914202
Spill ID: 17085
Spill Date: 5/22/2002
Case Closed: 5/31/2002
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Used Oil (all types)
Quantity Released: 5.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Overfill
Cause Type: Human Factors
Responsible Party: GALENA AFS
Facility Type: Other
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Stark, Amanda [Inactive]

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA CITY (Continued)

S104925090

Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: First and Final
Response: Phone Follow-up
Substance Notice: Not reported

Facility ID: 04309923102
Spill ID: 22836
Spill Date: 8/18/2004
Case Closed: 9/10/2004
Spill Name: Not reported
Substance ID: Extremely Hazardous Substance
Substance Subject Type: Sulfuric Acid
Quantity Released: 5.000
Quantity Potential: Not reported
Unit: Gallons
Cause: External Factors
Cause Type: Other
Responsible Party: ALASKA FIRE SERVICE
Facility Type: Maintenance Yard/Shop
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Stark, Amanda [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Took Report
Substance Notice: Not reported

Facility ID: 04309923102
Spill ID: 22836
Spill Date: 8/18/2004
Case Closed: 9/10/2004
Spill Name: Not reported
Substance ID: Extremely Hazardous Substance
Substance Subject Type: Sulfuric Acid
Quantity Released: 5.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Explosion
Cause Type: Other
Responsible Party: ALASKA FIRE SERVICE
Facility Type: Maintenance Yard/Shop
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Stark, Amanda [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Took Report
Substance Notice: Not reported

Facility ID: 95309922804
Spill ID: 5136
Spill Date: 8/16/1995
Case Closed: 12/29/1995
Spill Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA CITY (Continued)

S104925090

Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 55.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Human Error
Cause Type: Human Factors
Responsible Party: YUTANA
Facility Type: Transmission Pipeline
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Meggert, Ed
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Phone Follow-up
Substance Notice: NO ENTRY

A3

**GALENA CITY, AIR FORCE STATION PIPELINE, SOMEWHERE
GALENA CITY, AIR FORCE STATION PIPELINE, SOMEWHERE
GALENA CITY, AK**

**SPILLS S104930920
N/A**

**< 1/8
1 ft.**

Site 3 of 16 in cluster A

**Relative:
Equal**

AK Spills:
Facility ID: 99309917701
Spill ID: 14680
Spill Date: 6/26/1999
Case Closed: 12/4/2000
Spill Name: Galena Air Force Pipeline Corrosion
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 200.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Corrosion
Cause Type: Structural/Mechanical
Responsible Party: GALENA AIR FORCE STATION
Facility Type: Transmission Pipeline
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Conn, Jeff [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: No Ledger Code
Response: Phone Follow-up
Substance Notice: NO ENTRY

**Actual:
128 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

A4

GALENA CITY, USMX.
GALENA CITY, USMX.
GALENA CITY, AK

SPILLS S104928050
N/A

< 1/8
1 ft.

Site 4 of 16 in cluster A

Relative:
Equal

AK Spills:

Facility ID: 97309928602
Spill ID: 9545
Spill Date: 10/13/1997
Case Closed: 11/14/1997
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 10.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Overfill
Cause Type: Human Factors
Responsible Party: USMX
Facility Type: Vehicle
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Adler, Kemberly [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: No Ledger Code
Response: Took Report
Substance Notice: NO ENTRY - WASTE PERMIT

Actual:
128 ft.

A5

GALENA CITY, ILLINOIS CREEK MINE
GALENA CITY, ILLINOIS CREEK MINE
GALENA CITY, AK

SPILLS S104928033
N/A

< 1/8
1 ft.

Site 5 of 16 in cluster A

Relative:
Equal

AK Spills:

Facility ID: 97309926903
Spill ID: 9527
Spill Date: 9/26/1997
Case Closed: 10/3/1997
Spill Name: Not reported
Substance ID: Extremely Hazardous Substance
Substance Subject Type: Sodium Cyanide (Solid)
Quantity Released: 490.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Human Error
Cause Type: Human Factors
Responsible Party: USMX OF ALASKA
Facility Type: Other
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Adler, Kemberly [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: No Ledger Code
Response: Phone Follow-up
Substance Notice: ACTIVATED CARBON, SODIUM HYDROXIDE - ACTIVATED CARBON, SODIUM HYDROXIDE - PENDING - RECYCLED

Actual:
128 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A6

GALENA CITY AIRPORT
GALENA CITY AIRPORT
GALENA CITY, AK

SPILLS S104926421
N/A

< 1/8
1 ft.

Site 6 of 16 in cluster A

Relative:
Equal

AK Spills:

Actual:
128 ft.

Facility ID: 01309926201
Spill ID: 16585
Spill Date: 9/19/2001
Case Closed: 2/28/2007
Spill Name: Galena USAF Power Plant Spill at Airport
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 50.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Overfill
Cause Type: Human Factors
Responsible Party: CHUGACH DEVELOPMENTAL CORP.
Facility Type: Non-Crude Terminal
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Sandel, Walt [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: No Ledger Code
Response: Field Visit/s
Substance Notice: Not reported

Facility ID: 02309915801
Spill ID: 17013
Spill Date: 6/7/2002
Case Closed: 6/10/2002
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 4.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Leak
Cause Type: Structural/Mechanical
Responsible Party: YUKON FUEL CO.
Facility Type: Vehicle
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Wandell, Peggy
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: First and Final
Response: Took Report
Substance Notice: Not reported

Facility ID: 03309922402
Spill ID: 22234
Spill Date: 8/12/2003
Case Closed: 9/6/2003
Spill Name: Not reported
Substance ID: Noncrude Oil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA CITY AIRPORT (Continued)

S104926421

Substance Subject Type: Diesel
Quantity Released: 40.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Human Error
Cause Type: Human Factors
Responsible Party: US AIRFORCE
Facility Type: Air Transportation
Facility Subject Type: Airport/Airfield
Substance Area: Interior Alaska
Staff Name: Dixon, John [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Phone Follow-up
Substance Notice: Not reported

Facility ID: 03309922402
Spill ID: 22234
Spill Date: 8/12/2003
Case Closed: 9/6/2003
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 40.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Human Error
Cause Type: Human Factors
Responsible Party: Chugach Support Services
Facility Type: Air Transportation
Facility Subject Type: Airport/Airfield
Substance Area: Interior Alaska
Staff Name: Dixon, John [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Phone Follow-up
Substance Notice: Not reported

Facility ID: 04309917502
Spill ID: 22521
Spill Date: 6/23/2004
Case Closed: 7/1/2004
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 1.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Human Error
Cause Type: Human Factors
Responsible Party: Chugach Support Services
Facility Type: Maintenance Yard/Shop
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Stark, Amanda [Inactive]

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA CITY AIRPORT (Continued)

S104926421

Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Phone Follow-up
Substance Notice: Not reported

Facility ID: 04309918002
Spill ID: 22554
Spill Date: 6/28/2004
Case Closed: 7/1/2004
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 2.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Valve Failure
Cause Type: Structural/Mechanical
Responsible Party: Chugach Support Services
Facility Type: Air Transportation
Facility Subject Type: Airport/Airfield
Substance Area: Interior Alaska
Staff Name: Stark, Amanda [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Phone Follow-up
Substance Notice: Not reported

Facility ID: 96309903301
Spill ID: 6960
Spill Date: 2/2/1996
Case Closed: 2/21/1996
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Engine Lube Oil
Quantity Released: 13.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Unknown
Cause Type: Unknown
Responsible Party: ALEXANDER TED
Facility Type: Unknown
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Groner, Jeanine [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: First and Final
Response: Took Report
Substance Notice: NO ENTRY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A7 GALENA CITY, INDIAN MOUNTAIN LONG RANGE RADAR SITE
GALENA CITY, INDIAN MOUNTAIN LONG RANGE RADAR SITE
< 1/8 GALENA CITY, AK
1 ft.

SPILLS S104246224
N/A

Site 7 of 16 in cluster A

Relative:
Equal

AK Spills:
Facility ID: 99309930002
Spill ID: 14827
Spill Date: 10/27/1999
Case Closed: 6/4/2001
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 50.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Equipment Failure
Cause Type: Structural/Mechanical
Responsible Party: PMC FRONTEC
Facility Type: Other
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Sandel, Walt [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: No Ledger Code
Response: Phone Follow-up
Substance Notice: NO ENTRY - OIT - SORBENT PADS

Actual:
128 ft.

Facility ID: 99309930002
Spill ID: 14827
Spill Date: 10/27/1999
Case Closed: 6/4/2001
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 50.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Equipment Failure
Cause Type: Structural/Mechanical
Responsible Party: US AIR FORCE
Facility Type: Other
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Sandel, Walt [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: No Ledger Code
Response: Phone Follow-up
Substance Notice: NO ENTRY - OIT - SORBENT PADS

Facility ID: 99309930002
Spill ID: 14827
Spill Date: 10/27/1999
Case Closed: 6/4/2001
Spill Name: Not reported
Substance ID: Noncrude Oil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA CITY, INDIAN MOUNTAIN LONG RANGE RADAR SITE (Continued)

S104246224

Substance Subject Type: Diesel
Quantity Released: 50.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Equipment Failure
Cause Type: Structural/Mechanical
Responsible Party: DAMES & MOORE
Facility Type: Other
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Sandel, Walt [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: No Ledger Code
Response: Phone Follow-up
Substance Notice: NO ENTRY - OIT - SORBENT PADS

Facility ID: 03309915001
Spill ID: 20598
Spill Date: 5/30/2003
Case Closed: 6/4/2003
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Hydraulic Oil
Quantity Released: 2.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Leak
Cause Type: Structural/Mechanical
Responsible Party: ARCTEC ALASKA
Facility Type: Other
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Stark, Amanda [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Took Report
Substance Notice: Not reported

A8

**GALENA CITY, YUKON FUEL.
GALENA CITY, YUKON FUEL.
GALENA CITY, AK**

**SPILLS S104928037
N/A**

**< 1/8
1 ft.**

Site 8 of 16 in cluster A

**Relative:
Equal**

AK Spills:
Facility ID: 97309927201
Spill ID: 9531
Spill Date: 9/29/1997
Case Closed: 9/29/1997
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 7.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Valve Failure

**Actual:
128 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA CITY, YUKON FUEL. (Continued)

S104928037

Cause Type: Structural/Mechanical
Responsible Party: YUKON FUEL
Facility Type: Air Transportation
Facility Subject Type: Aircraft
Substance Area: Interior Alaska
Staff Name: Adler, Kemberly [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: No Ledger Code
Response: Phone Follow-up
Substance Notice: NO ENTRY

A9
< 1/8
1 ft.

GALENA CITY, USMX ILLINOIS CREEK.
GALENA CITY, USMX ILLINOIS CREEK.
GALENA CITY, AK

SPILLS S104928075
N/A

Site 9 of 16 in cluster A

Relative:
Equal

AK Spills:
Facility ID: 97309930401
Spill ID: 9570
Spill Date: 10/31/1997
Case Closed: 11/2/1997
Spill Name: Not reported
Substance ID: Hazardous Substance
Substance Subject Type: Other
Quantity Released: 85.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Leak
Cause Type: Structural/Mechanical
Responsible Party: USMX
Facility Type: Other
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: DeRuyter, Tom
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: No Ledger Code
Response: Took Report
Substance Notice: MURATE ACID - MURATE ACID - NEUTRALIZED

Actual:
128 ft.

A10
< 1/8
1 ft.

GALENA CITY, AIRFORCE STATION.
GALENA CITY, AIRFORCE STATION.
GALENA CITY, AK

SPILLS S104929343
N/A

Site 10 of 16 in cluster A

Relative:
Equal

AK Spills:
Facility ID: 98309909102
Spill ID: 11843
Spill Date: 4/1/1998
Case Closed: 4/22/1998
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Engine Lube Oil

Actual:
128 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA CITY, AIRFORCE STATION. (Continued)

S104929343

Quantity Released: 3.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Cargo Not Secured
Cause Type: Human Factors
Responsible Party: CHUGIAK DEVELOPMENT CORP.
Facility Type: Other
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Adler, Kemberly [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: First and Final
Response: Took Report
Substance Notice: NO ENTRY - EXCAVATED SOIL

Facility ID: 01309927602
Spill ID: 15668
Spill Date: 10/3/2001
Case Closed: 10/5/2001
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 210.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Valve Failure
Cause Type: Structural/Mechanical
Responsible Party: US AIR FORCE
Facility Type: Air Transportation
Facility Subject Type: Airport/Airfield
Substance Area: Interior Alaska
Staff Name: Dixon, John [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: No Ledger Code
Response: Phone Follow-up
Substance Notice: Not reported

Facility ID: 03309910601
Spill ID: 19323
Spill Date: 4/16/2003
Case Closed: 5/7/2003
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 47.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Human Error
Cause Type: Human Factors
Responsible Party: US AIR FORCE
Facility Type: Air Transportation
Facility Subject Type: Airport/Airfield
Substance Area: Interior Alaska
Staff Name: Stark, Amanda [Inactive]
Area Name: Northern Alaska

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA CITY, AIRFORCE STATION. (Continued)

S104929343

Ledger Code: Not reported
Case Load: Not reported
Response: Field Visit/s
Substance Notice: Not reported

Facility ID: 04309915003
Spill ID: 22416
Spill Date: 5/29/2004
Case Closed: 8/30/2005
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 10.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Seal Failure
Cause Type: Structural/Mechanical
Responsible Party: YUTANA BARGE LINES
Facility Type: Vessel
Facility Subject Type: Barge
Substance Area: Interior Alaska
Staff Name: Stark, Amanda [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Took Report
Substance Notice: Not reported

Facility ID: 05309916002
Spill ID: 24536
Spill Date: 6/9/2005
Case Closed: 3/6/2008
Spill Name: Galena Air Force Excavator Spill
Substance ID: Noncrude Oil
Substance Subject Type: Hydraulic Oil
Quantity Released: 35.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Line Failure
Cause Type: Structural/Mechanical
Responsible Party: Yukaana Development
Facility Type: Air Transportation
Facility Subject Type: Airport/Airfield
Substance Area: Interior Alaska
Staff Name: Lhotka, Paul
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Phone Follow-up
Substance Notice: Not reported

Facility ID: 05309920701
Spill ID: 24701
Spill Date: 7/26/2005
Case Closed: 8/10/2005
Spill Name: Chugach Support Ser Monthly
Substance ID: Noncrude Oil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA CITY, AIRFORCE STATION. (Continued)

S104929343

Substance Subject Type: Aviation Fuel
Quantity Released: 3.000
Quantity Potential: 3.000
Unit: Gallons
Cause: Line Failure
Cause Type: Structural/Mechanical
Responsible Party: Chugach Support Services
Facility Type: Other
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Wandell, Peggy
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Took Report
Substance Notice: Not reported

A11

**GALENA CITY, GALENA AIR FORCE STATION, POWER PLANT
GALENA CITY, GALENA AIR FORCE STATION, POWER PLANT
GALENA CITY, AK**

**SPILLS S104929364
N/A**

< 1/8
1 ft.

Site 11 of 16 in cluster A

**Relative:
Equal**

AK Spills:
Facility ID: 98309910701
Spill ID: 11864
Spill Date: 4/17/1998
Case Closed: 5/27/1998
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 1.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Overfill
Cause Type: Human Factors
Responsible Party: GALENA AFS
Facility Type: Power Generation
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Adler, Kemberly [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: First and Final
Response: Took Report
Substance Notice: NO ENTRY

**Actual:
128 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

A12 GALENA CITY, YUKON RIVER BEACH
GALENA CITY, YUKON RIVER BEACH
< 1/8 GALENA CITY, AK
1 ft.

SPILLS S104929503
N/A

Site 12 of 16 in cluster A

Relative:
Equal

AK Spills:

Actual:
128 ft.

Facility ID: 98309923802
Spill ID: 12005
Spill Date: 8/23/1998
Case Closed: 9/8/1998
Spill Name: Coastal Marine Spill at Galena
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 20.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Human Error
Cause Type: Human Factors
Responsible Party: COASTAL MARINE TRANSPORT, INC.
Facility Type: Vessel
Facility Subject Type: Other, under 400 GT
Substance Area: Interior Alaska
Staff Name: Dixon, John [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: No Ledger Code
Response: Phone Follow-up
Substance Notice: NO ENTRY

Facility ID: 01309928802
Spill ID: 20963
Spill Date: 10/15/2001
Case Closed: 10/15/2001
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 1.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Crack
Cause Type: Structural/Mechanical
Responsible Party: YUTANA BARGE LINES
Facility Type: Vessel
Facility Subject Type: Barge
Substance Area: Interior Alaska
Staff Name: Dixon, John [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Took Report
Substance Notice: Not reported

Facility ID: 04309915701
Spill ID: 22184
Spill Date: 6/5/2004
Case Closed: 6/26/2004
Spill Name: Inclement Weather Ruptured Pipe
Substance ID: Noncrude Oil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA CITY, YUKON RIVER BEACH (Continued)

S104929503

Substance Subject Type: Diesel
Quantity Released: 1000.000
Quantity Potential: Not reported
Unit: Gallons
Cause: External Factors
Cause Type: Other
Responsible Party: CITY OF GALENA
Facility Type: Transmission Pipeline
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Stark, Amanda [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Field Visit/s
Substance Notice: Not reported

Facility ID: 04309921902
Spill ID: 23009
Spill Date: 8/6/2004
Case Closed: 9/1/2004
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Engine Lube Oil
Quantity Released: 2.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Puncture
Cause Type: Structural/Mechanical
Responsible Party: YUKON FUEL CO/YUTANA BARGE
Facility Type: Harbor/Port
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Wandell, Peggy
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Took Report
Substance Notice: Not reported

Facility ID: 04309921902
Spill ID: 23009
Spill Date: 8/6/2004
Case Closed: 9/1/2004
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Engine Lube Oil
Quantity Released: 2.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Cargo Not Secured
Cause Type: Human Factors
Responsible Party: YUKON FUEL CO/YUTANA BARGE
Facility Type: Harbor/Port
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Wandell, Peggy

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA CITY, YUKON RIVER BEACH (Continued)

S104929503

Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: Not reported
Response: Took Report
Substance Notice: Not reported

A13
< 1/8
1 ft.

GALENA CITY, FRONT STREET
GALENA CITY, FRONT STREET
GALENA CITY, AK

SPILLS S105544855
N/A

Site 13 of 16 in cluster A

Relative:
Equal

AK Spills:
Facility ID: 00309926801
Spill ID: 1837
Spill Date: 9/24/2000
Case Closed: 10/5/2000
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Gasoline
Quantity Released: 40.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Rollover/Capsize
Cause Type: Accident
Responsible Party: KHOTAL RENTAL CO
Facility Type: Vehicle
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Stark, Amanda [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: First and Final
Response: Took Report
Substance Notice: NO ENTRY - INCINERATED

Actual:
128 ft.

A14
< 1/8
1 ft.

GALENA CITY, GARY BURGETT'S HOUSE TANK
GALENA CITY, GARY BURGETT'S HOUSE TANK
GALENA CITY, AK

SPILLS S104929591
N/A

Site 14 of 16 in cluster A

Relative:
Equal

AK Spills:
Facility ID: 98309933501
Spill ID: 12094
Spill Date: 12/1/1998
Case Closed: 12/1/1998
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Diesel
Quantity Released: 10.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Human Error
Cause Type: Human Factors
Responsible Party: BURGETT GARY

Actual:
128 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA CITY, GARY BURGETT'S HOUSE TANK (Continued)

S104929591

Facility Type: Residence
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Mulkey, Darren [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: No Ledger Code
Response: Phone Follow-up
Substance Notice: NO ENTRY

A15

**GALENA CITY, GALENA LIQUOR STORE
GALENA CITY, GALENA LIQUOR STORE
GALENA CITY, AK**

**SPILLS S104929584
N/A**

**< 1/8
1 ft.**

Site 15 of 16 in cluster A

**Relative:
Equal**

AK Spills:
Facility ID: 98309932201
Spill ID: 12087
Spill Date: 11/18/1998
Case Closed: 1/5/1999
Spill Name: Not reported
Substance ID: Noncrude Oil
Substance Subject Type: Gasoline
Quantity Released: 10.000
Quantity Potential: Not reported
Unit: Gallons
Cause: Overfill
Cause Type: Human Factors
Responsible Party: YUKON FUEL COMPANY
Facility Type: Other
Facility Subject Type: Not reported
Substance Area: Interior Alaska
Staff Name: Dixon, John [Inactive]
Area Name: Northern Alaska
Ledger Code: Not reported
Case Load: First and Final
Response: Phone Follow-up
Substance Notice: NO ENTRY

**Actual:
128 ft.**

A16

**GALENA AIRPORT - UST 1552
GALENA,
GALENA, AK 99741**

**LUST S105096341
N/A**

**< 1/8
1 ft.**

Site 16 of 16 in cluster A

**Relative:
Equal**

LUST:
Facility Status: Cleanup Complete
Record Key: 199131X010501
Owner: 611 CES/CC Elmendorf AFB
Release Date: 4/15/1991
File ID: 860.26.002
Lat/Lon: 64.739974000000004 -156.95698200000001
Comment: This database entry is an outdated relic that generally describes the Air Force cleanup of the Galena Airport under CERCLA, and therefore is administratively closed. Please see the Contaminated Sites Database entries under "Galena AFS"

**Actual:
128 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALENA AIRPORT - UST 1552 (Continued)

S105096341

for more complete and current information. The leak test failure noted in 1991 almost certainly pertains to leak tests conducted at Million Gallon Hill and the Power Plant Tank #49, both of which are Air Force Installation Restoration Program sites, and are tracked through the Contaminated Sites Database. Later entries (1999 2001) describe reports documenting other LUST sites, which now have LUST database entries specific to each tank.

Facility Status: Open
Record Key: 200531X030601
Owner: 611 CES/CC Elmendorf AFB
Release Date: 7/1/1998
File ID: 860.26.002
Lat/Lon: 64.739400000000003 -156.95099999999999
Comment: USTs 1552 stored diesel used to power a standby generator. It was removed in 1998 with no sampling conducted, and had further investigation in 1999 and 2001. One of the borings by the former tank location in 2001 had DRO just over Method 2 soil cleanup levels. This tank is managed under the Air Force Compliance program.

B17
SSW
1/2-1
0.538 mi.
2840 ft.

YUKON RIVER 148
SEC, 5,6, T9S, R10E, KATEEL RIVER MERIDI
UNKNOWN-MIGRATED, AK 0

NPDES S108186119
N/A

Site 1 of 2 in cluster B

Relative:
Lower

NPDES:
Facility Addr2: Galena Airport
Facility Type: Standard (All others)
Lat/Long: 64.73333 / 156.93333
Permit Status: Not migrated yet
Receiving Water: undetermined - migration
Permit Number: 4-2003-0204
Latitude Direction: N
Lat/Lon Type Code: LAT
Longitude Direction: W
Date Type: ACOE Dates
Issued Date/Time: Not reported
Expiration Date/Time: Not reported
Dec Date Type: Not reported
Dec Issue Date: Not reported
Dec Expiration Date: Not reported
Stormwater Receiving Water: Not reported

Actual:
127 ft.

NPDES:
Permit Type: 4-2003-0204
Date Type: ACOE Dates
Issued Date/Time: Not reported
Expiration Date/Time: Not reported
Dec Date Type: Not reported
Dec Issue Date: Not reported
Dec Expiration Date: Not reported

NPDES:
Receiving Water: undetermined - migration
Stormwater Receiving Water: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B18 YUKON FUEL CO GALENA TANK FARM FACILITY
SSW 7941 SANDALWOOD PL NO 100
1/2-1 ANCHORAGE, AK 99507
0.539 mi.
2848 ft. Site 2 of 2 in cluster B

NPDES S108033979
N/A

Relative:
Lower

NPDES:
Facility Addr2: Not reported
Facility Type: Standard (All others)
Lat/Long: 64.73330 / 156.93330
Permit Status: Not migrated yet
Receiving Water: Yukon River
Permit Number: 9940DB003-1010
Latitude Direction: N
Lat/Lon Type Code: LAT
Longitude Direction: W
Date Type: DEC Dates
Issued Date/Time: 7/2/2003
Expiration Date/Time: 7/13/2004
Dec Date Type: Not reported
Dec Issue Date: Not reported
Dec Expiration Date: Not reported
Stormwater Receiving Water: Not reported

Actual:
127 ft.

NPDES:
Permit Type: 9940DB003-1010
Date Type: DEC Dates
Issued Date/Time: 7/2/2003
Expiration Date/Time: 7/13/2004
Dec Date Type: Not reported
Dec Issue Date: Not reported
Dec Expiration Date: Not reported

NPDES:
Receiving Water: Yukon River
Stormwater Receiving Water: Not reported

Facility Addr2: Not reported
Facility Type: Standard (All others)
Lat/Long: 64.73330 / 156.93330
Permit Status: Not migrated yet
Receiving Water: Yukon River
Permit Number: 9940DB003-304
Latitude Direction: N
Lat/Lon Type Code: LAT
Longitude Direction: W
Date Type: DEC Dates
Issued Date/Time: 6/14/2001
Expiration Date/Time: 6/14/2002
Dec Date Type: Not reported
Dec Issue Date: Not reported
Dec Expiration Date: Not reported
Stormwater Receiving Water: Not reported

NPDES:
Permit Type: 9940DB003-304
Date Type: DEC Dates
Issued Date/Time: 6/14/2001
Expiration Date/Time: 6/14/2002

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

YUKON FUEL CO GALENA TANK FARM FACILITY (Continued)

S108033979

Dec Date Type: Not reported
Dec Issue Date: Not reported
Dec Expiration Date: Not reported

NPDES:

Receiving Water: Yukon River
Stormwater Receiving Water: Not reported

19
WSW
1/2-1
0.876 mi.
4624 ft.

YUKON RIVER WILDER GRAVEL EXTRACTION
SEC. 6, T9S, R10E, KRM
GALENA, AK 99741

NPDES S108186818
N/A

Relative:
Lower

NPDES:

Facility Addr2: sw of Galena Airport Dike
Facility Type: Standard (All others)
Lat/Long: 64.73333 / 156.95000
Permit Status: Not migrated yet
Receiving Water: undetermined - migration
Permit Number: POA-2003-1335-2
Latitude Direction: N
Lat/Lon Type Code: LAT
Longitude Direction: W
Date Type: ACOE Dates
Issued Date/Time: Not reported
Expiration Date/Time: Not reported
Dec Date Type: DEC Dates
Dec Issue Date: 4/7/2004 12:24
Dec Expiration Date: 4/6/2009 12:24
Stormwater Receiving Water: Not reported

NPDES:

Permit Type: POA-2003-1335-2
Date Type: ACOE Dates
Issued Date/Time: Not reported
Expiration Date/Time: Not reported
Dec Date Type: DEC Dates
Dec Issue Date: 4/7/2004 12:24
Dec Expiration Date: 4/6/2009 12:24

NPDES:

Receiving Water: undetermined - migration
Stormwater Receiving Water: Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
GALENA	S104925048	GALENA, BLM WAREHOUSE YARD	GALENA, BLM WAREHOUSE YARD		SPILLS
GALENA	1007443787	GALENA DUMP	NONDESCRIPT		ODI
NULATO	S105755223	ANDREW DEMOSKI SCHOOL	NW BANK OF YUKON RIVER	99765	SHWS
NULATO	S108980463	RESIDENCE - BLOCK 2 LOT 4 NULATO H	BLOCK 2 LOT 4	99765	SHWS
NULATO	S107029502	CITY OF NULATO	UNKNOWN	99765	SHWS
NULATO	1003880820	NULATO WEATHER STATION	36 MI W OF GALENA	99765	CERC-NFRAP

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/02/2009	Source: EPA
Date Data Arrived at EDR: 02/12/2009	Telephone: N/A
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 07/31/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/26/2009
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/23/2009	Source: EPA
Date Data Arrived at EDR: 04/28/2009	Telephone: N/A
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 07/31/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/26/2009
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 05/17/2009
Number of Days to Update: 56	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/02/2009	Source: EPA
Date Data Arrived at EDR: 02/12/2009	Telephone: N/A
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 07/31/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/26/2009
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/09/2009	Source: EPA
Date Data Arrived at EDR: 01/30/2009	Telephone: 703-412-9810
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 07/14/2009
Number of Days to Update: 101	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007	Source: EPA
Date Data Arrived at EDR: 12/06/2007	Telephone: 703-412-9810
Date Made Active in Reports: 02/20/2008	Last EDR Contact: 06/15/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: 09/14/2009
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2009	Source: EPA
Date Data Arrived at EDR: 04/02/2009	Telephone: 800-424-9346
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/01/2009
Number of Days to Update: 39	Next Scheduled EDR Contact: 08/31/2009
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 07/23/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 07/23/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 07/23/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 07/23/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/22/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/29/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/31/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/22/2009	Telephone: 703-603-0695
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 06/29/2009
Number of Days to Update: 13	Next Scheduled EDR Contact: 09/28/2009
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2008	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/30/2009	Telephone: 202-267-2180
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 07/21/2009
Number of Days to Update: 109	Next Scheduled EDR Contact: 10/19/2009
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Contaminated Sites Database

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 05/28/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/28/2009	Telephone: 907-451-2143
Date Made Active in Reports: 06/23/2009	Last EDR Contact: 06/08/2009
Number of Days to Update: 26	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 07/17/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 07/21/2009	Telephone: 907-269-7632
Date Made Active in Reports: 08/04/2009	Last EDR Contact: 07/21/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/19/2009
	Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 06/08/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 06/10/2009	Telephone: 907-465-5301
Date Made Active in Reports: 06/23/2009	Last EDR Contact: 06/10/2009
Number of Days to Update: 13	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/19/2009	Source: EPA Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/01/2009	Source: EPA Region 8
Date Data Arrived at EDR: 06/03/2009	Telephone: 303-312-6271
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 12/15/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2008	Telephone: 415-972-3372
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 90	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/04/2009	Source: EPA Region 10
Date Data Arrived at EDR: 06/05/2009	Telephone: 206-553-2857
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 12	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/24/2009	Source: EPA Region 7
Date Data Arrived at EDR: 05/20/2009	Telephone: 913-551-7003
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 05/20/2009
Number of Days to Update: 28	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/20/2009	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2009	Telephone: 214-665-6597
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/24/2009	Source: EPA Region 4
Date Data Arrived at EDR: 03/03/2009	Telephone: 404-562-8677
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal registered storage tank lists

UST: Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/08/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 06/10/2009	Telephone: 907-269-7504
Date Made Active in Reports: 06/24/2009	Last EDR Contact: 06/10/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Semi-Annually

AST: Regulated Aboveground Storage Tanks

The list covers "regulated" facilities with storage capacities above 10,000 barrels (or 5,000 barrels of crude).

Date of Government Version: 01/05/2005	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 01/06/2005	Telephone: 907-465-5231
Date Made Active in Reports: 02/02/2005	Last EDR Contact: 07/06/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 09/21/2009
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 06/04/2009	Source: EPA Region 10
Date Data Arrived at EDR: 06/05/2009	Telephone: 206-553-2857
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 12	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/15/2008	Source: EPA Region 9
Date Data Arrived at EDR: 12/16/2008	Telephone: 415-972-3368
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 90	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 06/01/2009	Source: EPA Region 8
Date Data Arrived at EDR: 06/03/2009	Telephone: 303-312-6137
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008	Source: EPA Region 7
Date Data Arrived at EDR: 12/30/2008	Telephone: 913-551-7003
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/22/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/20/2009	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2009	Telephone: 214-665-7591
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 09/08/2008	Source: EPA Region 5
Date Data Arrived at EDR: 09/19/2008	Telephone: 312-886-6136
Date Made Active in Reports: 10/16/2008	Last EDR Contact: 05/17/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/24/2009	Source: EPA Region 4
Date Data Arrived at EDR: 03/03/2009	Telephone: 404-562-9424
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/19/2009	Source: EPA, Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Site Listing

A listing of sites with engineering controls in place included in the Contaminated Sites.

Date of Government Version: 05/28/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/28/2009	Telephone: 907-451-2143
Date Made Active in Reports: 06/23/2009	Last EDR Contact: 06/08/2009
Number of Days to Update: 26	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Quarterly

Inst Control: Contaminated Sites with Institutional Controls

Contaminated sites that have institutional controls.

Date of Government Version: 05/28/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/28/2009	Telephone: 907-451-2143
Date Made Active in Reports: 06/23/2009	Last EDR Contact: 06/08/2009
Number of Days to Update: 26	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008	Source: EPA, Region 1
Date Data Arrived at EDR: 04/22/2008	Telephone: 617-918-1102
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/19/2009
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

VCP: Voluntary Cleanup Program sites

Sites involved in the Voluntary Cleanup Program.

Date of Government Version: 06/23/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 06/23/2009	Telephone: 907-451-2143
Date Made Active in Reports: 07/17/2009	Last EDR Contact: 06/23/2009
Number of Days to Update: 24	Next Scheduled EDR Contact: 09/21/2009
	Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Identified and/or Proposed Brownfields Sites

Brownfield properties are defined by U.S Environmental Protection Agency (EPA) as "real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contamination." DEC is developing resources to assist eligible entities in Alaska in applying for EPA brownfields grants. The program also will provide technical assistance and perform some site assessments. The purpose of these assessments is to assist local redevelopment efforts on previously contaminated properties that are vacant or underused.

Date of Government Version: 05/28/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/28/2009	Telephone: 907-451-2166
Date Made Active in Reports: 06/23/2009	Last EDR Contact: 06/08/2009
Number of Days to Update: 26	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 10/01/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/14/2008	Telephone: 202-566-2777
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 07/14/2009
Number of Days to Update: 39	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 03/25/2008	Source: EPA, Region 9
Date Data Arrived at EDR: 04/17/2008	Telephone: 415-972-3336
Date Made Active in Reports: 05/15/2008	Last EDR Contact: 07/13/2009
Number of Days to Update: 28	Next Scheduled EDR Contact: 09/21/2009
	Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 05/26/2009
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/24/2009
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 10/31/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 53

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/26/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: Quarterly

CDL: Illegal Drug Manufacturing Sites

A list of properties that have been determined to be illegal drug manufacturing sites.

Date of Government Version: 06/05/2009
Date Data Arrived at EDR: 06/12/2009
Date Made Active in Reports: 06/23/2009
Number of Days to Update: 11

Source: Department of Environmental Conservation
Telephone: 907-269-7543
Last EDR Contact: 06/12/2009
Next Scheduled EDR Contact: 09/07/2009
Data Release Frequency: Varies

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/29/2009
Date Data Arrived at EDR: 06/03/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 05/18/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 06/08/2009
Next Scheduled EDR Contact: 09/07/2009
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 43

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/16/2009
Next Scheduled EDR Contact: 10/12/2009
Data Release Frequency: Annually

SPILLS: Spills Database

Oil and hazardous substance releases to be reported to the Department of Environmental Conservation.

Date of Government Version: 05/29/2009
Date Data Arrived at EDR: 06/01/2009
Date Made Active in Reports: 06/23/2009
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 907-465-5242
Last EDR Contact: 07/27/2009
Next Scheduled EDR Contact: 10/26/2009
Data Release Frequency: Semi-Annually

Other Ascertainable Records

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/12/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/18/2008	Telephone: (206) 553-1200
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 07/23/2009
Number of Days to Update: 118	Next Scheduled EDR Contact: 10/19/2009
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 05/28/2008	Telephone: 202-366-4595
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 05/27/2009
Number of Days to Update: 72	Next Scheduled EDR Contact: 08/24/2009
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 703-692-8801
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 05/08/2009
Number of Days to Update: 62	Next Scheduled EDR Contact: 08/03/2009
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2007	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/05/2008	Telephone: 202-528-4285
Date Made Active in Reports: 09/23/2008	Last EDR Contact: 07/01/2009
Number of Days to Update: 18	Next Scheduled EDR Contact: 09/28/2009
	Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 01/27/2009	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 04/23/2009	Telephone: Varies
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 07/20/2009
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/19/2009
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/23/2009	Source: EPA
Date Data Arrived at EDR: 04/28/2009	Telephone: 703-416-0223
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 07/31/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/28/2009
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 01/05/2009	Source: Department of Energy
Date Data Arrived at EDR: 05/07/2009	Telephone: 505-845-0011
Date Made Active in Reports: 05/08/2009	Last EDR Contact: 06/15/2009
Number of Days to Update: 1	Next Scheduled EDR Contact: 09/14/2009
	Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/19/2009	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/24/2009	Telephone: 303-231-5959
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 06/23/2009
Number of Days to Update: 42	Next Scheduled EDR Contact: 09/21/2009
	Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2007	Source: EPA
Date Data Arrived at EDR: 04/09/2009	Telephone: 202-566-0250
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 06/16/2009
Number of Days to Update: 69	Next Scheduled EDR Contact: 09/14/2009
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/14/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/15/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/14/2009
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/15/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/14/2009
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006	Source: EPA
Date Data Arrived at EDR: 03/14/2008	Telephone: 202-564-4203
Date Made Active in Reports: 04/18/2008	Last EDR Contact: 07/14/2009
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 03/20/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/20/2009	Telephone: 202-564-5088
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 07/13/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 02/26/2009	Source: EPA
Date Data Arrived at EDR: 05/20/2009	Telephone: 202-566-0500
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 08/05/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 11/02/2009
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/02/2009	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/24/2009	Telephone: 301-415-7169
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 06/29/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/28/2009
	Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/28/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/29/2009	Telephone: 202-343-9775
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 07/28/2009
Number of Days to Update: 12	Next Scheduled EDR Contact: 10/26/2009
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/28/2009	Source: EPA
Date Data Arrived at EDR: 05/01/2009	Telephone: (206) 553-1200
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 06/29/2009
Number of Days to Update: 18	Next Scheduled EDR Contact: 09/28/2009
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2007	Source: EPA/NTIS
Date Data Arrived at EDR: 02/19/2009	Telephone: 800-424-9346
Date Made Active in Reports: 05/22/2009	Last EDR Contact: 06/08/2009
Number of Days to Update: 92	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Drycleaner Facility Listing

A listing of drycleaning facilities in Alaska.

Date of Government Version: 02/15/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/15/2006
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 907-269-7577
Last EDR Contact: 07/20/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: No Update Planned

NPDES: Wastwater Discharge Permit Listing

A listing of permitted wastewater facilities.

Date of Government Version: 11/24/2006
Date Data Arrived at EDR: 11/27/2006
Date Made Active in Reports: 12/21/2006
Number of Days to Update: 24

Source: Department of Environmental Conservation
Telephone: 907-465-5480
Last EDR Contact: 07/13/2009
Next Scheduled EDR Contact: 10/12/2009
Data Release Frequency: Varies

AIRS: AIRS Facility Listing

A listing of permitted airs facilities.

Date of Government Version: 05/05/2009
Date Data Arrived at EDR: 05/06/2009
Date Made Active in Reports: 05/21/2009
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 907-451-2103
Last EDR Contact: 08/03/2009
Next Scheduled EDR Contact: 11/02/2009
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 04/13/2009
Date Data Arrived at EDR: 04/14/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/10/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/22/2009
Date Data Arrived at EDR: 05/27/2009
Date Made Active in Reports: 07/01/2009
Number of Days to Update: 35

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/27/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facilities Database

Source: Department of Education & Early Development

Telephone: 907-465-2800

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Data

Source: Department of Fish & Game

Telephone: 907-465-4100

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

GALENA FOL
GALENA
GALENA, AK 99765

TARGET PROPERTY COORDINATES

Latitude (North):	64.74180 - 64° 44' 30.5"
Longitude (West):	156.9449 - 156° 56' 41.6"
Universal Tranverse Mercator:	Zone 4
UTM X (Meters):	597836.8
UTM Y (Meters):	7181072.5
Elevation:	128 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property:	N/A
Source:	USGS 7.5 min quad index

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

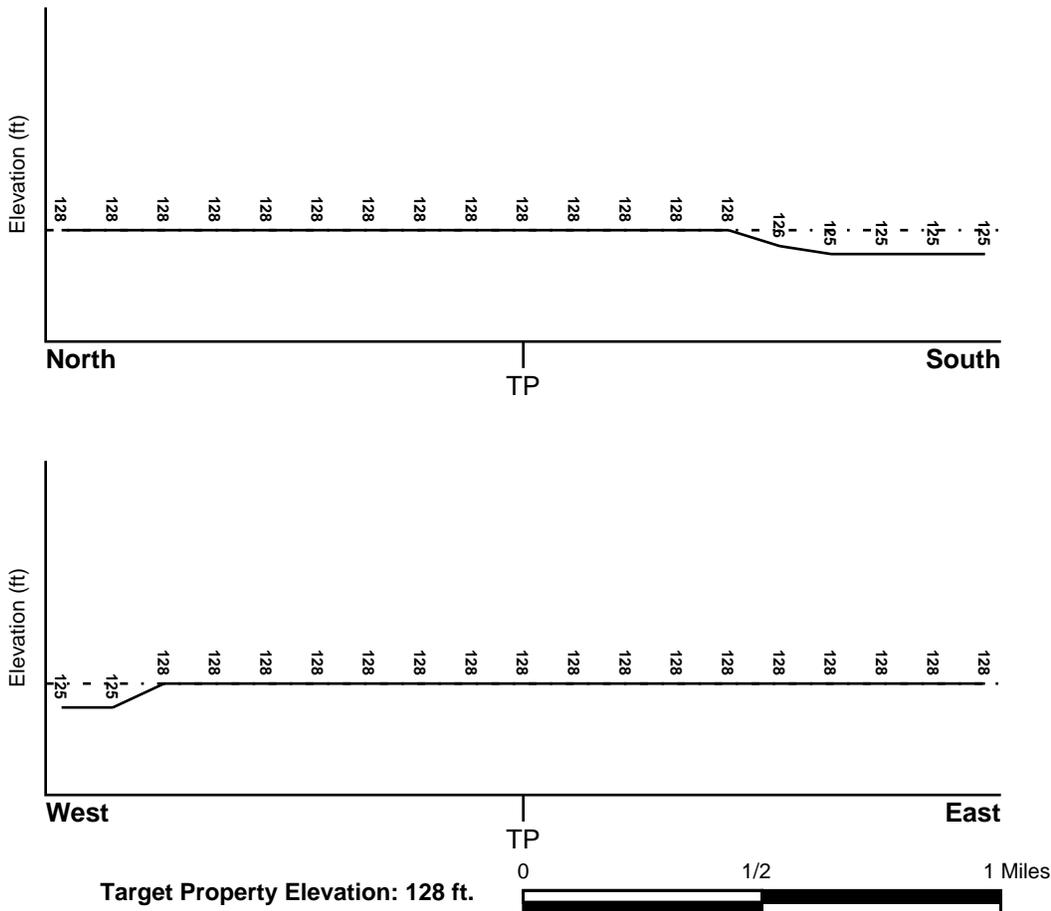
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: Undeterminable

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u>	<u>FEMA Flood Electronic Data</u>
YUKON-KOYUKUK, AK	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
Not Reported	N

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: -
System: -
Series: -
Code: N/A (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: -

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: HISTIC PERGELIC CRYAQUEPTS

Soil Surface Texture: peat

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly. Soils are wet to the surface most of the time. Depth to water table is less than 1 foot, or is ponded.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	peat	A-8	Highly organic soils, Peat.	Max: 6.00 Min: 2.00	Max: 4.40 Min: 3.60
2	7 inches	11 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
3	11 inches	24 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
4	24 inches	60 inches	ice or frozen soil	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam

Surficial Soil Types: silt loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: stratified
very gravelly - sand

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

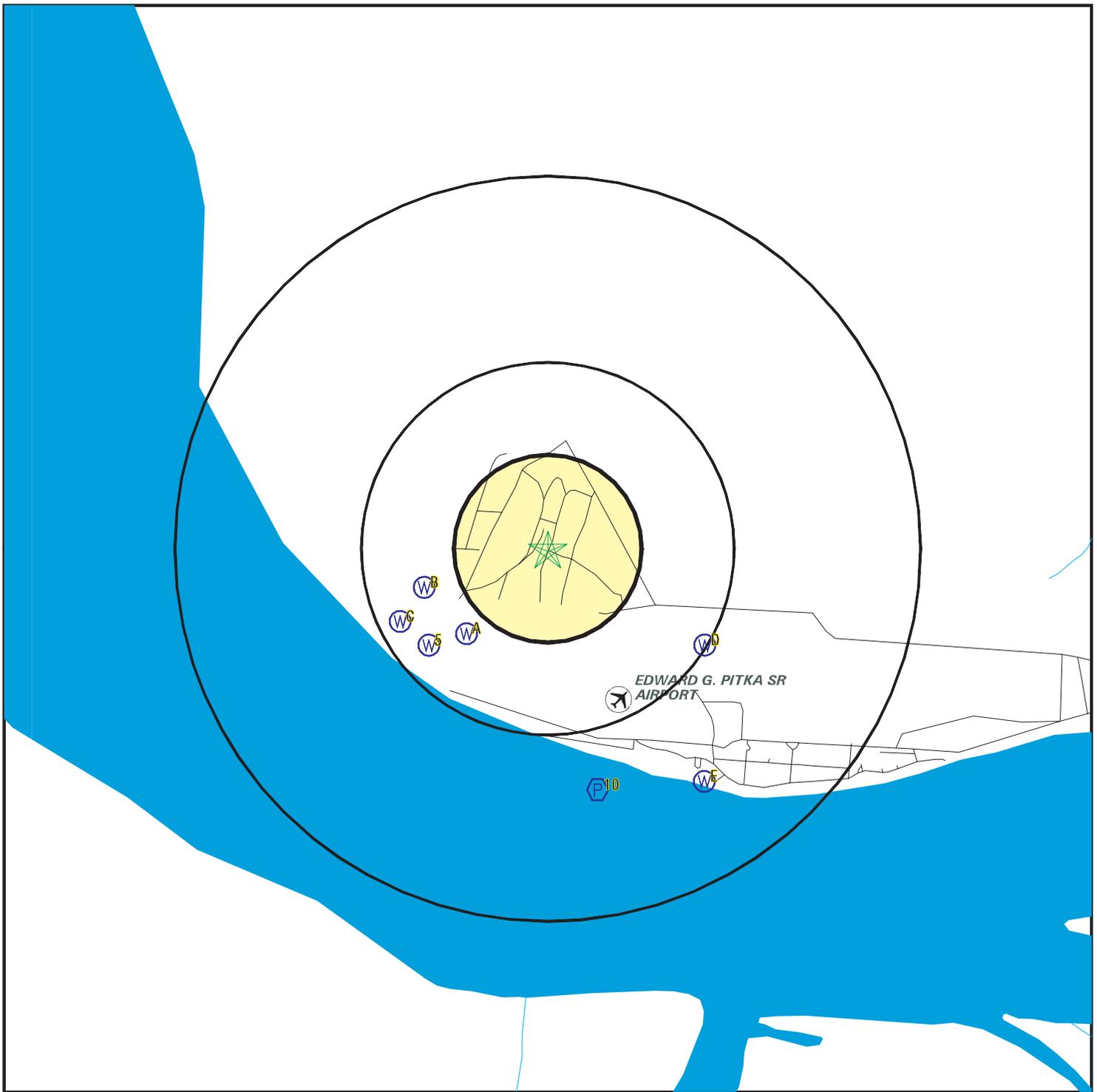
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS2045083	1/4 - 1/2 Mile SW
A2	USGS2045082	1/4 - 1/2 Mile SW
B3	USGS2045088	1/4 - 1/2 Mile WSW
B4	USGS2045089	1/4 - 1/2 Mile WSW
5	USGS2045081	1/4 - 1/2 Mile SW
C6	USGS2045086	1/4 - 1/2 Mile WSW
C7	USGS2045087	1/4 - 1/2 Mile WSW
D8	USGS2045085	1/4 - 1/2 Mile ESE
D9	USGS2045084	1/4 - 1/2 Mile ESE
E11	USGS2045080	1/2 - 1 Mile SE
E12	USGS2045078	1/2 - 1 Mile SSE
E13	USGS2045079	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
10	AK0236056	1/2 - 1 Mile SSE

Note: PWS System location is not always the same as well location.

PHYSICAL SETTING SOURCE MAP - 2561819.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location



No contour lines were detected within this map area.

SITE NAME: Galena FOL
 ADDRESS: Galena
 Galena AK 99765
 LAT/LONG: 64.7418 / 156.9449

CLIENT: Earth Tech Inc.
 CONTACT: Dave Jury
 INQUIRY #: 2561819.2s
 DATE: August 11, 2009 3:54 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A1
SW
1/4 - 1/2 Mile
Higher

FED USGS USGS2045083

Agency cd:	USGS	Site no:	644420156565702
Site name:	KD00901006BDCB2 003		
Latitude:	644420		
Longitude:	1565657	Dec lat:	64.73826329
Dec lon:	-156.9516486	Coor meth:	M
Coor accr:	T	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	02
State:	02	County:	290
Country:	US	Land net:	SWSENEWS06 T009S R010E K
Location map:	NULATO C-2	Map scale:	63360
Altitude:	140.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	25		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	19040705		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19440101
Date inventoried:	Not Reported	Mean greenwich time offset:	AKST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	205	Hole depth:	210
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1963-07-25	Ground water data end date:	1963-07-25
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below	Feet to
Date	Surface	Sealevel

1963-07-25	8.00	

A2
SW
1/4 - 1/2 Mile
Higher

FED USGS USGS2045082

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	644420156565701
Site name:	KD00901006BDCB1 003		
Latitude:	644420		
Longitude:	1565657	Dec lat:	64.73826329
Dec lon:	-156.9516486	Coor meth:	M
Coor accr:	T	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	02
State:	02	County:	290
Country:	US	Land net:	SWSENWS06 T009S R010E K
Location map:	NULATO C-2	Map scale:	63360
Altitude:	140.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	25		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	19040705		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19540626
Date inventoried:	Not Reported	Mean greenwich time offset:	AKST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	64.0	Hole depth:	64.0
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1954-06-26	Ground water data end date:	1954-06-26
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1954-06-26	14.50	

B3
WSW
1/4 - 1/2 Mile
Higher

FED USGS USGS2045088

Agency cd:	USGS	Site no:	644426156571201
Site name:	KD00901006BCAC1 005		
Latitude:	644426		
Longitude:	1565712	Dec lat:	64.73992994
Dec lon:	-156.9558154	Coor meth:	M
Coor accr:	T	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	02
State:	02	County:	290
Country:	US	Land net:	NESWNWS06 T009S R010E K
Location map:	NULATO C-2	Map scale:	63360
Altitude:	140.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	25		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	19040705		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19510101
Date inventoried:	Not Reported	Mean greenwich time offset:	AKST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1963-04-09	29.00	

**5
SW
1/4 - 1/2 Mile
Higher**

FED USGS USGS2045081

Agency cd:	USGS	Site no:	644418156570901
Site name:	KD00901006BCDD1 004		
Latitude:	644418		
Longitude:	1565709	Dec lat:	64.73770766
Dec lon:	-156.9549819	Coor meth:	M
Coor accr:	T	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	02
State:	02	County:	290
Country:	US	Land net:	SESWNWS06 T009S R010E K
Location map:	NULATO C-2	Map scale:	63360
Altitude:	140.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	25		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	19040705		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19540626
Date inventoried:	Not Reported	Mean greenwich time offset:	AKST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	43.0	Hole depth:	43.0
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1954-06-26	Ground water data end date:	1954-06-26
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1954-06-26	14.50	

**C6
WSW
1/4 - 1/2 Mile
Higher**

FED USGS USGS2045086

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	644421156571901
Site name:	KD00901006BCCA1 002		
Latitude:	644421		
Longitude:	1565719	Dec lat:	64.73854098
Dec lon:	-156.95775975	Coor meth:	M
Coor accr:	T	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	02
State:	02	County:	290
Country:	US	Land net:	SWSWNWS06 T009S R010E K
Location map:	NULATO C-2	Map scale:	63360
Altitude:	140.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	25		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	19040705		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19551022
Date inventoried:	Not Reported	Mean greenwich time offset:	AKST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	202	Hole depth:	203
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1959-10-01
Water quality data end date:	1965-01-08	Water quality data count:	8
Ground water data begin date:	1955-10-22	Ground water data end date:	1955-10-22
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1955-10-22	38.00	

**C7
WSW
1/4 - 1/2 Mile
Higher**

FED USGS USGS2045087

Agency cd:	USGS	Site no:	644421156571902
Site name:	KD00901006BCCA2 002		
Latitude:	644421		
Longitude:	1565719	Dec lat:	64.73854098
Dec lon:	-156.95775975	Coor meth:	M
Coor accr:	T	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	02
State:	02	County:	290
Country:	US	Land net:	SWSWNES06 T009S R010E K
Location map:	NULATO C-2	Map scale:	63360
Altitude:	140.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	25		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	19040705		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19630327
Date inventoried:	Not Reported	Mean greenwich time offset:	AKST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1963-03-18	27.60	

**D9
ESE
1/4 - 1/2 Mile
Higher**

FED USGS USGS2045084

Agency cd:	USGS	Site no:	644421156553901
Site name:	KD00901006ADDA1 006		
Latitude:	644421		
Longitude:	1565539	Dec lat:	64.73854143
Dec lon:	-156.92998189	Coor meth:	M
Coor accr:	T	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	02
State:	02	County:	290
Country:	US	Land net:	SESENE06 T009S R010E K
Location map:	NULATO C-2	Map scale:	63360
Altitude:	140.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	25		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	19040705		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19630304
Date inventoried:	Not Reported	Mean greenwich time offset:	AKST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	39.5	Hole depth:	50.0
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1963-03-04	Ground water data end date:	1963-03-04
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1963-03-04	30.50	

**10
SSE
1/2 - 1 Mile
Lower**

FRDS PWS AK0236056

PWS ID:	AK0236056		
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	HAROLDS AIR SERVICE/GALENA GALENA, AK 99741		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Addressee / Facility: Not Reported

Facility Latitude: 64 44 00
 City Served: Not Reported
 Treatment Class: Untreated

Facility Longitude: 156 56 00
 Population: 00000020

Violations information not reported.

E11
SE
1/2 - 1 Mile
Higher

FED USGS USGS2045080

Agency cd:	USGS	Site no:	644404156553501
Site name:	KD00901006DADD1 001		
Latitude:	644404		
Longitude:	1565535	Dec lat:	64.73381907
Dec lon:	-156.92887043	Coor meth:	M
Coor accr:	T	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	02
State:	02	County:	290
Country:	US	Land net:	SENESES06 T009S R010E K
Location map:	NULATO C-2	Map scale:	63360
Altitude:	140.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	25		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	19040705		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	AKST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	38.0	Hole depth:	38.0
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1963-03-13
Water quality data end date:	1963-03-13	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

E12
SSE
1/2 - 1 Mile
Lower

FED USGS USGS2045078

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	644401156553601
Site name:	KD00901006DDAA1 007		
Latitude:	644401		
Longitude:	1565536	Dec lat:	64.73298571
Dec lon:	-156.92914815	Coor meth:	M
Coor accr:	T	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	02
State:	02	County:	290
Country:	US	Land net:	NESESES06 T009S R010E K
Location map:	NULATO C-2	Map scale:	63360
Altitude:	130.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	25		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	19040705		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19811005
Date inventoried:	Not Reported	Mean greenwich time offset:	AKST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	53.0	Hole depth:	53.0
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1981-10-05	Ground water data end date:	1981-10-05
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1981-10-05	27.00	

**E13
SSE
1/2 - 1 Mile
Lower**

FED USGS USGS2045079

Agency cd:	USGS	Site no:	644401156553602
Site name:	KD00901006DDAA2 007		
Latitude:	644401		
Longitude:	1565536	Dec lat:	64.73298571
Dec lon:	-156.92914815	Coor meth:	M
Coor accr:	T	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	02
State:	02	County:	290
Country:	US	Land net:	NESESES06 T009S R010E K
Location map:	NULATO C-2	Map scale:	63360
Altitude:	125.		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	25		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	19040705		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19811021
Date inventoried:	Not Reported	Mean greenwich time offset:	AKST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag: Y
 Type of ground water site: Single well, other than collector or Ranney type
 Aquifer Type: Not Reported
 Aquifer: QUATERNARY
 Well depth: 87. Hole depth: 87.
 Source of depth data: driller
 Project number: Not Reported
 Real time data flag: 0
 Daily flow data end date: 0000-00-00
 Daily flow data begin date: 0000-00-00
 Daily flow data count: 0
 Peak flow data begin date: 0000-00-00
 Peak flow data end date: 0000-00-00
 Peak flow data count: 0
 Water quality data begin date: 0000-00-00
 Water quality data end date: 0000-00-00
 Water quality data count: 0
 Ground water data begin date: 1981-10-21
 Ground water data end date: 1981-10-21
 Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
----- 1981-10-21	30	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for YUKON-KOYUKUK County: 3

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Data

Source: Department of Fish & Game

Telephone: 907-465-4100

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

RADON

State Database: AK Radon

Source: University of Alaska Fairbanks

Telephone: 907-474-7201

Radon Information

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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Galena FOL

Galena

Galena, AK 99741

Inquiry Number: 2561819.5

August 12, 2009

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography August 12, 2009

Target Property:

Galena

Galena, AK 99741

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1972	Aerial Photograph. Scale: 1"=1000'	Panel #: 2436076-G3/Flight Date: August 02, 1972	EDR
1980	Aerial Photograph. Scale: 1"=1000'	Panel #: 2436076-G3/Flight Date: July 18, 1980	EDR



INQUIRY #: 2561819.5

YEAR: 1972

 = 1000'





INQUIRY #: 2561819.5

YEAR: 1980

 = 1000'



APPENDIX D

HAZARDOUS MATERIALS INVENTORY

**Appendix D
Hazardous Materials Storage**

Facility	Product	Quantity Stored (lbs/year)	Documented Years of Storage
1428 (Alert Hangar)	Paint	120	1992

Source: U.S. Air Force, 1996d.

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APPENDIX E

VISUAL SITE INSPECTION FORMS

BUILDING 1428

COMBAT ALERT CELL (CAC)

VISUAL SITE INSPECTION (VSI) REPORT

Former Galena AFS

GENERAL INFORMATION

Facility Number: 1428

Current Use: Alert Hangar – Vacant

Date Inspected: August 25, 2009
Type of Building: Aviation Support
Type of Construction: Two-story, steel framed
building with steel roof

Area (Sq. Ft.): 22,242
Year of Construction: 1957

Description of Facility: This former alert hangar is currently vacant. The hangar was used to house alert fighter aircraft of various types in support of intercept of aggressor nation aircraft.



PHYSICAL SETTING

Current Uses of the Facility

<i>Are any current uses likely to involve treatment, storage, disposal, or generation of hazardous substances or petroleum products?</i>	No
<i>Report current uses based on observation, interviews, and records review.</i> This building is vacant. Cost to heat the building is too expensive to have any use in the structure.	Vacant

Past Uses of the Facility

<i>Were any past uses likely to have involved treatment, storage, disposal, or generation of hazardous substances or petroleum?</i>	Yes
<p>Small quantities of hazardous substances (e.g., adhesives, spray paint, epoxy, oil, grease, fuel, antifreeze, and compressed gases) were stored on site to support minor aviation maintenance activities. An overpak drum with a small amount of liquid (about 1 gallon) was observed during the VSI.</p>	
<i>Report all past uses based on observation, interviews, and records review.</i>	Aircraft storage

PHYSICAL CONDITIONS AND FINDINGS

Enter Rating: X=Excellent G=Good F=Fair P=Poor NA=Not Applicable

ITEM	RATING	COMMENTS
Condition of Paint		
Exterior	F	
Interior	P	Peeling paint within hangar bays
Condition of Building		
Exterior	F	
Interior	P	Living areas of the structure have signs of vandalism (smashed walls and windows).
Air Emission Sources	NA	
PCB Containing Equipment	NA	
Historical Property	NA	
Observed Wetlands	NA	
Drinking Water Wells	NA	Well just outside the mechanical room has been abandoned (formal abandonment process still to be completed). Possible well within the building has also been abandoned; unsure if proper abandonment procedures were completed.
Remedial System	NA	
Monitoring Wells	X	Three monitoring wells are situated near the structure (09-MW-02, 10-MW-04, and 10-MW-05).

HAZARDOUS MATERIAL AND WASTE, PETROLEUM, OIL, AND LUBRICANT UNITS

Describe the condition of and materials handled by the following units.

INDUSTRIAL

Waste Stream: Place either "HM" (Hazardous Material), "HW" (Hazardous Waste), "POL" (Petroleum Oil & Lubricant Product), "POLW" (POL Waste), "OTH" (Other), "NA" (Not Applicable)

UNITS	WASTE STREAM	COMMENTS
Floor Drains	OTH	Sinks, showers, and toilets flow to sanitary sewer.
Waste Water System/Collection	NA	
Oil/Water Separators	NA	

UNITS	WASTE STREAM	COMMENTS
(OWS)		
Wash Racks	NA	
Above Ground Storage Tank	POL	Two active DF-8 ASTs (one 275-gallon, one 25 gallon) in mechanical room One abandoned 10,000-gallon diesel UST northeast of the mechanical room. Two abandoned 10,000-gallon diesel USTs near northwest corner of the building.
Underground Storage Tank	POL	UST locations were confirmed using ground penetrating radar in 2009.
Other Tanks	NA	
Sumps	NA	
Silver Recovery Units	NA	
Hydrant System	NA	
Radioactive Units	NA	
Container Storage Area	NA	
Other	NA	

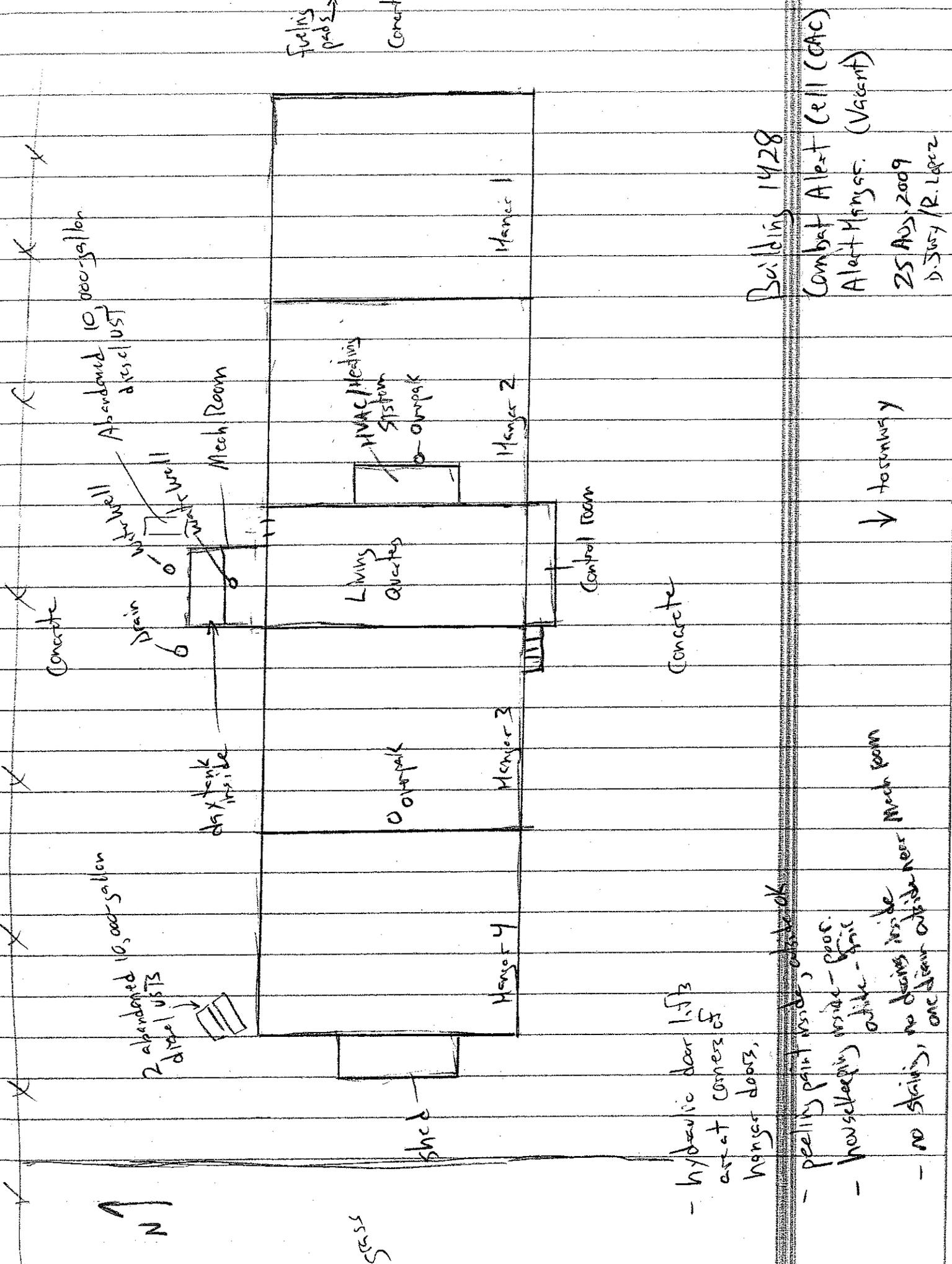
SURFACE WATER		
UNITS	YES/NO	COMMENTS
Storm Water Systems	NO	
Pits, Ponds, Lagoons	NO	
Other	NO	

MUNICIPAL		
UNITS	YES/NO	COMMENTS
Sanitary Sewer (<i>utility ownership</i>)	YES	Owned by the City of Galena. Restroom and living quarters in building.
Septic Tanks	NO	
Grease Traps	NO	
Drains	NO	Only drain is located outside of the structure northwest of the mechanical room.
Other	NO	

SITE CONDITIONS		
	YES/NO	COMMENTS
Odors	NO	
Pools of Liquid	NO	
Stained Soil	NO	
Stains (<i>walls, floor, etc</i>)	NO	
Stressed Vegetation	NO	
Other Areas of Concern	NO	
Other	NO	

INSPECTED BY: David Jury/Robert Lopez\Patrick Haas
Dave Humphrey – Galena Public Utilities

DATE: August 25, 2009



Building 1428
 Combat Alert Cell (CAC)
 Alert Mngmt. (Vacant)
 25 Aug 2009
 D. Stutz / R. Lopez

Concrete

- hydraulic door lifts at corners of manger doors.

- peeling paint inside, outside
- non-sloping inside - poor white - fine
- no stairs, no drains inside one drain outside near Mech room

Stairs

to runway

N ↑

Fueling pads →
Concrete

BUILDING 1568

FORMER RADAR APPROACH CONTROL (RAPCON) FACILITY

VISUAL SITE INSPECTION (VSI) REPORT

Former Galena AFS

GENERAL INFORMATION

Facility Number: 1568

Current Use: Storage and Administrative –
Vacant

Date Inspected: August 25, 2009
Type of Building: Administrative
Type of Construction: Single-story, steel
framed building with
steel roof

Area (Sq. Ft.): 1,350
Year of Construction: 1982

Description of Facility: This former RAPCON building has been used for storage and administrative space supporting continuing remedial efforts at former Galena AFS. The building is vacant during the winter months.



PHYSICAL SETTING

Current Uses of the Facility

<i>Are any current uses likely to involve treatment, storage, disposal, or generation of hazardous substances or petroleum products?</i>	No
<i>Report current uses based on observation, interviews, and records review.</i> This building is used for storage and administrative space supporting remedial efforts at former Galena AFS.	Storage/Admin

Past Uses of the Facility

<i>Were any past uses likely to have involved treatment, storage, disposal, or generation of hazardous substances or petroleum?</i>	No
<p>This building is used for storage and administrative space supporting remedial efforts at former Galena AFS. Small quantities of hazardous substances (e.g., adhesives, spray paint, epoxy, oil, grease, antifreeze, and compressed gases) are stored on site to support remedial investigations.</p>	
<i>Report all past uses based on observation, interviews, and records review.</i>	Storage, Admin

PHYSICAL CONDITIONS AND FINDINGS

Enter Rating: X=Excellent G=Good F=Fair P=Poor NA=Not Applicable

ITEM	RATING	COMMENTS
Condition of Paint		
Exterior	F	
Interior	F	
Condition of Building		
Exterior	F	
Interior	P	Interior has visible mold throughout with interior wall deteriorating due to frost collection on the walls during winter months.
Air Emission Sources	NA	
PCB Containing Equipment	NA	
Historical Property	NA	
Observed Wetlands	NA	
Drinking Water Wells	NA	
Remedial System	NA	
Monitoring Wells	G	Two monitoring wells are situated near Building 1568 (05-MW-12 and 05-MW-13)

HAZARDOUS MATERIAL AND WASTE, PETROLEUM, OIL, AND LUBRICANT UNITS

Describe the condition of and materials handled by the following units.

INDUSTRIAL

Waste Stream: Place either "HM" (Hazardous Material), "HW" (Hazardous Waste), "POL" (Petroleum Oil & Lubricant Product), "POLW" (POL Waste), "OTH" (Other), "NA" (Not Applicable)

UNITS	WASTE STREAM	COMMENTS
Floor Drains	OTH	Drain in utility closet and restroom flow to sanitary sewer.
Waste Water System/Collection	NA	
Oil/Water Separators (OWS)	NA	

UNITS	WASTE STREAM	COMMENTS
Wash Racks	NA	
Above Ground Storage Tank	NA	
Underground Storage Tank	NA	
	POL	Backup generator building (Facility 1569) southwest of Building 1568 has a 275-gallon DF-8 AST. Generator not associated with Building 1568.
Other Tanks		
Sumps	NA	
Silver Recovery Units	NA	
Hydrant System	NA	
Radioactive Units	NA	
Container Storage Area	OTH	Empty drum storage west of building. Empty drums slated for crushing and drums filled with drill cutting from remedial efforts are stored north of the building.
Other	NA	

SURFACE WATER

UNITS	YES/NO	COMMENTS
Storm Water Systems	NO	
Pits, Ponds, Lagoons	NO	
Other	NO	

MUNICIPAL

UNITS	YES/NO	COMMENTS
Sanitary Sewer (<i>utility ownership</i>)	YES	Owned by the City of Galena. Restroom and utility closet in building.
Septic Tanks	NO	
Grease Traps	NO	
Drains	NO	
Other	NO	

SITE CONDITIONS

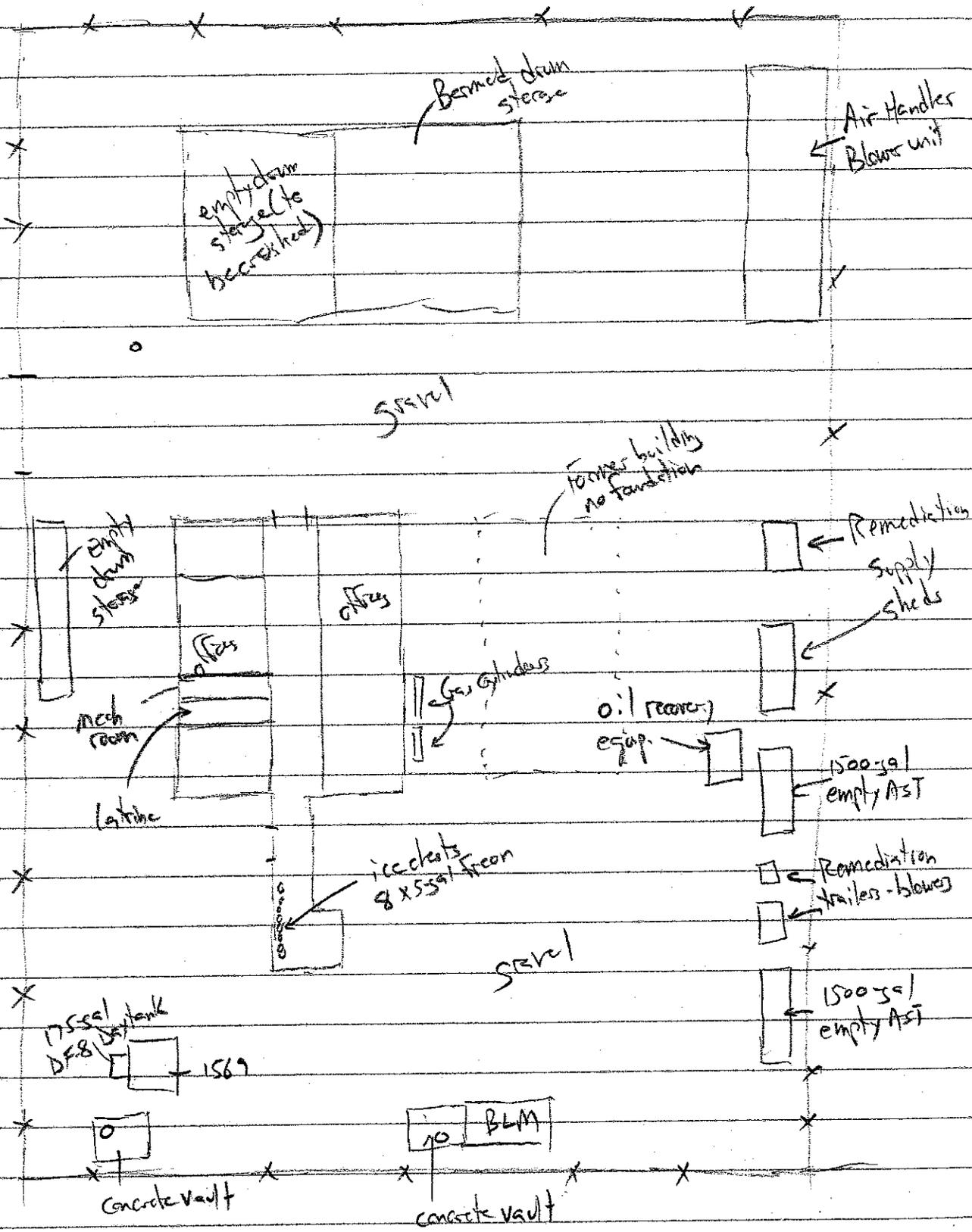
	YES/NO	COMMENTS
Odors	NO	
Pools of Liquid	NO	
Stained Soil	NO	
Stains (<i>walls, floor, etc</i>)	NO	
Stressed Vegetation	NO	
Other Areas of Concern	NO	
Other	NO	

INSPECTED BY: David Jury/Robert Lopez/Patrick Haas

DATE: August 25, 2009

N ↑

to Refueler Maintenance Shop ↑



1568 Former RAPCON
(Contractor offices/storage)

25 Aug 2009 D. Silva / R. Lopez

APPENDIX F

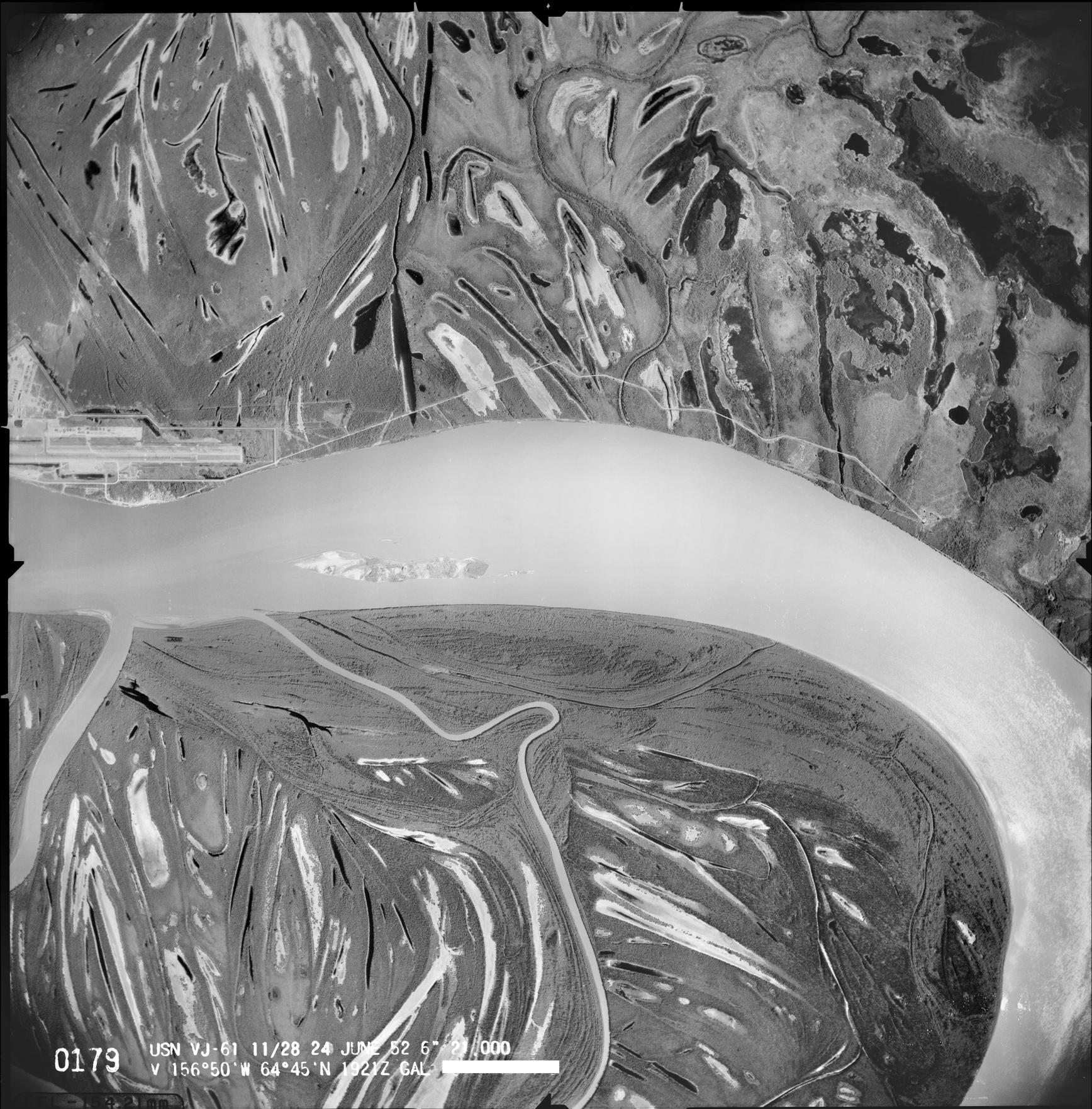
HISTORIC AERIAL PHOTOGRAPHS AND HISTORIC MAPS

HISTORIC AERIAL PHOTOGRAPHS

1952

GALENA 9JUN52 SECRET





0179

USN VJ-61 11/28 24 JUNE 52 6" 21,000
V 156°50'W 64°45'N 1921Z GAL

1962



1963

AMT 2100

2522 GALENA

7-4-63

1-20



AMT 2100 252.

GALENA

9-4-63

1-22



AMT 2100

252°

GALENA

9-4-63

2-20





1969



GALENA MAIN CAMP I: 4500

MIN CO

1971

1978

5-30-78

BLM

4.8

GALENA

3

4

Proposed
BLM 180A

BLM 180A

BLM 180A

15184

15184

62



1985

5-26-85 1"=1000'

GALENA

1 N 9

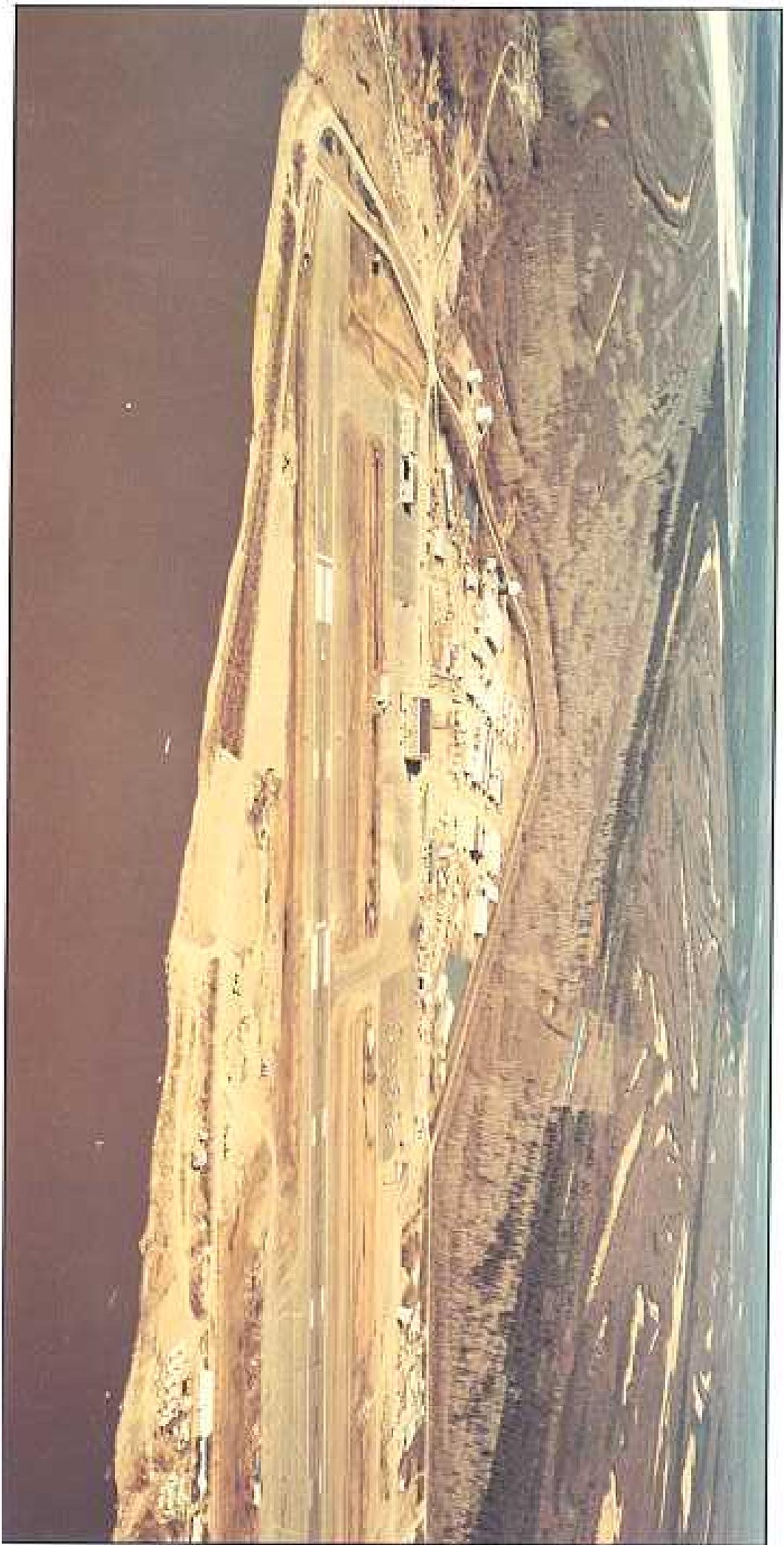
3



Approx. Scale 1 MILE

0 1000' 2000' 3000' 4000' 5000' 6000' 7000' 8000'

1992



UNDATED



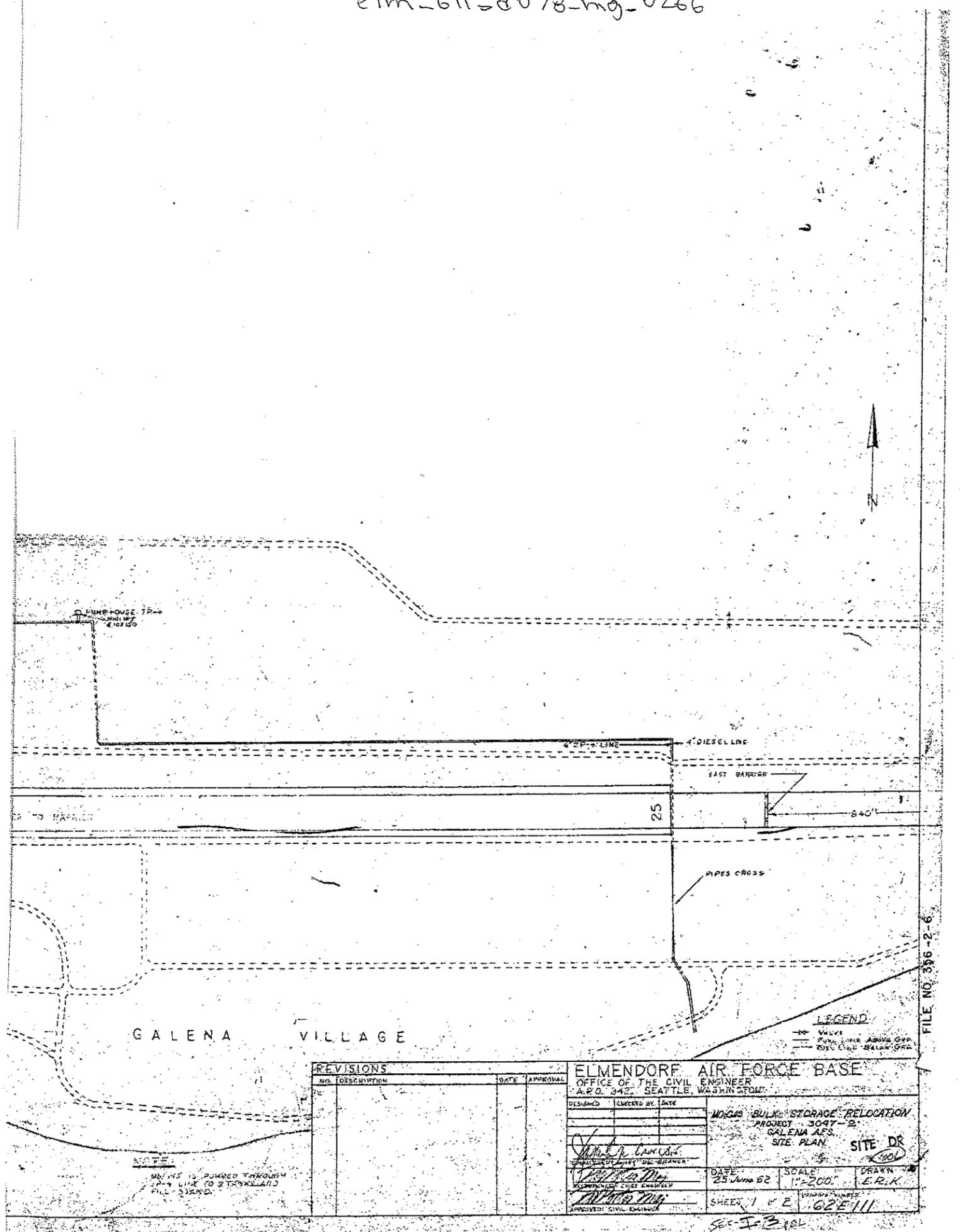
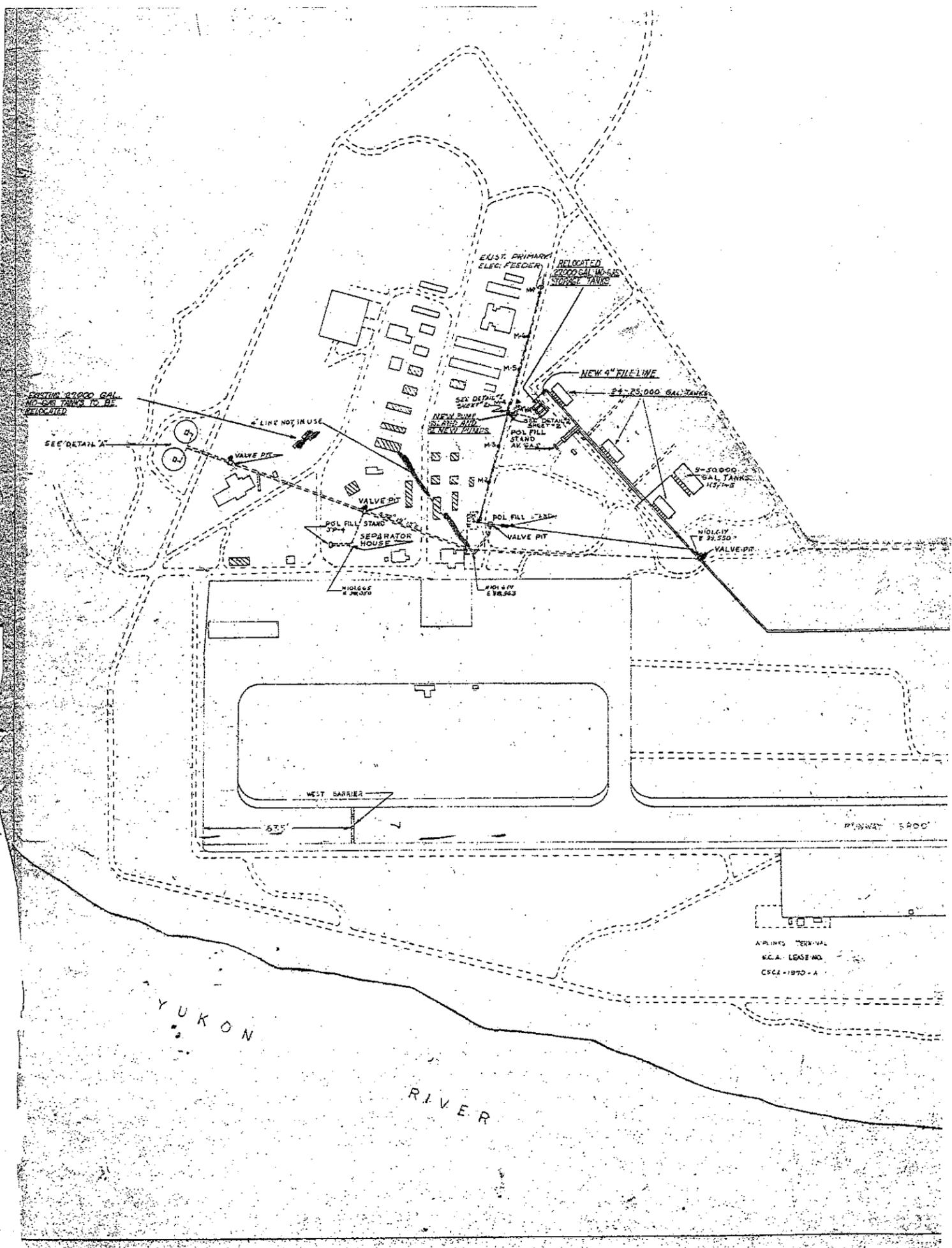


HISTORIC MAPS

1952

1961

1962



FILE NO. 356-2-6

REVISIONS		DATE	APPROVAL
NO.	DESCRIPTION		

ELMENDORF AIR FORCE BASE
 OFFICE OF THE CIVIL ENGINEER
 A.P.O. 342 SEATTLE, WASHINGTON

DESIGNED: [] CHECKED BY: [] DATE: []

PROJECT: **NO. 200 BULK STORAGE RELOCATION**
 PROJECT: 3047-B
 GALENA AFB.
 SITE PLAN. SITE DR

DATE: 25 June 62 SCALE: 1"=200' DRAWN BY: E.R.K.

SHEET: 1 OF 2 DRAWING NUMBER: 62E111

APPROVED: [Signature] APPROVED: CIVIL ENGINEER

NOTE
 NO. 115 IS PUMPED THROUGH
 12" LINE TO STANKLAND
 FILL STAND.

Sec 5 B

1964

ACQUISITION TRACT REGISTER			
TRACT NO.	LAND OWNER	ACREAGE	REMARKS
200	STATE OF ALASKA (DIV. OF AVN.)	3.10	
201P	State of Alaska (Div. of Avn.)		No Area R/W Permit ADA 01808 dtd 1 Sep 71 for ind. term
202P	State of Alaska (Div. of Avn.)		No Area Road R/W FUP ADA 01777 dtd 15 Nov 71 for ind. term
J	U.S. Dept. of Int. (B.L.M.)		0.32 Acquisition pending by 441 D 513 F. 15934
203P	State of Alaska (Div. of Avn.)		No Area FUP (ADA-01954) dtd 7 Jul 72 for 5 yr term.

TRACT NO.	LAND OWNER
C	U.S. Department of the Interior

ACQUISITION TRACT REGISTER	
TRACT NO.	REMARKS
BLM 2.06	Special Land Use Permit (FOI 2825) dated 3/7/57 for storage of stockpiled gravel, expires 3/5/60. Concurrence from Dept. of Commerce (CAA) by letter dated 1/28/57. Formerly a portion of Tract B, retained.



STATE INDEX



VICINITY MAP
Scale in Miles

(TYPE) **FINAL PROJECT MAP**

AGENCY: DEPARTMENT OF THE AIR FORCE
STATE: ALASKA

STATE JUDICIAL DISTRICT: FOURTH
DIVISION: NORTH PACIFIC
DISTRICT: ALASKA

ALASKAN COMMAND

LOCATION OF PROJECT

AT MILES OF GALENA
280 MILES W. OF FAIRBANKS

TRANSPORTATION FACILITIES

RAILROADS
STATE ROADS
FEDERAL ROADS
AIRLINES: NORTHERN CONSOLIDATED, ALASKA

ACQUISITION

TOTAL ACRES ACQUIRED
ACRES FEE
ACRES TRANSFERRED: SHEET NO ONE
ACRES LEASED: SEE SHEET NO ONE
ACRES LESSER INTERESTS

DISPOSAL

TOTAL ACRES DISPOSED OF
ACRES SOLD
ACRES TRANSFERRED: SHEET NO ONE
ACRES LEASES TERMINATED
ACRES LESSER INT'S. TERM.

ACQUISITION AUTHORIZATION

5th IND OFFICE USAFIR DATED 14 OCT 1955

LTR FM HDQ AAC DTD 8 JAN 71 W/ALCOM CONCUR DTD 11 JAN 71

LEGEND

NOTE: USE SYMBOLS FROM FM-21-30 (WAR DEPT. BASIC FIELD MANUAL) PAGES 21 TO 27 INCL. EXCEPT

RESERVATION LINE

RESERVATION LINE (ACTUAL SURVEY)

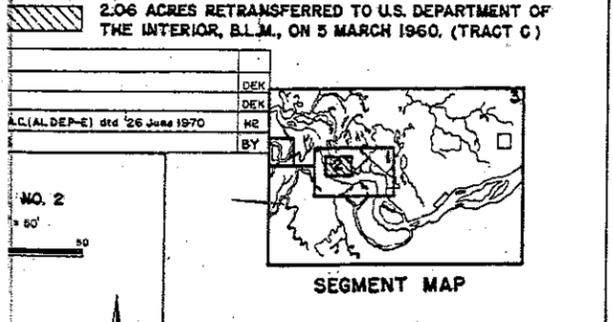
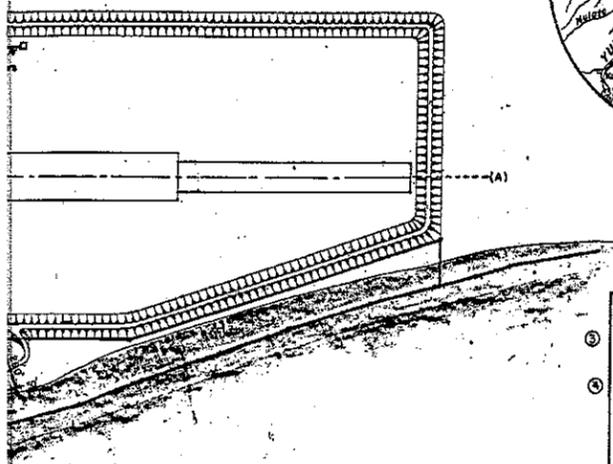
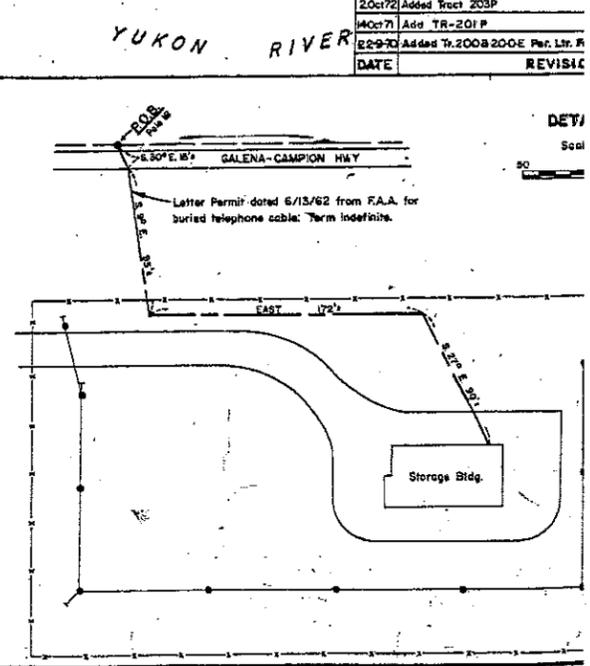
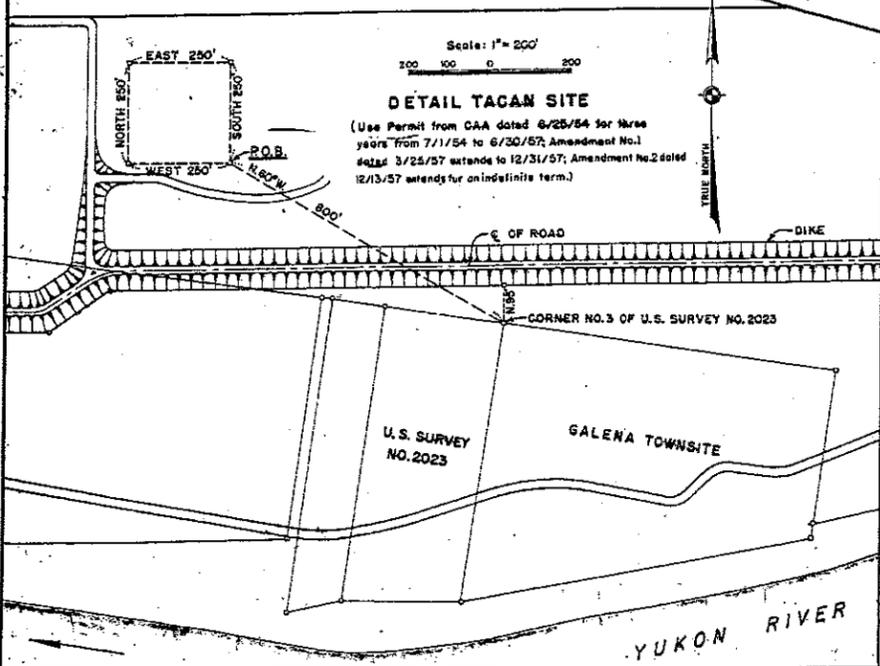
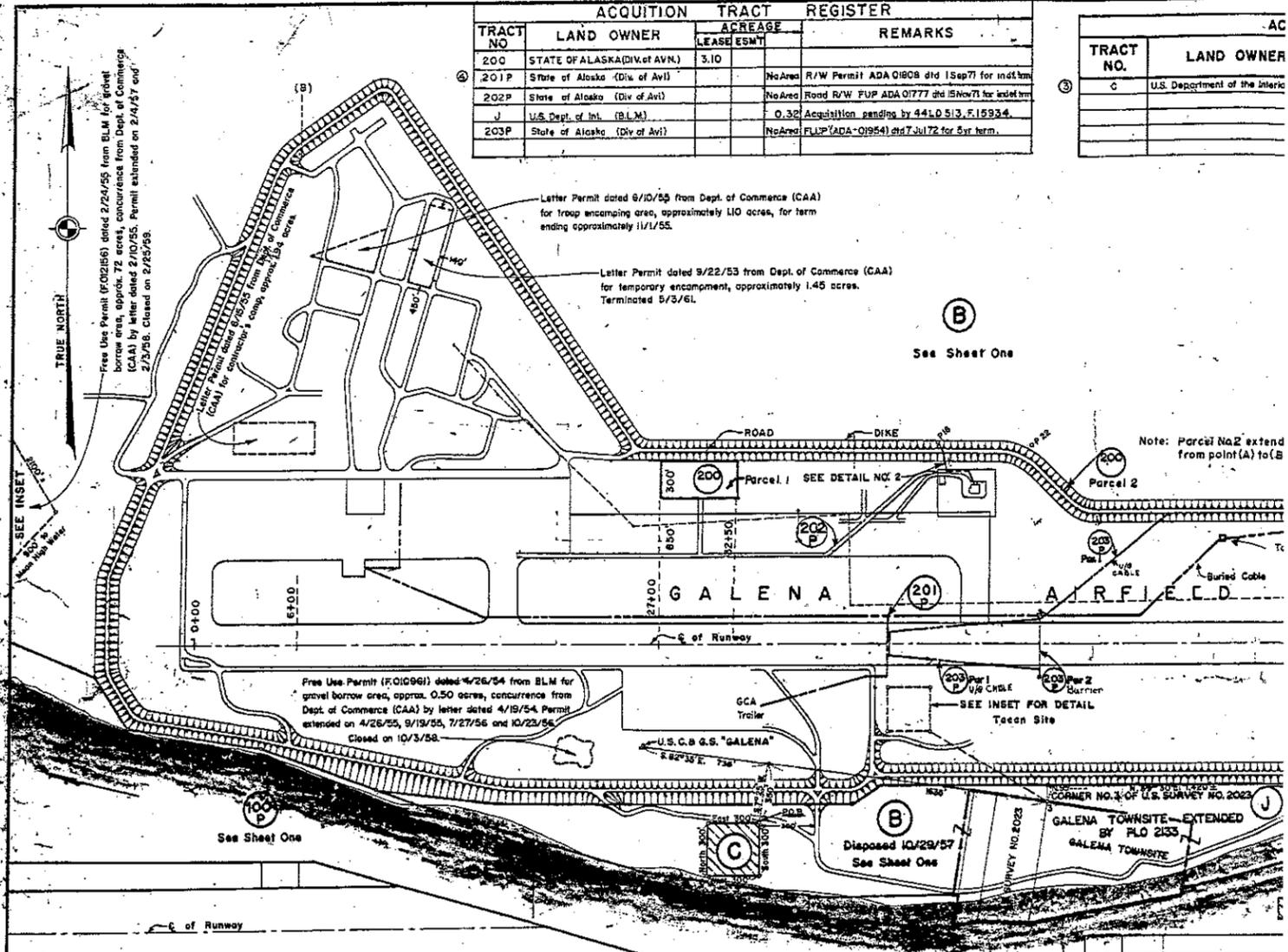
DAM SITE (TAKING LINE)

RESERVOIR SITE (TAKING LINE)

CONTOUR LINES

AVIGATION EASEMENTS

TRACT NUMBER: 89



REVISIONS	DATE	BY
1	4/25/55	L.H.
2	12/15/59	D.F.
3	6/8/64	N.H.

DEPARTMENT OF THE ARMY
OFFICE OF THE ALASKA DISTRICT ENGINEER
NORTH PACIFIC DIVISION

REAL ESTATE
GALENA AIRPORT
MILITARY RESERVATION

DRAWN BY: L.H.
TRACED BY: L.H.
CHECKED BY: V.G.E.

SUBMITTED BY: [Signature]
CHIEF, REALTY CONTROL BR.

RECOMMENDED BY: [Signature]
APPROVED BY: [Signature] DATE: 4/18/55
DISTRICT ENGINEER

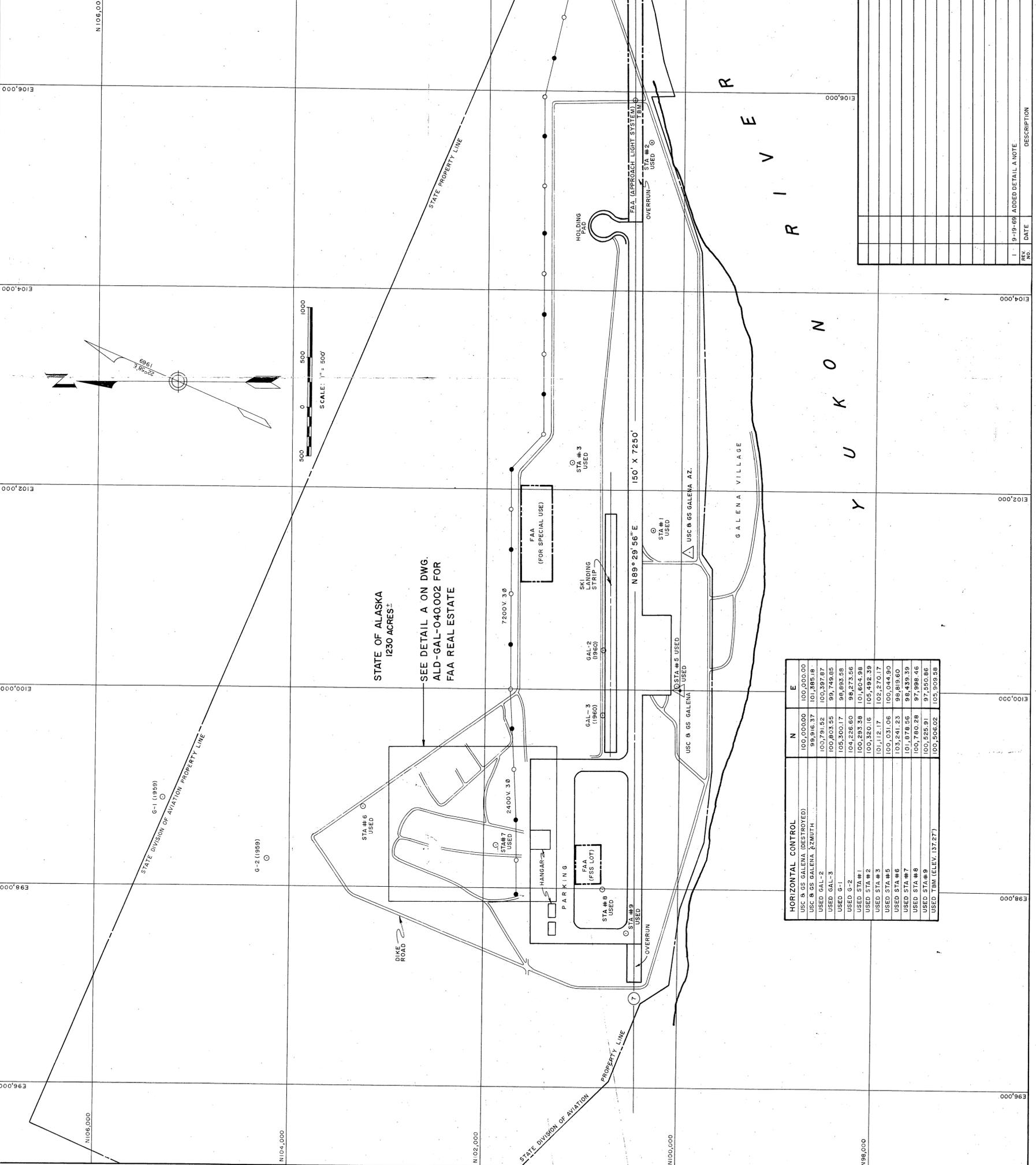
OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C. SCALE IN FEET 1" = 400'

AUDITED

INSTALLATION OR PROJECT NO. 7039 SHEET 2 OF 3 (DWS. NO. A4-21)

1969

TRACT REGISTER			
TRACT NO.	LAND ACQUISITION & DISPOSAL		REMARKS
	ACQUIRED	DISPOSED	
1	FAA SPECIAL USE AREA	7-71	ADA # 10482 A
6	FAA ALS	10-33	ADA # 10482 E
10	FAA FSS LOT	2-92	ADA # 10482 I
	FAA H-MARKER - VORTAC SITE	6-22-0	
	BLM	10-19-66	
	STATE OF ALASKA	1230	



LEGEND
 --- FAA BOUNDARY
 - - - STATE BOUNDARY

REFERENCE DRAWINGS
 GENERAL PLAN ALD-GAL-020-000
 REAL ESTATE DATA ALD-GAL-040-001
 REAL ESTATE DATA ALD-GAL-040-002

HORIZONTAL CONTROL		N	E
USC & GS GALENA (DESTROYED)		100,000.00	100,000.00
USC & GS GALENA 2-MOUTH		99,916.37	101,385.18
USED GAL-2		100,791.52	100,397.87
USED GAL-3		100,803.55	99,749.05
USED G-1		105,300.17	98,993.58
USED G-2		104,226.60	98,273.56
USED STA #1		100,293.39	101,604.98
USED STA #2		100,320.16	105,492.39
USED STA #3		101,112.17	102,270.17
USED STA #4		100,031.06	100,044.90
USED STA #5		103,241.23	98,819.60
USED STA #6		101,878.56	98,439.39
USED STA #7		100,780.28	97,998.46
USED STA #8		100,525.91	97,550.86
USED TBM (ELEV. 137.27')		100,506.02	103,909.58

THIS DRAWING SUPERSEDES DRAWING ALD-GAL-040.000 DATED 5-23-50

FEDERAL AVIATION ADMINISTRATION
 ANCHORAGE, ALASKA

REAL ESTATE DATA
 GALENA, ALASKA

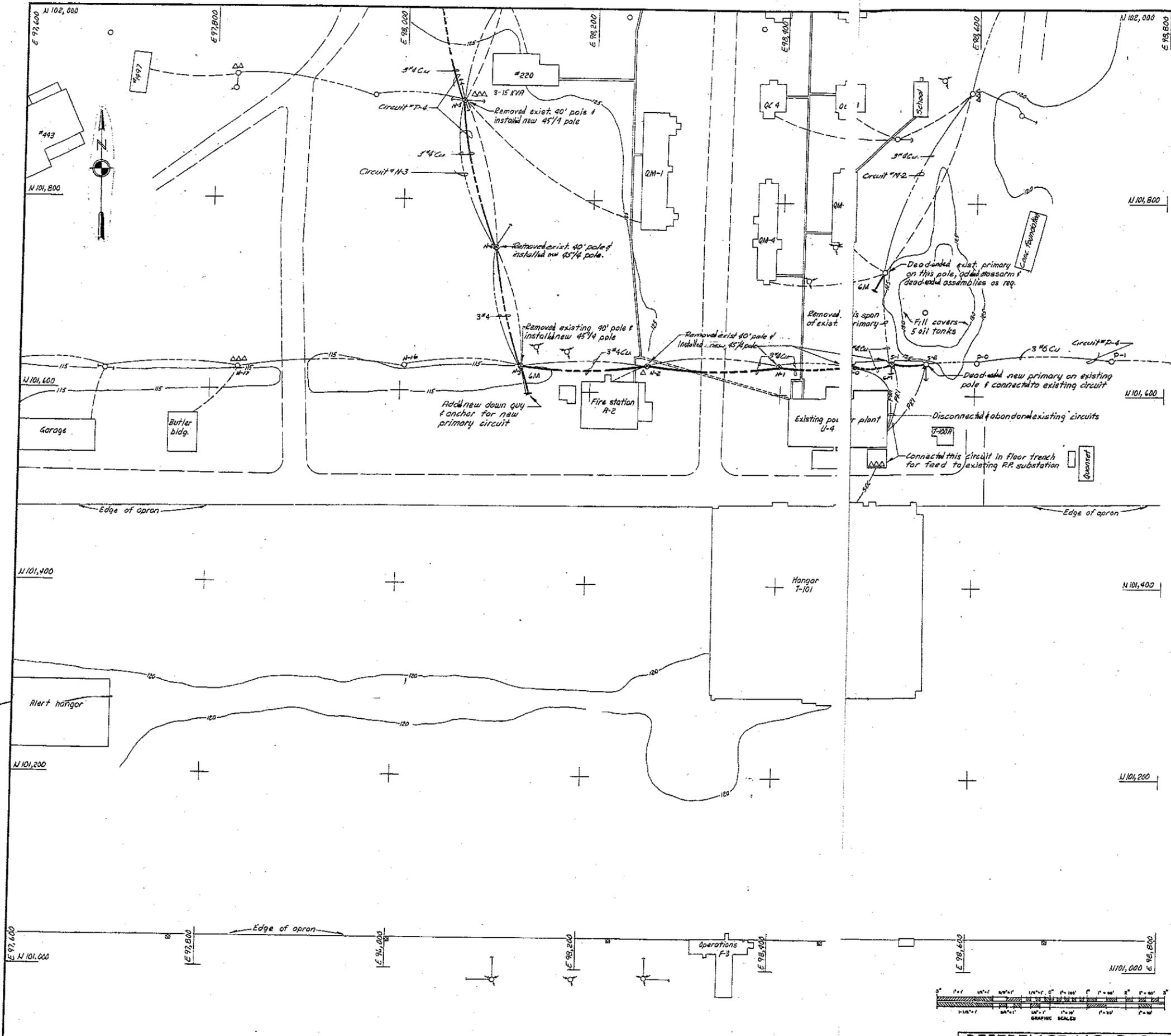
9/10/69

NO.	DATE	DESCRIPTION	CHECKED	APPROVED
1	9-19-68	ADDED DETAIL A NOTE		

REVIEWED BY:	APPROVED BY:	ISSUED BY:	DATE:
AC 17/66 [Signature]	[Signature]	[Signature]	1-10-68

TRAINING NO.	TRAINING DATE	TRAINING TYPE
ALD-GAL-040.000	1-10-68	ALD-GAL-040.000

1968



NOTE

1. For legend see ref. dwg. D-1

POLE LINE SCHEDULE

- GENERAL: Reuse existing hardware on existing primary, service drops and transformers.
- POLE S-1:
 - 1.) Add single crossarms and accessories for new ckt "P-4", primary, top Gain.
 - 2.) Replace double arm, rasag and reconnect ckt "M-2" to dead end assembly, second Gain.
 - 3.) Remount 2#2 control cable using existing insulators.
 - 4.) Terminate and cap existing 5KV riser.
 - 5.) Add new down Guy and reconnect and tighten 2 existing span Guys.
 - POLE S-2:
 - 1.) Add dead end assembly to top Gain and connect new ckt "P-4" to existing ckt "P-4".
 - POLES N-0 & N-1:
 - 1.) Add single arm and accessories for new ckt "P-4", top Gain.
 - 2.) Remount existing arm, insulators and conductors ckt "N-3", second Gain.
 - 3.) Reconnect and tighten existing span Guy (POLE N-0 ONLY).
 - POLE N-2:
 - 1.) Add single arm and accessories for new ckt "P-4", top Gain.
 - 2.) Remount existing arm and insulators and conductors, ckt "N-3", second Gain.
 - 3.) Remount 15KVA transformer and reconnect 3 wire secondary service.
 - POLE N-3:
 - 1.) Add double armed "L" corner for ckt "P-4", top Gain.
 - 2.) Remount double arm dead end assembly and single arm; remount and connect ckt "N-3" at "T" corner, second Gain.
 - 3.) Remount secondary rack and 4#6.
 - 4.) Reconnect existing down Guy.
 - 5.) Add new down Guy.
 - POLE N-4:
 - 1.) Add single arm and accessories and mount ckt "P-4" primary, top Gain.
 - 2.) Remount existing arm, insulators and conductors, ckt "N-3", second Gain.
 - 3.) Remount secondary rack and 4#6.
 - 4.) Reconnect and tighten existing down Guy.
 - POLE N-5:
 - 1.) Add single arm and accessories and mount ckt "P-4" primary, top Gain.
 - 2.) Remount existing double armed "T" corner and reconnect ckt "N-3", second Gain.
 - 3.) Remount 3-15KVA transformers and reconnect three secondary drops.
 - 4.) Reconnect and tighten 5 down Guys.

15

NO.	DATE	BY	DESCRIPTION	FT	APPR.
CONSTRUCTION CONTRACTORS GIBMA CO INC.					
CITY: PALM SPRINGS STATE: CALIFORNIA					
RECOMMENDED:	APPROVED:	DATE:			
U. S. ARMY ENGINEER DISTRICT, ALASKA CORPS OF ENGINEERS ANCHORAGE, ALASKA					
GALENA AIRPORT, ALASKA PRIMARY POWER GENERATION ELECTRICAL DISTRIBUTION PLAN II					
DESIGNED:	APPROVED:	DATE:			
DRAWN:	SCALE:	SPEC. NO.:			
CHECKED:	DRAWING NUMBER:				
SUBMITTED:	SHEET 2 OF 2				

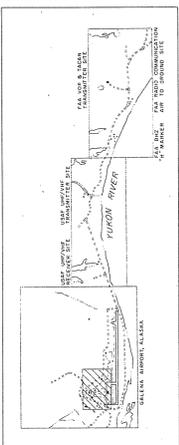
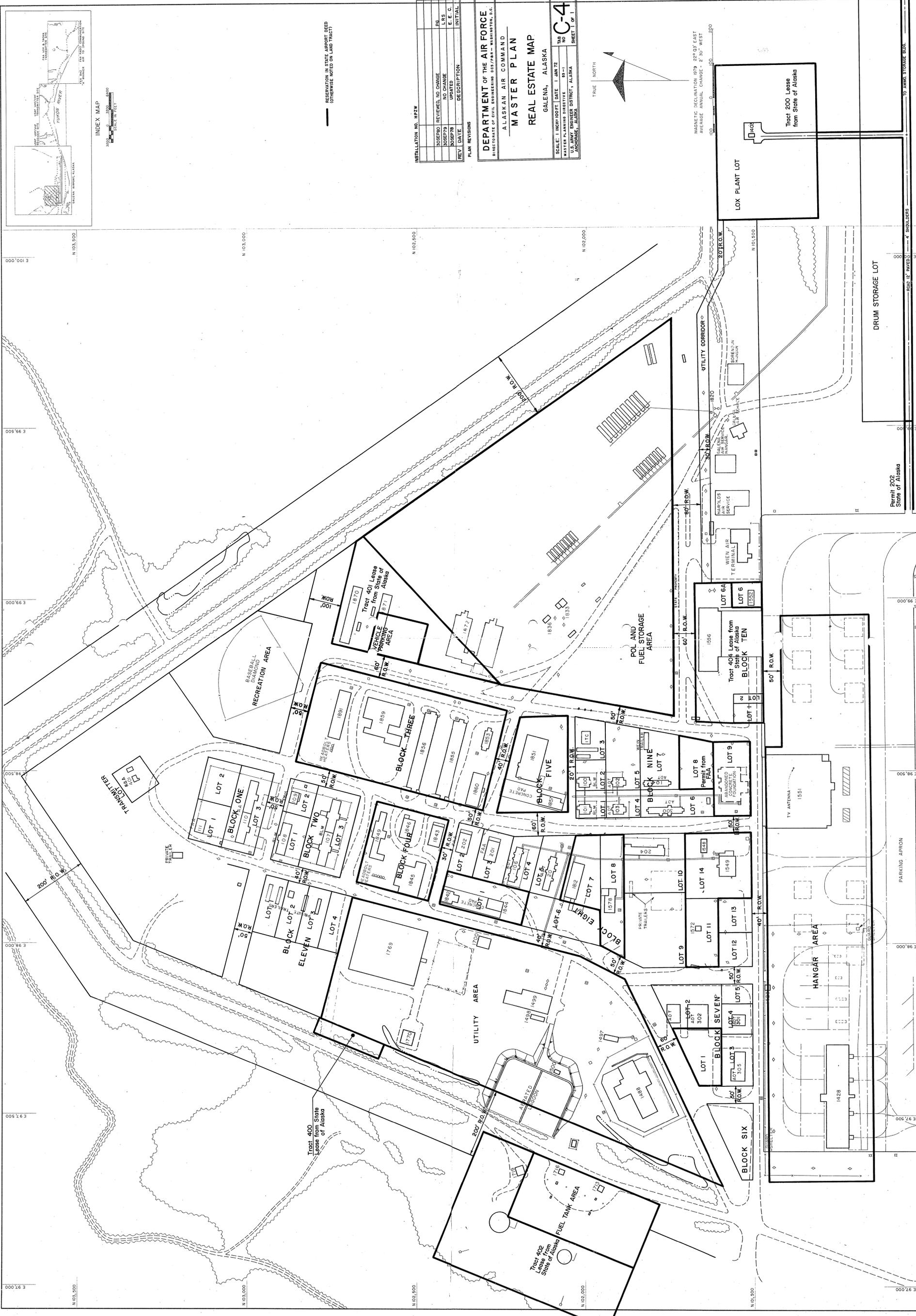
REFERENCE NO. D-2

SCHEDULE B INV. NO. DACA85-68-B-0007

ELEC. DIST. SEC. 1-13

FILE NO. 354-4-18

1972



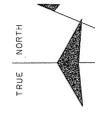
INDEX MAP
 1:50,000
 SCALE
 1:50,000
 SCALE

RESERVATION IN STATE AIRPORT ZONE
 (OTHERWISE NOTED ON LAND TRACT)

INSTALLATION NO. HP2W

REV	DATE	DESCRIPTION	INITIAL
1		ISSUED	RF
2		REVIEWED, NO CHANGE	RF
3		NO CHANGE	RF
4		REVISED	RF
5		REVISED	RF
6		REVISED	RF
7		REVISED	RF
8		REVISED	RF
9		REVISED	RF
10		REVISED	RF
11		REVISED	RF
12		REVISED	RF
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94		REVISED	RF
95		REVISED	RF
96		REVISED	RF
97		REVISED	RF
98		REVISED	RF
99		REVISED	RF
100		REVISED	RF

DEPARTMENT OF THE AIR FORCE
 DIRECTORATE OF CIVIL ENGINEERING DCS/AFM - WASHINGTON, D.C.
 ALASKAN AIR COMMAND
 MASTER PLAN
 REAL ESTATE MAP
 GALENA, ALASKA
 SCALE: 1" = 1000 FT. DATE: 1 JAN 72
 MASTER PLANNING DIRECTIVE: 93-1
 U.S. ARMY ENGINEER DISTRICT, ALASKA
 ANCHORAGE, ALASKA
 SHEET 1 OF 1
 C-4

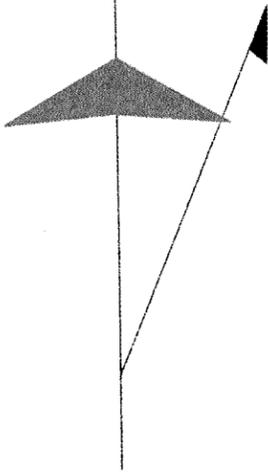


MAGNETIC DECLINATION 079° 22' 03" EAST
 AVERAGE ANNUAL CHANGE - 2' 30" WEST

DEPARTMENT OF THE AIR FORCE		
DIRECTORATE OF CIVIL ENGINEERING DCS/P&R - WASHINGTON, D.C.		
ALASKAN AIR COMMAND		
MASTER PLAN		
REAL ESTATE MAP		
GALENA, ALASKA		
SCALE: 1 INCH=100 FT.	DATE 1 JAN 72	C-4
MASTER PLANNING DIRECTIVE 53-1		
U.S. ARMY ENGINEER DISTRICT, ALASKA ANCHORAGE, ALASKA		
		SHEET 1 OF 1

N 102,000

TRUE NORTH



MAGNETIC DECLINATION 1979 22° 03' EAST
 AVERAGE ANNUAL CHANGE - 2' 30" WEST

100 0 100 200

20' R.O.W.

LOX PLANT LOT

N 101,500



Tract 200 Lease
 from State of Alaska

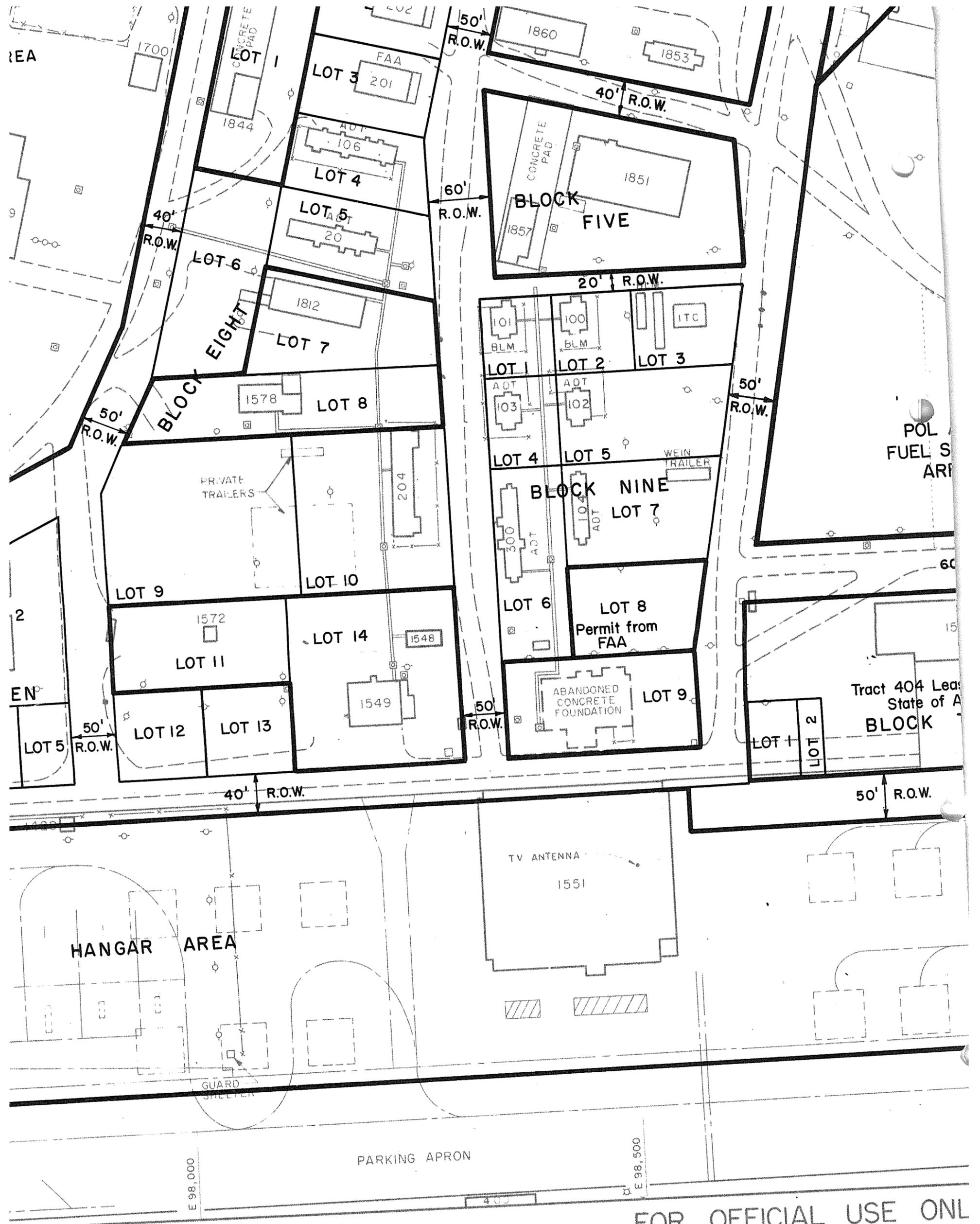
LOT

PAVED 4' SHOULDERS

TO AMMO. STORAGE BLDG.

GP-16

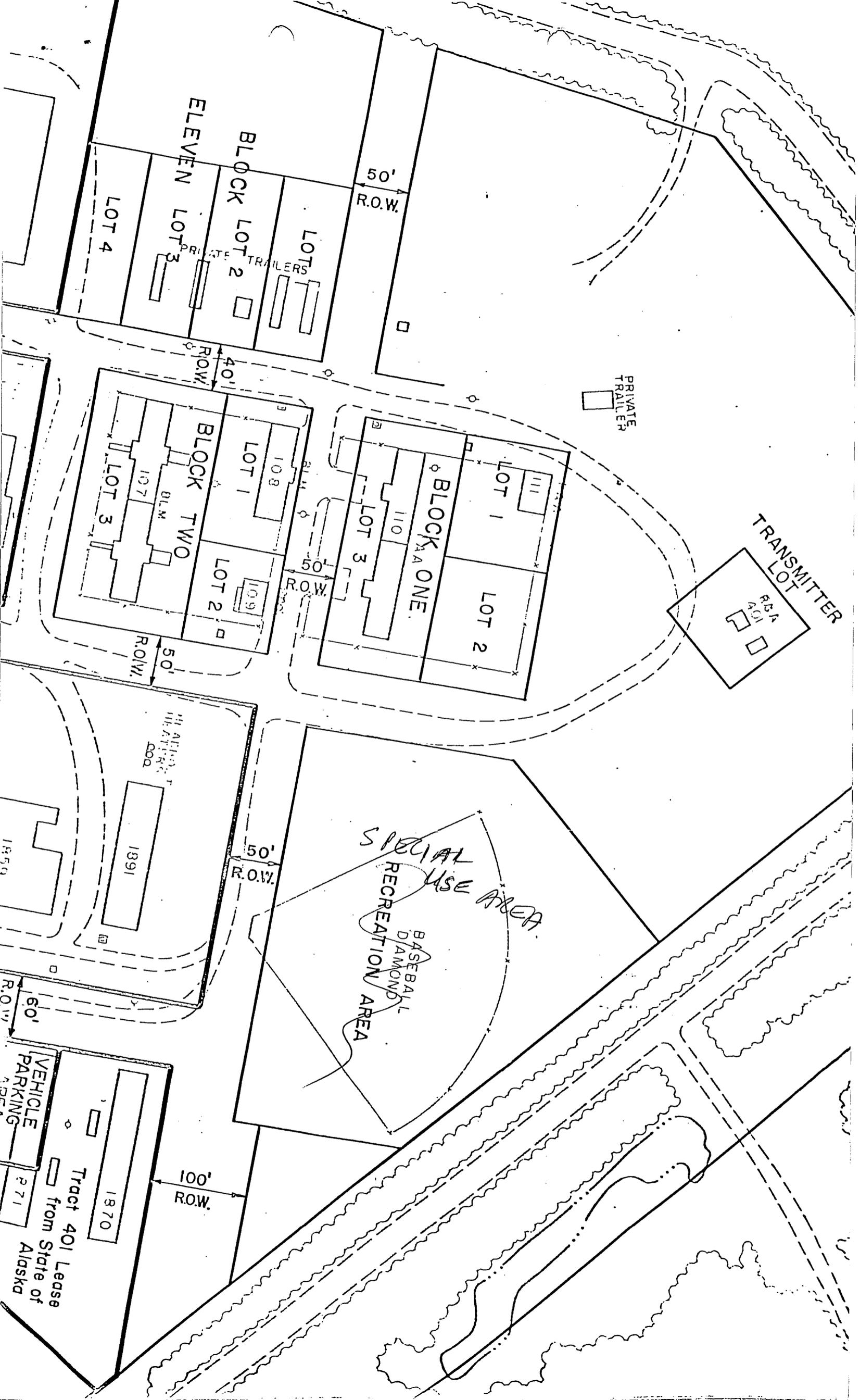
GP-10



GP-16

GP-10

FOR OFFICIAL USE ONLY



ELEVEN

BLOCK LOT 2

LOT 2

50' R.O.W.

LOT 4

PRIVATE TRAILERS

PRIVATE TRAILER

TRANSMITTER LOT

R.G.A. 401

BLOCK ONE

LOT 1

LOT 2

LOT 3

BLOCK TWO

LOT 1

LOT 2

LOT 3

50' R.O.W.

50' R.O.W.

SPECIAL USE AREA
BASEBALL DIAMOND RECREATION AREA

1891

111 ALBERT T. HEADFIELD DOQ

50' R.O.W.

VEHICLE PARKING AREA

Tract 401 Lease from State of Alaska

1870

100' R.O.W.

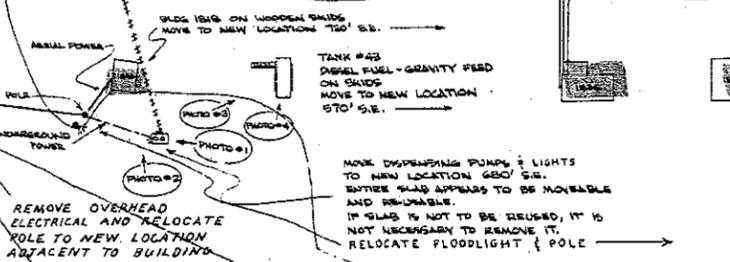
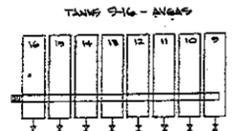
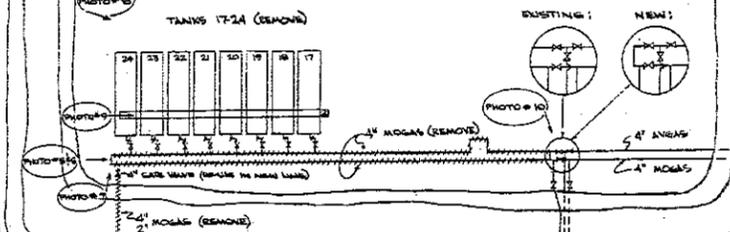
271

1975

WORK TO BE PERFORMED

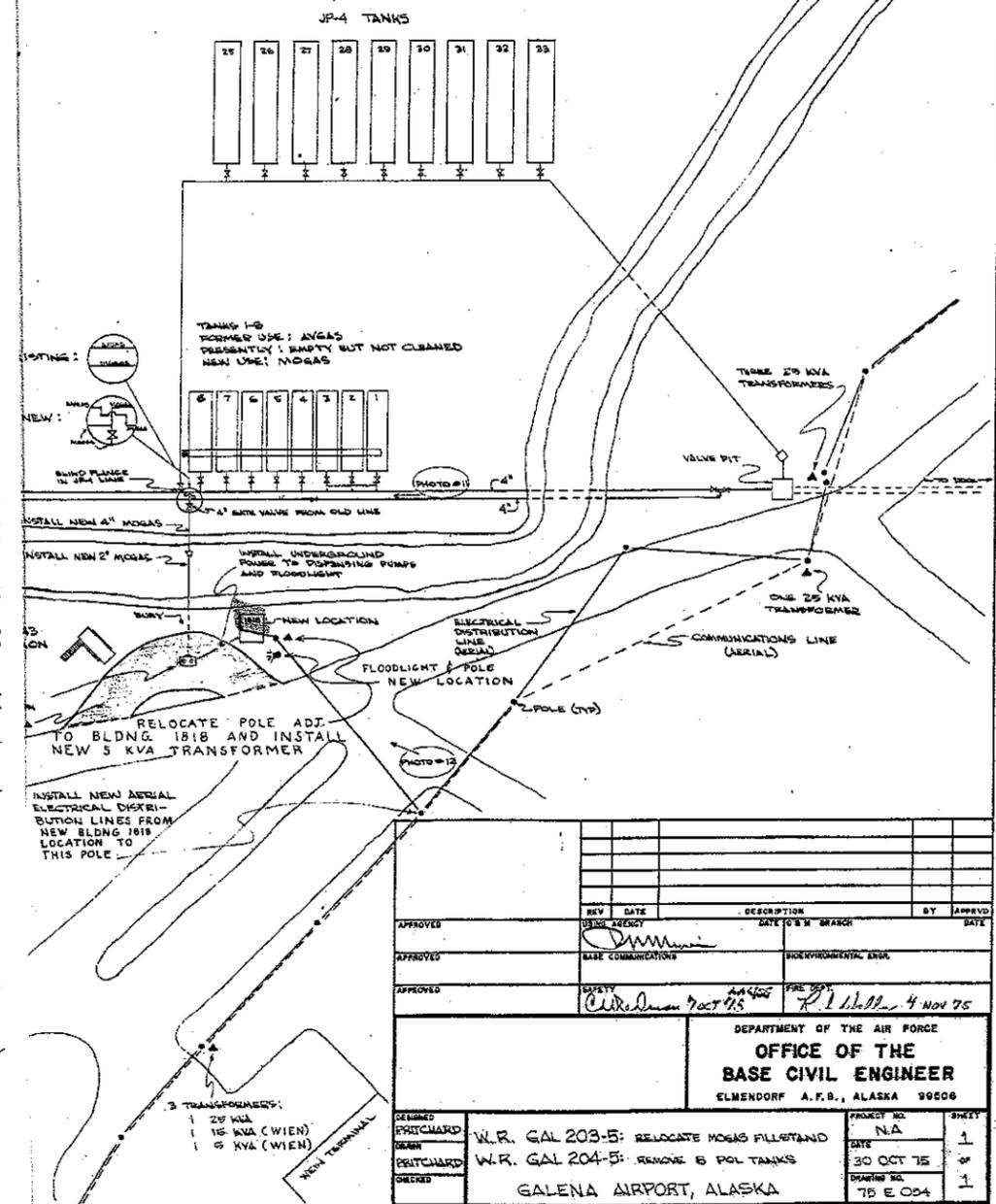
DISCONNECT ELECTRICAL AND COMM LINES TO BLDG 1818.
 DISCONNECT ELECTRICAL AND FUEL LINES FROM BLDG 1818 TO PUMPS AND FLOODLIGHT ON SLAB.
 MOVE BLDG 1818 TO NEW LOCATION.
 MOVE SLAB COMPLETE WITH PUMPS AND FLOODLIGHT TO NEW LOCATION.
 DISCONNECT AND REMOVE PIPING FROM TANKS 17-24 TO INCLUDE PIPING TO MORGAS PUMPS AND FROM THE VALVE COMPLEX 110' S.E. OF TANK 17.
 DISASSEMBLE CATIONIC ON TANK 17-24.
 REMOVE TANKS 17-24 AND THEIR WOODEN CRADLES. STORE TANKS AND PIPING WITHIN DIKED AREA BEHIND TANKS 9-16.
 MOVE 600-GAL. MOUNTED TANK 43 TO NEW LOCATION.
 COMPLETE LOOP AT VALVE COMPLEX 110' S.E. OF TANK 17 AS SHOWN.
 MAKE PIPING CHANGES NEAR TANK 8 AS SHOWN.
 INSTALL NEW 2" AND 4" MORGAS LINE FROM NEAR TANK 8 TO NEW MORGAS PUMP LOCATION, BURY OUTSIDE OF DIKE.
 INSTALL THESE NEW UTILITY POLES WHERE SHOWN.
 INSTALL ELECTRICAL AND COMM LINES FROM TRANSFORMER POLE NEAR WEIN TERMINAL TO NEW BLDG 1818 LOCATION.
 INSTALL UNDERGROUND POWER FROM BLDG 1818 TO PUMPS AND FLOODLIGHT ON RELOCATED SLAB.
 GRADE AND PACK AN AREA AROUND NEW MORGAS PUMPS AND DIESEL TANK 43 LOCATION FOR VEHICLE ACCESS.

TANKS 17-24 AND ASSOCIATED PIPING TO BE STORED IN THIS AREA AFTER REMOVAL



NOTE: SEE PHOTOS FOR CLARIFICATION

PLAN OF WORK AREA
 SCALE: 1" = 30'



APPROVED	DATE	DESCRIPTION	BY	APPROVED	DATE
[Signature]	30 OCT 75	BASE COMMUNICATIONS	[Signature]	[Signature]	4 NOV 75
DEPARTMENT OF THE AIR FORCE OFFICE OF THE BASE CIVIL ENGINEER ELMENDORF A.F.B., ALASKA 99506					
DESIGNED	W.R. GAL 203-5: RELOCATE MORGAS FILLSTAND	PROJECT NO.	NA	SHEET	1
DRAWN	W.R. GAL 204-5: REMOVE 6 POL TANKS	DATE	30 OCT 75		1
CHECKED	GALENA AIRPORT, ALASKA	DRAWING NO.	TD E 024		1

FILE NO. 356 2-59

1978

1996

N 3,928,000

N 3,928,000

N 3,927,500

N 3,927,500

N 3,927,000

N 3,927,000

N 3,926,500

N 3,926,500

E 1,805,500
E 1,805,000
E 1,804,500
E 1,804,000
E 1,803,500
E 1,803,000
E 1,802,500

E 1,805,500
E 1,805,000
E 1,804,500
E 1,804,000
E 1,803,500
E 1,803,000
E 1,802,500

- FENCE - CHAIN
- CHAIN LINK FENCE
- LAKES, PONDS & SPRING WAYS
- STREETS, PAVES & PAVING AREA - UNIMPROVED
- TRAILS
- SEWERAGE & TRICOP MAINS
- APPLIED PAVEMENT
- IMPROVED HIGHWAY CENTERLINE
- BUILDINGS & STRUCTURES - TO BE ANNOUNCED
- CONCRETE PAD
- SURVEY CONTROL MARKER
- BRANCH MARK
- BOUNDARY SURVEY MONUMENT
- INTERMEDIATE CONTOUR
- INDEX CONTOUR - DEPRESSION
- INDEX CONTOUR - DEPRESSION

NOTES:

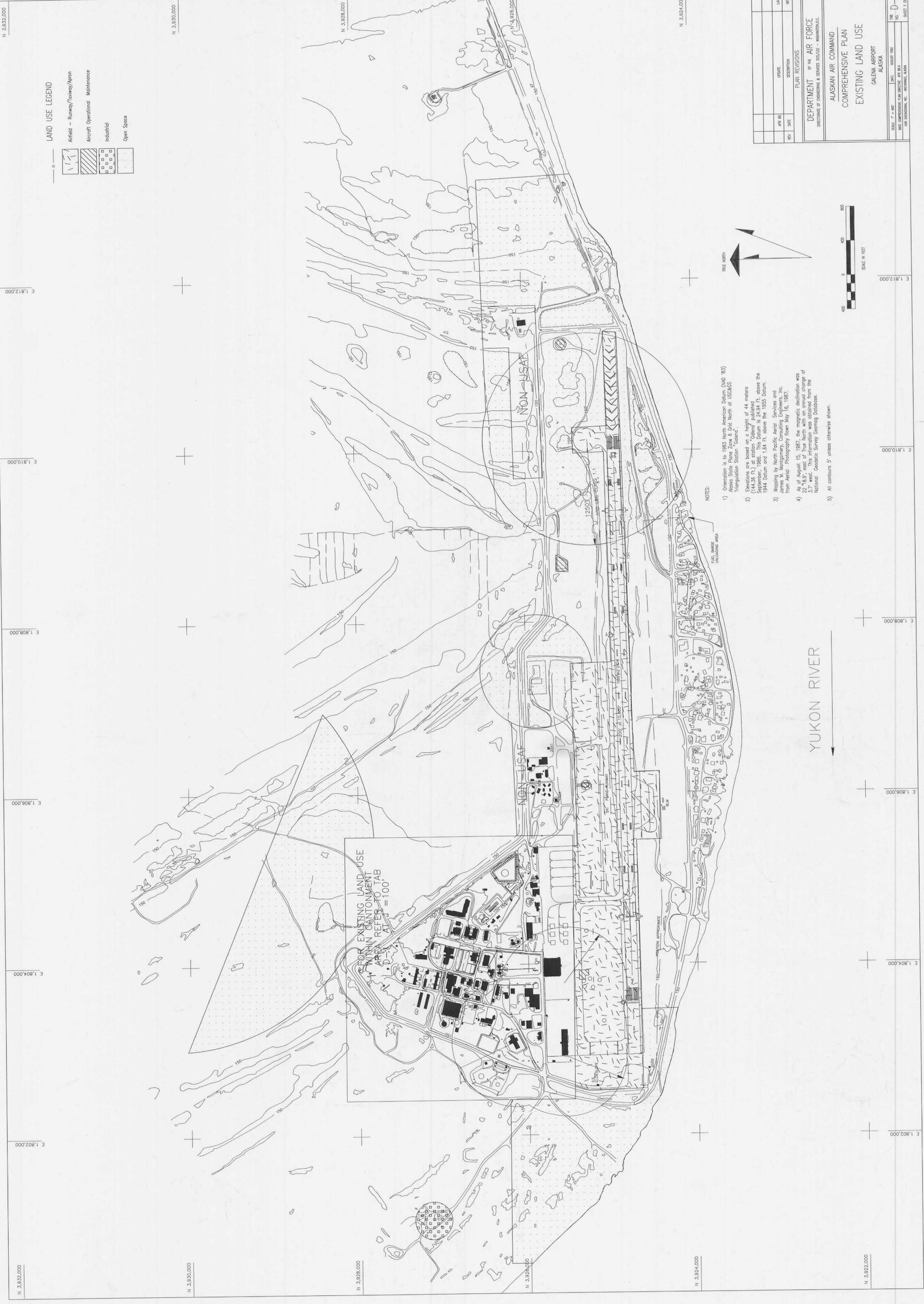
- 1) Orientation is to 1983 North American Datum (NAD '83) and also to the 1927 U.S. Coast and Geodetic Survey datum. The datum is 6 Grid North of US26X5 (Interpretation Station "Gena").
- 2) Elevations are based on a height of 44 meters above the datum. The datum is 29.94 Ft. above the September, 1986. This Datum is 29.94 Ft. above the 1944 Datum and 1.64 Ft. above the 1955 Datum.
- 3) Mapping by North Pacific Aerial Services and James M. Montgomery, Consulting Engineers, Inc. from Aerial Photography flown May 15, 1987.
- 4) As of August 15, 1987, the magnetic declination was 22°18.5' east of True North with an annual change of 3.7' west. This information was obtained from the National Geodetic Survey Geomagnetic Database.
- 5) All contours 1' unless otherwise shown.

REV	DATE	DESCRIPTION	INITIAL
1	1987	ISSUED	UM
2	1987	ISSUED	UM
3	1987	ISSUED	UM
4	1987	ISSUED	UM
5	1987	ISSUED	UM

PLAN REVISIONS	
NO.	DATE
1	1987
2	1987
3	1987
4	1987
5	1987

DEPARTMENT OF THE AIR FORCE	
OFFICE OF ENGINEERING & SERVICES DIVISION - WASHINGTON, D.C.	
PACIFIC AIR FORCES	
COMPREHENSIVE PLAN	
BASE LAYOUT	
GALENA AIRPORT	
ALASKA	
SCALE: 1" = 100'	DATE: AUGUST 1987
NO. C-1	SHEET 2 OF 2

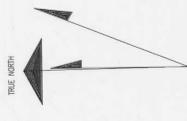




LAND USE LEGEND

	Airfield - Runway/Taxiway/Apron
	Aircraft Operational Maintenance
	Industrial
	Open Space

- NOTES:**
- 1) Orientation is to 1955 North American Datum (NAD 83) and is based on the True North at USCGS Interquadrant Station "Cobalt".
 - 2) Elevations are based on a height of 44 meters (144.355 FT) section "Cobalt" published September, 1986. This Datum is 24.94 FT. above the 1944 Datum and 1.64 FT. above the 1955 Datum.
 - 3) Mapping by North Pacific Aerial Services and James M. Montgomery, Consulting Engineers, Inc. from Aerial Photography flown May 16, 1957.
 - 4) As of August 15, 1987, the magnetic declination was 22.18 degrees east of True North with an annual change of 0.12 degrees west. Data was obtained from the National Geodetic Survey Geocoid Database.
 - 5) All contours 5' unless otherwise shown.



YUKON RIVER

FOR EXISTING LAND USE
WITHIN CONTOURMENT
AREA REFER TO TAB
D-1 AT 1" = 100'

REV	DATE	DESCRIPTION

DEPARTMENT of the AIR FORCE	
DIRECTORATE OF ENGINEERING & SERVICES SYSTEMS - ANCHORAGE	
ALASKAN AIR COMMAND	
COMPREHENSIVE PLAN	
EXISTING LAND USE	
GALEN AIRPORT	
ALASKA	

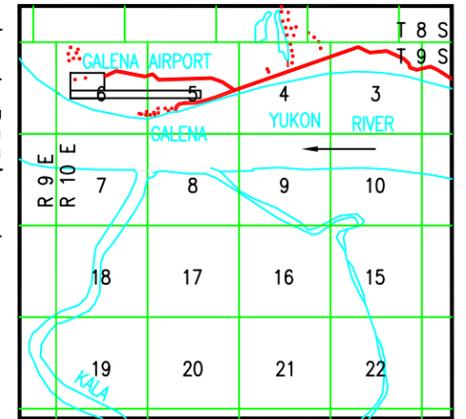
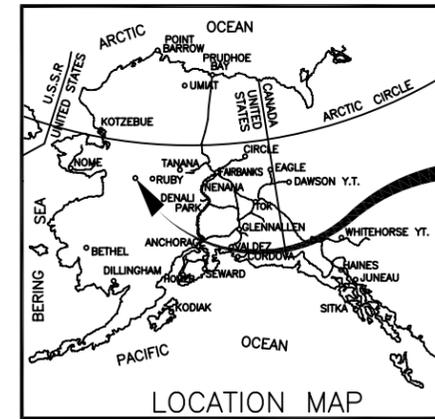
SCALE: 1" = 400'	DATE: AUGUST 1988	TWG: D-1
DATE COMPILED: JAN 1988	BY: [unreadable]	NO. [unreadable]
FOR TRANSMISSION, INC. ANCHORAGE, ALASKA		SHEET 1 OF 2

NO DATE

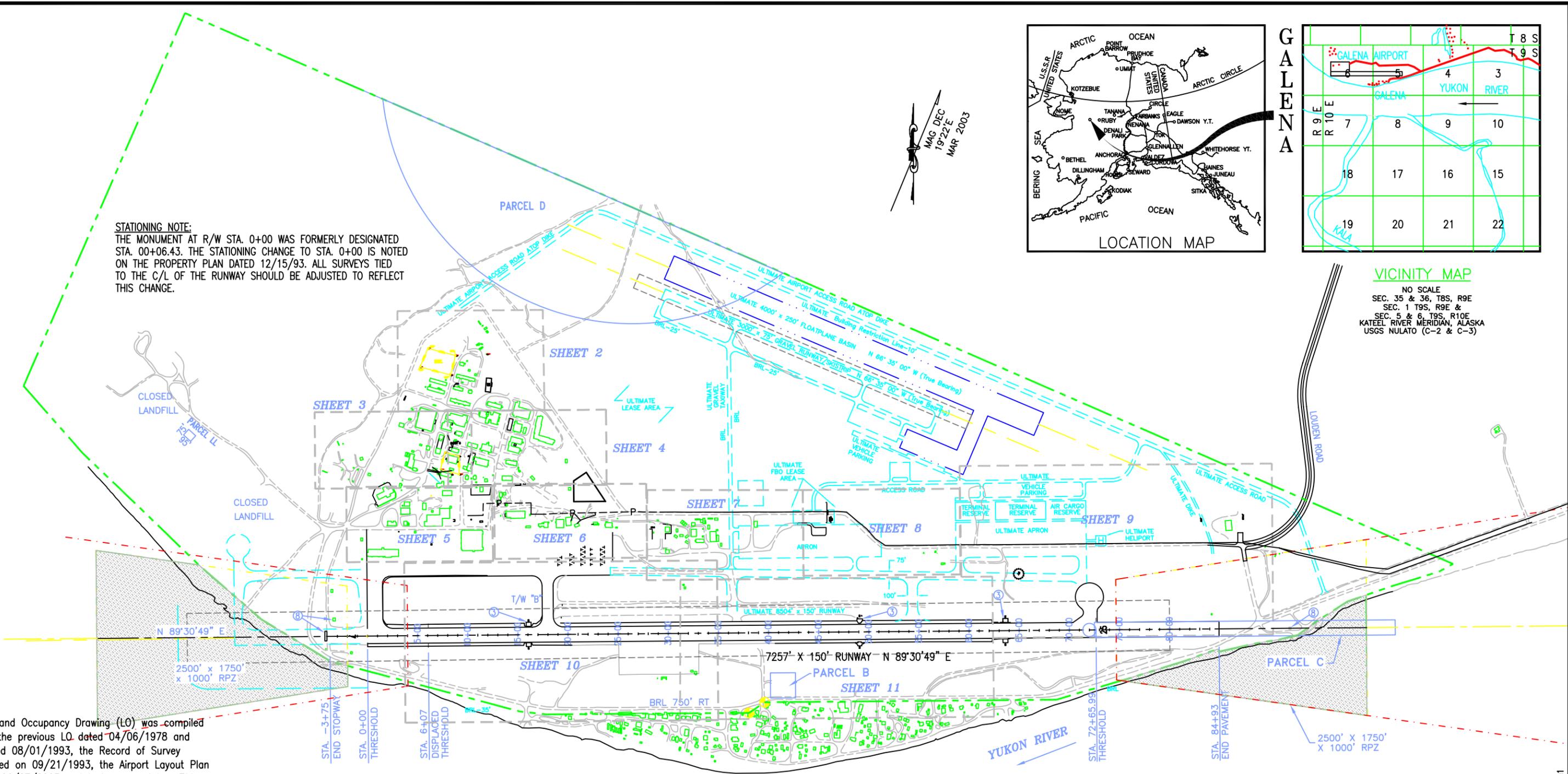
APPENDIX G

ENVIRONMENTAL RESTORATION PROGRAM MAPS

STATIONING NOTE:
 THE MONUMENT AT R/W STA. 0+00 WAS FORMERLY DESIGNATED STA. 00+06.43. THE STATIONING CHANGE TO STA. 0+00 IS NOTED ON THE PROPERTY PLAN DATED 12/15/93. ALL SURVEYS TIED TO THE C/L OF THE RUNWAY SHOULD BE ADJUSTED TO REFLECT THIS CHANGE.



VICINITY MAP
 NO SCALE
 SEC. 35 & 36, T8S, R9E
 SEC. 1 T9S, R9E &
 SEC. 5 & 6, T9S, R10E
 KATEEL RIVER MERIDIAN, ALASKA
 USGS NULATO (C-2 & C-3)



This Land Occupancy Drawing (LO) was compiled from the previous LO dated 04/06/1978 and updated 08/01/1993, the Record of Survey recorded on 09/21/1993, the Airport Layout Plan dated 06/27/2003 and last approved by FAA on 07/07/2003, and the Property Plan dated 12/15/1993 and updated 01/03/1997.

The locations and elevations of all utilities shown are approximate only; locations have not been field verified. Additional utilities that are not shown on this LO also exist.

Due to incomplete survey data, most distances are approximate.

LAND OCCUPANCY					
BLK	LOT	ADA NO.	AREA (SQ FT)	OCCUPANT	EXP. DATE
PARCEL B			62,500	U.S.A.F. TACAN SITE	RESERVE INDEFINITE
C			450,000	FAA APPROACH LIGHTING SYSTEM	RESERVE INDEFINITE
D			3,914,045.8±	U.S.A.F. DEMOLITION SITE	RESERVE INDEFINITE
LL	71362		7,125	CITY OF GALENA	08/15/2000 08/15/2005
ITEM 3	70717			U.S.A.F. ARRESTING BARRIER	01/01/2001 01/01/2006
ITEM 8	70327			U.S. ARMY COE - ILS	07/15/1988 07/15/2013

LEGEND

- EXISTING
- ULTIMATE
- BRL — BUILDING RESTRICTION LINE
- P — ABOVEGROUND POWER
- UG-P — UNDERGROUND POWER
- UG-F — UNDERGROUND FUEL
- UG-T — UNDERGROUND TELEPHONE
- SS — SANITARY SEWER LINE
- W — WATER LINE
- TREELINE
- = BUILDINGS
- = ABOVEGROUND FUEL TANKS
- = UNDERGROUND FUEL TANKS
- = AVIGATION & HAZARD EASEMENT
- ⊙ = PRIMARY MONUMENT
- ⊙ = SECONDARY MONUMENT
- ⊙ = SIGN
- ⊙ = ANTENNA OR TOWER
- ⊙ = TIE-DOWNS
- ⊙ = POWER W/LIGHT POLE
- ⊙ = FIRE HYDRANT
- ⊙ = POWER POLE
- AWOS = AUTOMATED WEATHER OBSERVING SYSTEM
- C/L = CENTERLINE
- LT = LEFT
- MH = MANHOLE
- MW = MONITORING WELL
- ROW = RIGHT OF WAY
- RPZ = RUNWAY PROTECTION ZONE
- RT = RIGHT
- R/W = RUNWAY
- POL = PETROLEUM-OIL-LUBRICANT FUEL LINES
- SD = STORM DRAIN
- SS = SANITARY SEWER
- SREB = SNOW REMOVAL EQUIPMENT BUILDING
- STA. = STATION
- T/W = TAXIWAY



BY	DATE	CHANGE
REVISIONS		

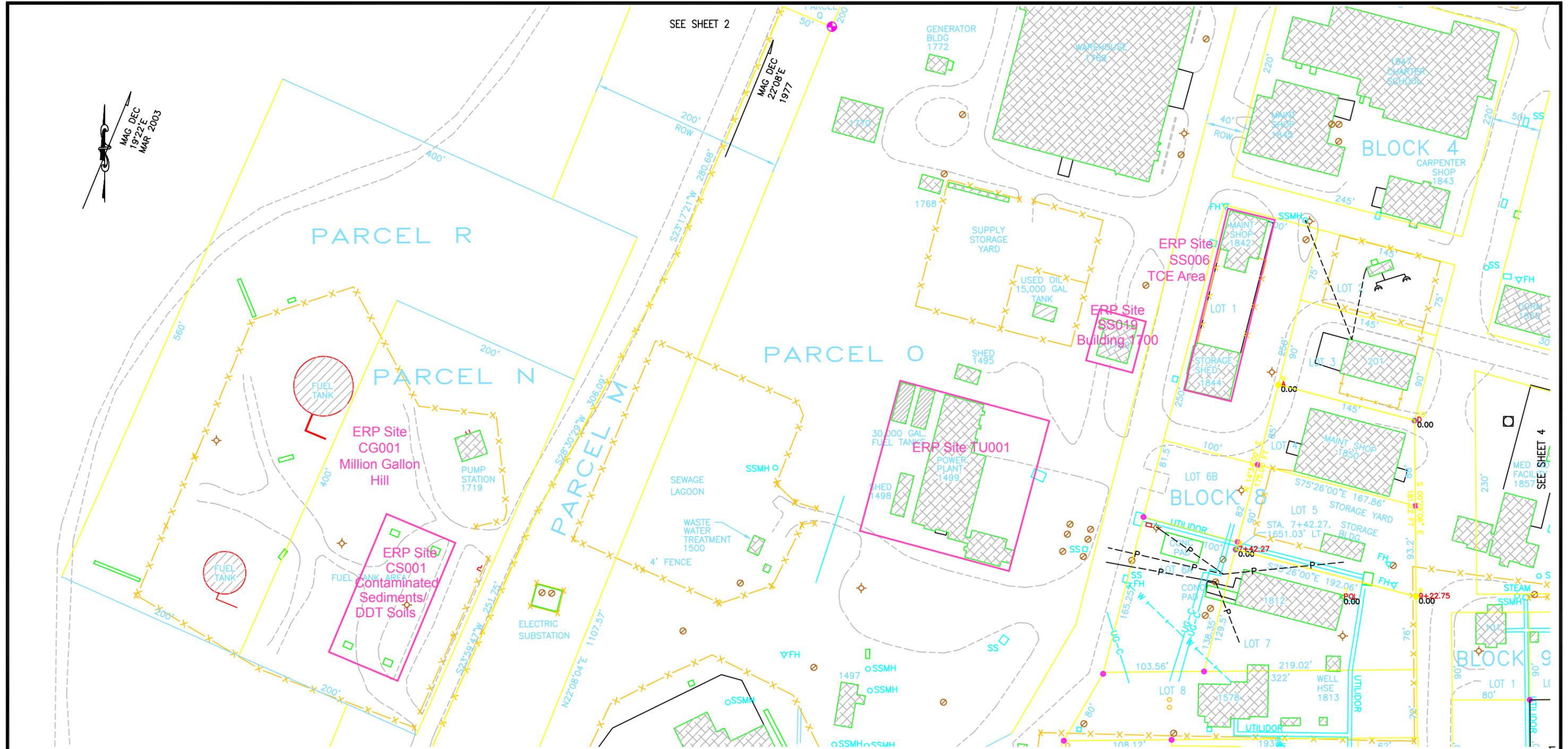
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 AVIATION LEASING AND AIRPORT LAND DEVELOPMENT

**GALENA AIRPORT
 LAND OCCUPANCY**

APPROVED
 PAMELA A. LEWIS CHIEF, AVIATION LEASING

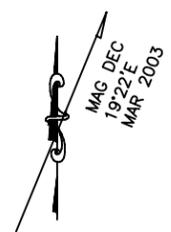
SCALE 1" = 500' DWN CAT, RP DATE 05/19/04 SHEET 1 OF 11

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SEE SHEET 2

SEE SHEET 5

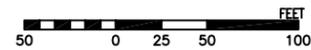


LAND OCCUPANCY

BLK	LOT	ADA NO.	AREA (SQ FT)	LESSEE	BEGIN DATE	EXP. DATE
PARCEL	M	70071	88,862.4	US ARMY CORPS OF ENGINEERS	10/01/1985	09/30/1995
	N		80,000	US AIR FORCE	RESERVE	INDEFINITE
	O		461,425	US AIR FORCE	RESERVE	INDEFINITE
	Q	02195	10,000	US AIR FORCE	07/01/1972	07/01/2027
	R	02197	144,000	US AIR FORCE	07/01/1972	07/01/2027
4	1		53,900	US AIR FORCE	RESERVE	INDEFINITE
8	1		25,000	US AIR FORCE & US F&W	RESERVE	INDEFINITE
	2		10,875	FAA - ANICS	RESERVE	INDEFINITE
	3		13,050	FAA	RESERVE	INDEFINITE
4	70198		13,296	US AIR FORCE	04/01/1986	04/01/2006
5	70198		16,197	US AIR FORCE	04/01/1986	04/01/2006
6A	70198		15,143.7	US AIR FORCE	04/01/1986	04/01/2006
	6B		8,181.6			
	7		19,950	US AIR FORCE	RESERVE	INDEFINITE
	8		24,080	US AIR FORCE	RESERVE	INDEFINITE

The locations and elevations of all utilities shown are approximate only; locations have not been field verified. Additional utilities that are not shown on this LO also exist.

Due to incomplete survey data, most distances are approximate.



BY	DATE	CHANGE
REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
AVIATION LEASING AND AIRPORT LAND DEVELOPMENT

**GALENA AIRPORT
LAND OCCUPANCY**

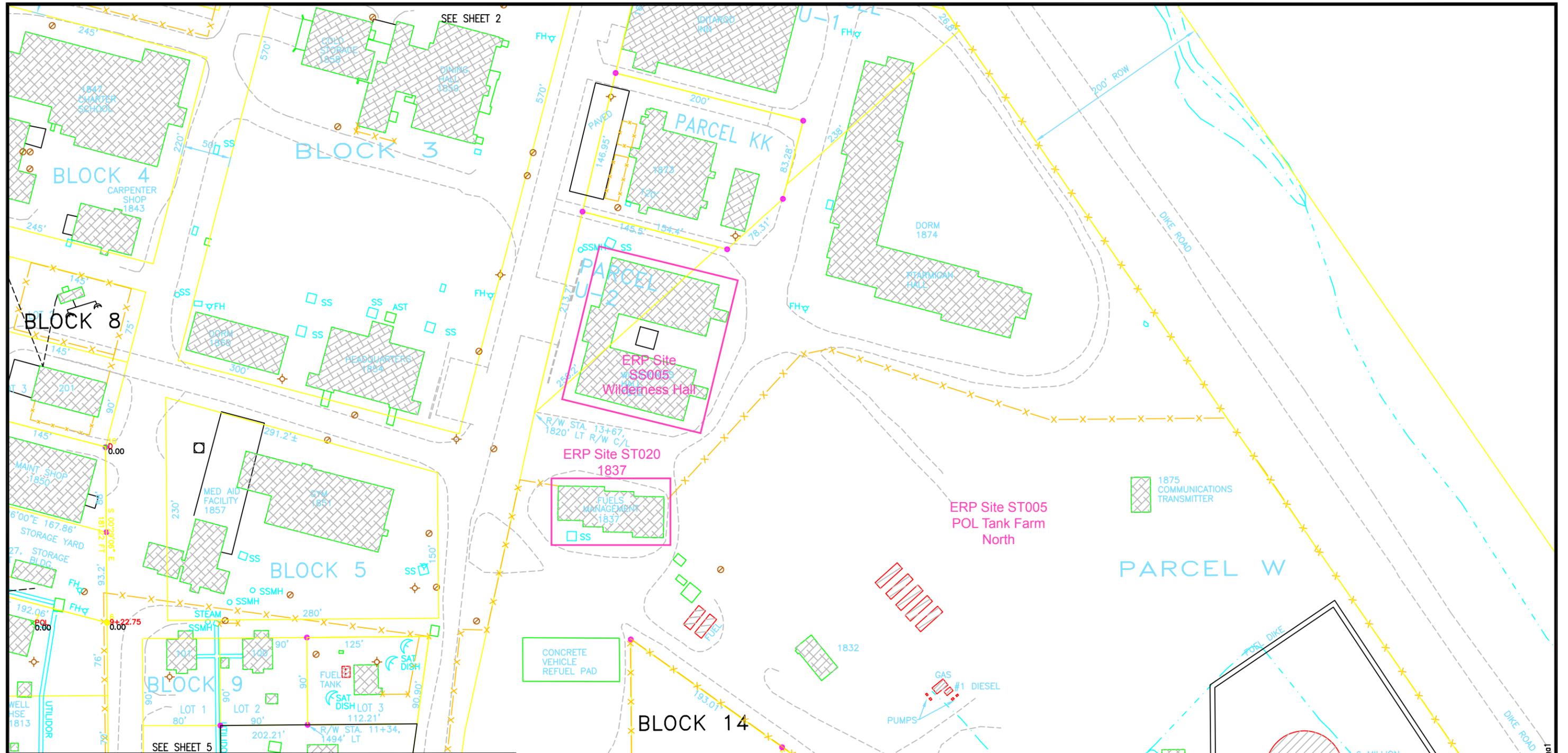
APPROVED

PAMELA A. LEWIS CHIEF, AVIATION LEASING

SCALE 1" = 50'

DWN CAT, RP DATE 05/19/04 SHEET 3 OF 11

u:\aw\1aip\galena\galena1



LAND OCCUPANCY

BLK	LOT	ADA NO.	AREA (SQ FT)	OCCUPANT	BEGIN DATE	EXP. DATE
PARCEL	KK	71050	27,938.5	CITY OF GALENA	07/01/1998	07/01/2020
	U-1	02196	48,061	US AIR FORCE	07/01/1972	07/01/2027
	U-2	02196	15,543.4	US AIR FORCE	07/01/1972	07/01/2027
	W		377,941.2	US AIR FORCE	RESERVE	INDEFINITE
3			171,000	US AIR FORCE	RESERVE	INDEFINITE
4			53,900	US AIR FORCE	RESERVE	INDEFINITE
5			53,204.5	US AIR FORCE	RESERVE	INDEFINITE
8	2		10,875	FAA	RESERVE	INDEFINITE
	3		13,050	FAA	RESERVE	INDEFINITE
	4	70198	13,296	US ARMY, CORPS OF ENGINEERS	04/01/1986	03/31/2006
	5	70198	16,197	US ARMY, CORPS OF ENGINEERS	04/01/1986	03/31/2006
9	1		7,200	BLM	RESERVE	INDEFINITE
	2		8,100	BLM	RESERVE	INDEFINITE
	3	70322	10,832.7	TELCO PROPERTIES, INC.	09/01/1987	07/01/2005



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BY	DATE	CHANGE
RP	07/10/01	PARCEL KK, U2
REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
AVIATION LEASING AND AIRPORT LAND DEVELOPMENT

**GALENA AIRPORT
LAND OCCUPANCY**

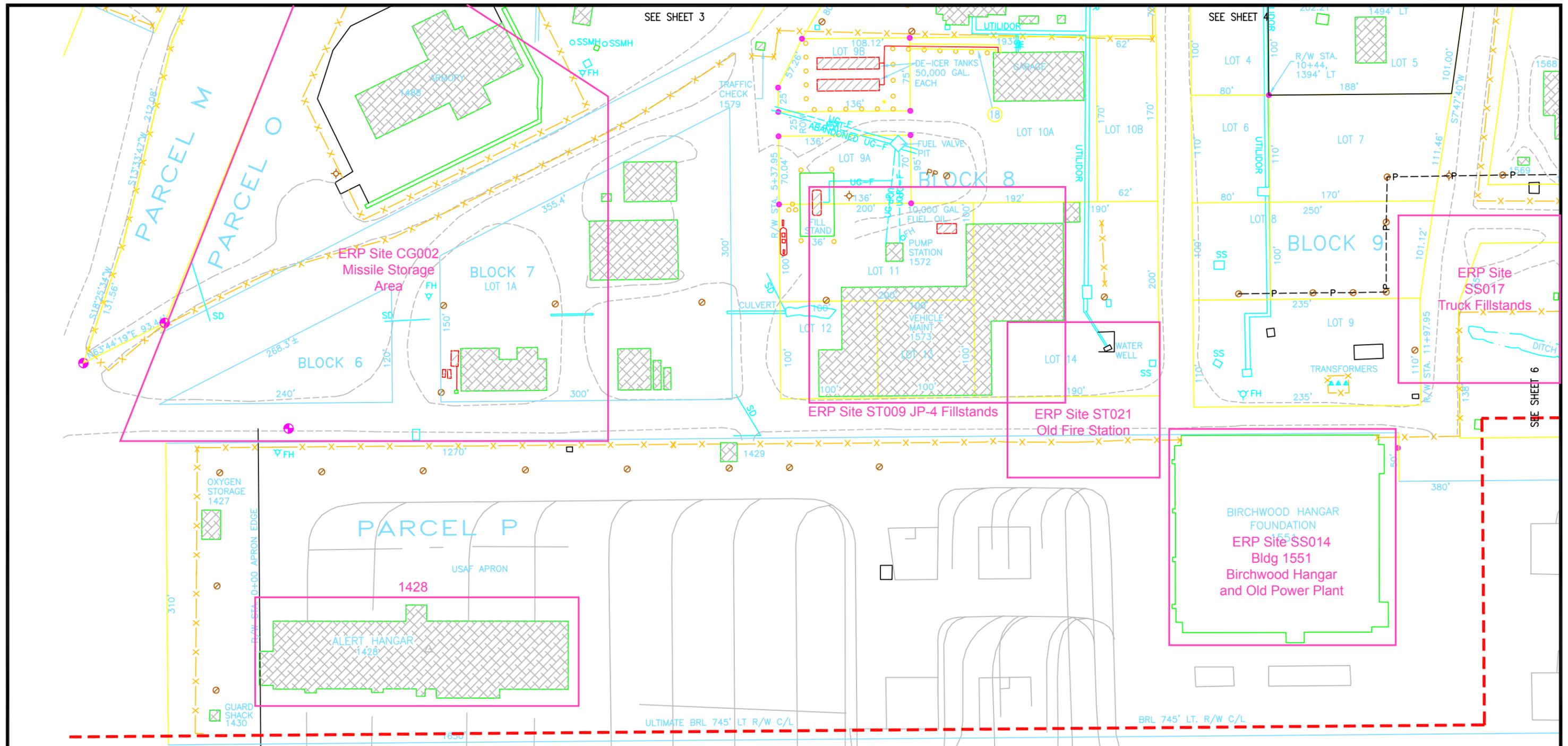
APPROVED

PAMELA A. LEWIS
CHIEF, AVIATION LEASING

SCALE 1" = 50'

DWN CAT, RP DATE 05/19/04 SHEET 4 OF 11

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LAND OCCUPANCY						LAND OCCUPANCY							
BLK	LOT	ADA NO.	AREA (SQ FT)	OCCUPANT	BEGIN DATE	EXP. DATE	BLK	LOT	ADA NO.	AREA (SQ FT)	OCCUPANT	BEGIN DATE	EXP. DATE
PARCEL	M	70071	88,862.4	US DEPT OF ARMY, COE	10/01/1985	9/30/1995	8	13	70463	10,000	US DEPT OF ARMY, COE	02/01/1992	01/31/2042
PARCEL	O		461,425	USAF	RESERVE	INDEFINITE		14		38,000	USAF	RESERVE	INDEFINITE
PARCEL	P		492,500	USAF	RESERVE	INDEFINITE							
							9	4		8,000			
	6		14,400	DOT&PF MAINTENANCE	RESERVE	INDEFINITE		5	70322	19,559.75	TELCO PROPERTIES, INC	09/01/1987	07/01/2005
	7	1A	67,500	DOT&PF MAINTENANCE	RESERVE	INDEFINITE		6		8,800	DOT&PF MAINTENANCE	RESERVE	INDEFINITE
	8	9A	71369	USAF	10/01/2000	10/01/2010		7		19,675	DOT&PF MAINTENANCE	RESERVE	INDEFINITE
		9B	71369	USAF	10/01/2000	10/01/2010							
		10A	32,640	DOT&PF MAINTENANCE	RESERVE	INDEFINITE		8		24,174.25	DOT&PF MAINTENANCE	RESERVE	INDEFINITE
		10B	10,540	DOT&PF MAINTENANCE	RESERVE	INDEFINITE		9		25,850	USAF	RESERVE	INDEFINITE
		11	20,000	USAF	RESERVE	INDEFINITE							
		12	70463	US DEPT OF ARMY, COE	02/01/1992	01/31/2042	ITEM	18	71369	485	USAF-5' PIPELINE ROW	10/01/2000	10/01/2010

SEE SHEET 10
 The locations and elevations of all utilities shown are approximate only; locations have not been field verified. Additional utilities that are not shown on this LO also exist.

Due to incomplete survey data, most distances are approximate.

MAG DEC 19 22 E MAR 2003

50 0 25 50 100 FEET

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 AVIATION LEASING AND AIRPORT LAND DEVELOPMENT

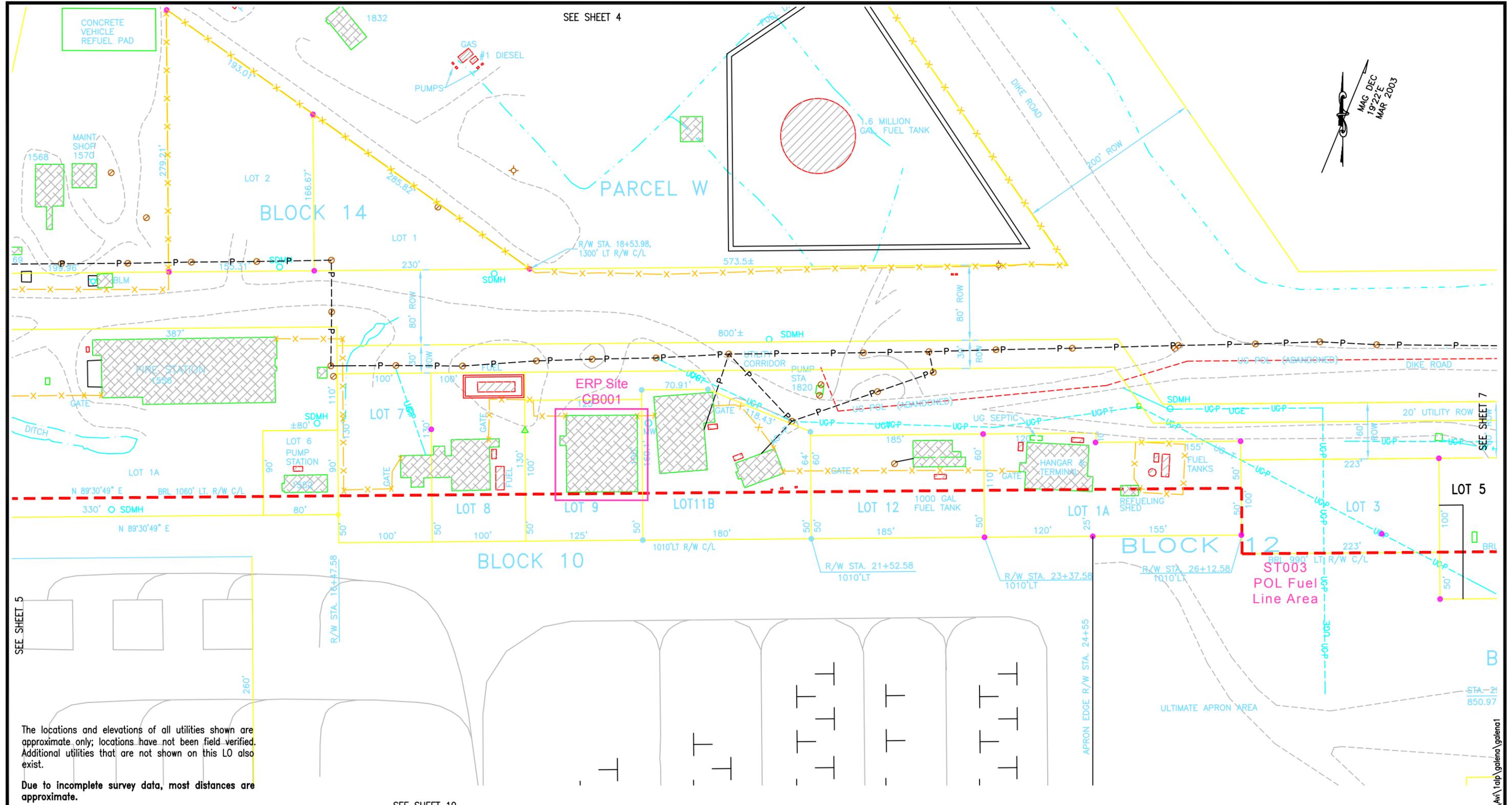
**GALENA AIRPORT
 LAND OCCUPANCY**

APPROVED
 PAMELA A. LEWIS CHIEF, AVIATION LEASING

SCALE 1" = 50'
 DWN CAT, RP DATE 05/19/04 SHEET 5 OF 11

BY DATE CHANGE REVISIONS

ur:\Am\10ip\galena\galena1



The locations and elevations of all utilities shown are approximate only; locations have not been field verified. Additional utilities that are not shown on this LO also exist.

Due to incomplete survey data, most distances are approximate.

LAND OCCUPANCY						
BLK	LOT	ADA NO.	AREA (SQ FT)	OCCUPANT	BEGIN DATE	EXP. DATE
PARCEL	W		377,941.2	USAF	RESERVE	INDEFINITE
10	1A	02228	74,397	USAF	07/01/1973	07/01/1993
	6		7,200	USAF	RESERVE	INDEFINITE
	7	00997	18,000	FRONTIER FLYING SERVICE, INC.	07/01/1968	06/30/2014
	8	00997	18,000	FRONTIER FLYING SERVICE, INC.	07/01/1968	06/30/2014
	9	70293	18,750	CITY OF GALENA	07/01/1987	07/01/2029
	11B	71079	26,303	LARRY'S FLYING SERVICE	12/01/1996	12/01/2029

LAND OCCUPANCY						
BLK	LOT	ADA NO.	AREA (SQ FT)	OCCUPANT	BEGIN DATE	EXP. DATE
10	12	70485	20,350	TANANA AIR SERVICE	08/11/1989	08/11/2009
12	1A	70708	28,700	FRONTIER FLYING SERVICE, INC	08/15/1992	07/01/2037
	3		22,300			
14	1		19,165			
	2		34,620			



BY	DATE	CHANGE
REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
AVIATION LEASING AND AIRPORT LAND DEVELOPMENT

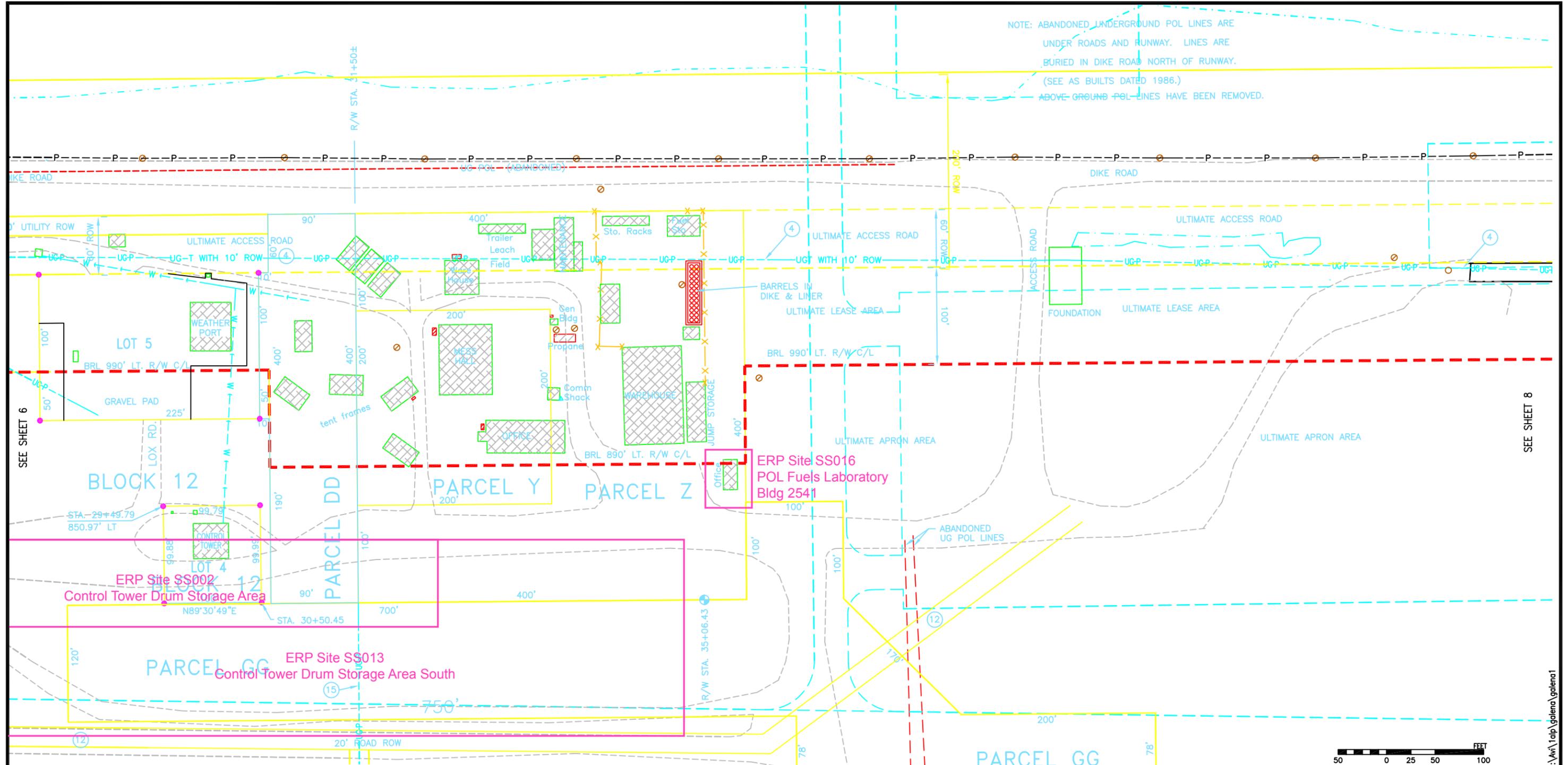
GALENA AIRPORT LAND OCCUPANCY

APPROVED

PAMELA A. LEWIS CHIEF, AVIATION LEASING

SCALE 1" = 50' DWN CAT, RP
DATE 05/19/04 SHEET 6 OF 11

NOTE: ABANDONED UNDERGROUND POL LINES ARE UNDER ROADS AND RUNWAY. LINES ARE BURIED IN DIKE ROAD NORTH OF RUNWAY. (SEE AS BUILTS DATED 1986.) ABOVE GROUND POL LINES HAVE BEEN REMOVED.

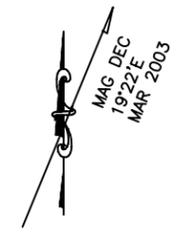


LAND OCCUPANCY						
BLK	LOT	ADA NO.	AREA (SQ FT)	LESSEE	BEGIN DATE	EXP. DATE
PARCEL	DD	71223	37,500	BLM, ALASKA FIRE SERVICE	09/01/1999	09/01/2006
PARCEL	GG		142,153.7			
PARCEL	Y		40,000	BLM, FIRE GUARD STATION	RESERVE	INDEFINITE
PARCEL	Z	71223	120,000	BLM, ALASKA FIRE SERVICE	09/01/1999	09/01/2006
ITEM	4	UTILITIES		INTERIOR TELEPHONE CO-10' WIDE ROW		INDEFINITE
ITEM	12	01777		US AIR FORCE - 20' ROAD ROW	11/15/1971	11/15/2022
ITEM	15	04644		US AIR FORCE	02/01/1982	02/01/2032
12	4	70051	10,000	US AIR FORCE - CONTROL TOWER	07/15/1984	07/15/2024
	5	71374	33,750	US FISH & WILDLIFE SERVICE	08/10/2002	09/30/2026

SEE SHEET 11

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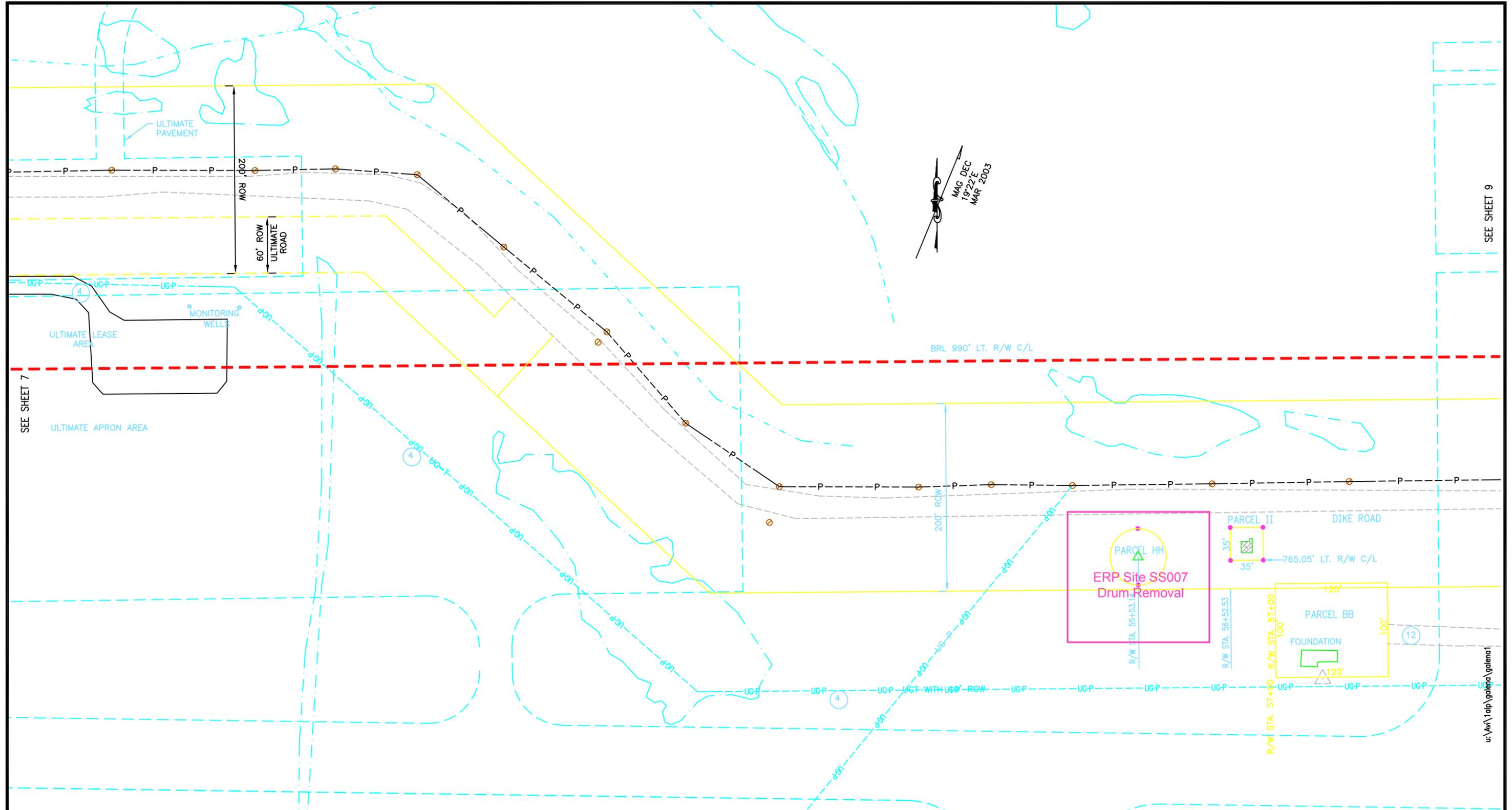
Due to incomplete survey data, most distances are approximate.



BY	DATE	CHANGE
REVISIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES AVIATION LEASING AND AIRPORT LAND DEVELOPMENT		
GALENA AIRPORT LAND OCCUPANCY		
APPROVED		
PAMELA A. LEWIS		CHIEF, AVIATION LEASING
SCALE 1" = 50'	DWN JB, RP DATE 05/19/04	SHEET 7 OF 11

SEE SHEET 8

u:\Av\Taip\Galena\Galena1



SEE SHEET 7

SEE SHEET 9

SEE SHEET 11

LAND OCCUPANCY

BLK	LOT	ADA NO.	AREA (SQ FT)	LESSEE	BEGIN DATE	EXP. DATE
PARCEL	BB	04644	12,000	USAF - ASR SITE	02/01/1982	02/01/2032
PARCEL	HH	70876	2,827.4	U.S. COAST GUARD	09/10/1994	09/10/2014
PARCEL	II	70876	1,225	U.S. COAST GUARD	09/10/1994	09/10/2014
ITEM	4	UTILITIES		INTERIOR TELEPHONE CO-10' WIDE ROW		INDEFINITE
ITEM	12	01777		US AIR FORCE - 20' ROAD ROW	11/15/1971	11/15/2022

The locations and elevations of all utilities shown are approximate only; locations have not been field verified. Additional utilities that are not shown on this LO also exist.

Due to incomplete survey data, most distances are approximate.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 AVIATION LEASING AND AIRPORT LAND DEVELOPMENT

**GALENA AIRPORT
 LAND OCCUPANCY**

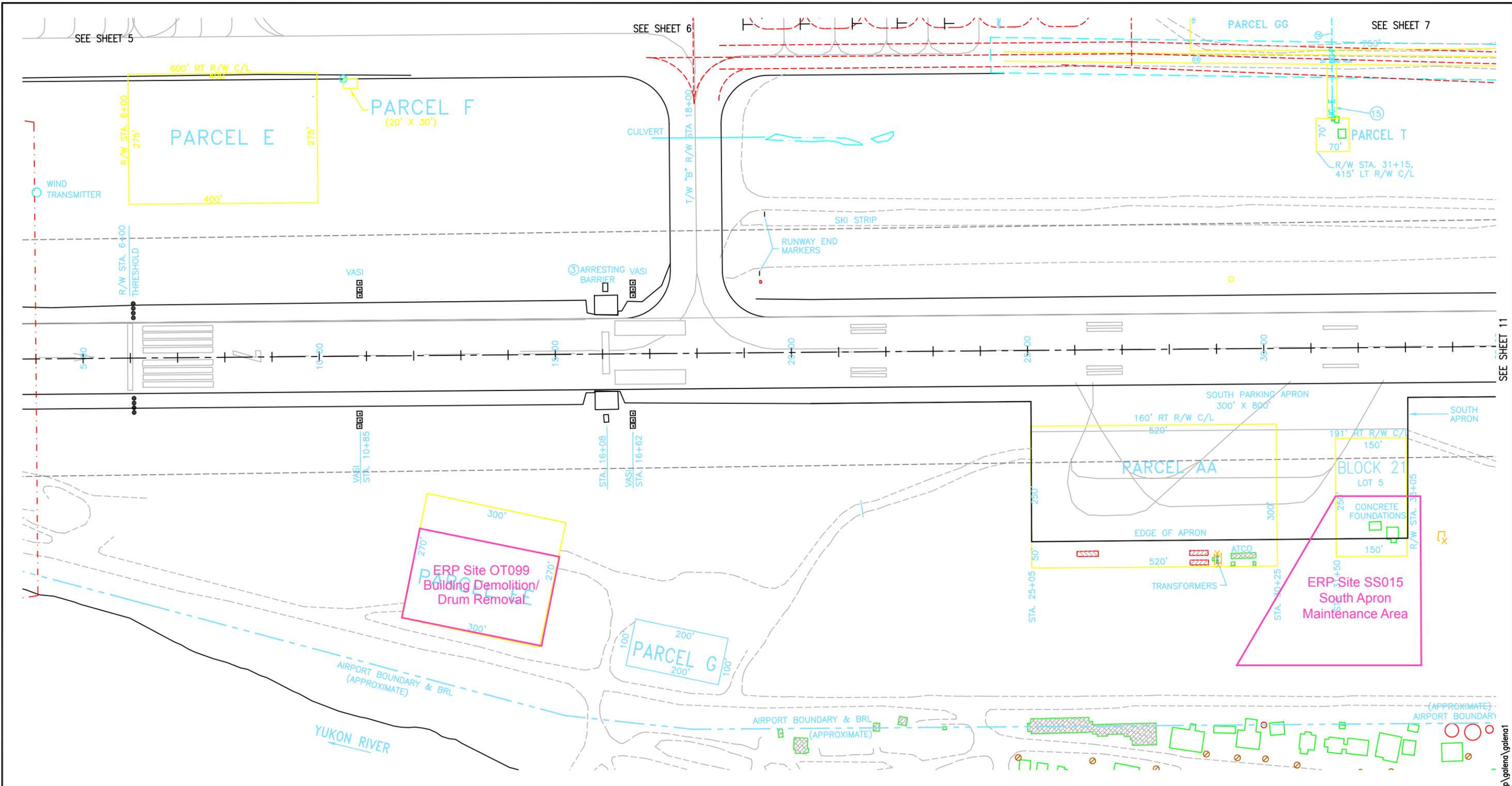


BY	DATE	CHANGE
REVISIONS		

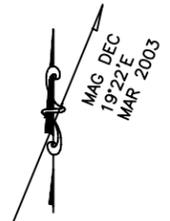
APPROVED
 PAMELA A. LEWIS CHIEF, AVIATION LEASING

SCALE 1" = 50' DWN CAT, RP DATE 05/19/04 SHEET 8 OF 11

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LAND OCCUPANCY						
BLK	LOT	ADA NO.	AREA (SQ FT)	OCCUPANT	BEGIN DATE	EXP. DATE
21	5		37,500	USAF	RESERVE	INDEFINITE
PARCEL	E		110,000	FAA	RESERVE	INDEFINITE
	F		600	USAF-WEATHER STATION	RESERVE	INDEFINITE
	G	70957	20,000	RON BURGETT	07/01/1995	11/01/2006
	AA	71222	156,000	BLM, ALASKA FIRE SERVICE	09/01/1999	09/01/2005
	EE	70786	81,000	USAF	08/01/1993	10/01/2001
	T	04644	4,900	USAF - PAR SITE	02/01/1982	02/01/2032
ITEM	3	70717		USAF - ARRESTING BARRIER	01/01/2001	01/01/2006
	12	01777		USAF - 20' ROAD ROW	11/15/1971	11/15/2022
	15	04644		USAF - 20' ROW	02/01/1982	02/01/2032



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BY	DATE	CHANGE
REVISIONS		

STATE OF ALASKA
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AND PUBLIC FACILITIES
AVIATION LEASING AND AIRPORT LAND DEVELOPMENT

GALENA AIRPORT LAND OCCUPANCY

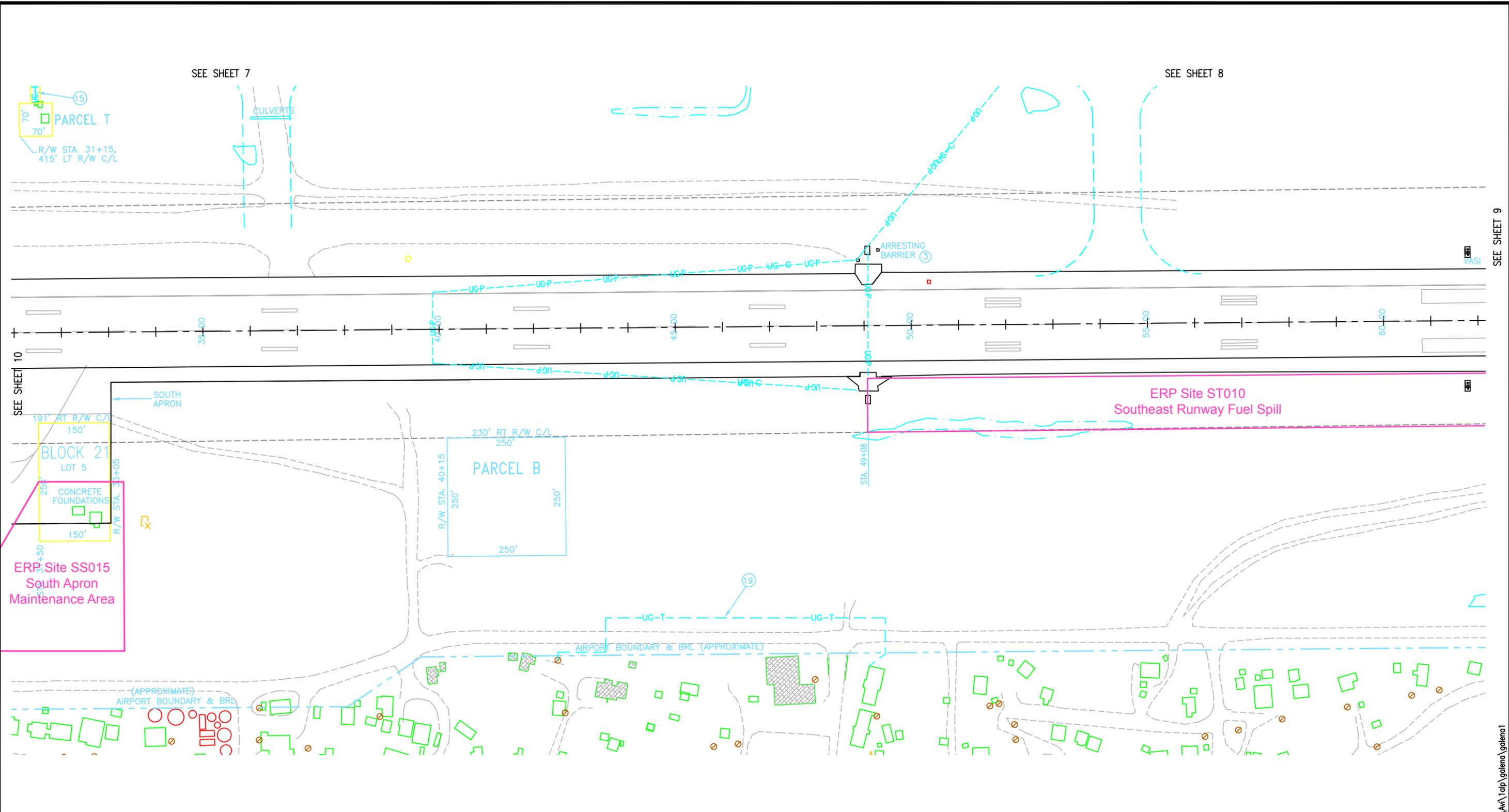
APPROVED

PAMELA A. LEWIS CHIEF, AVIATION LEASING

SCALE 1" = 100'

DWN JB, RP
DATE 05/19/04 SHEET 10 OF 11

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SEE SHEET 7

SEE SHEET 8

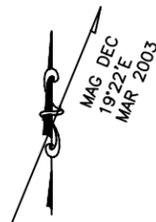
SEE SHEET 9

SEE SHEET 10

LAND OCCUPANCY						
BLK	LOT	ADA NO.	AREA (SQ FT)	OCCUPANT	BEGIN DATE	EXP. DATE
PARCEL	B		62,500	USAF-TACAN SITE	RESERVE	INDEFINITE
	T	04644	4,900	USAF - PAR SITE	02/01/1982	02/01/2032
ITEM	3	70717		USAF-AIRCRAFT ARRESTING BARRIER	01/01/2001	01/01/2006
	15	04644		USAF - POWER CABLE ROW	02/01/1982	02/01/2032
	19	UTILITY		TELALASKA, INC. ADA INTERIOR TELEPHONE CO. PERMIT 04-010	03/17/2004	INDEFINITE
	21	5	37,500	USAF	RESERVE	INDEFINITE

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REVISIONS			
BY	DATE	CHANGE	

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 AVIATION LEASING AND AIRPORT LAND DEVELOPMENT

**GALENA AIRPORT
 LAND OCCUPANCY**

APPROVED
 PAMELA A. LEWIS CHIEF, AVIATION LEASING

SCALE 1" = 100'
 DWN CAT, RP DATE 05/19/04 SHEET 11 OF 11

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