

**Addendum No. 1 to the  
Site Specific - New Housing Subdivision  
Improvements Environmental Assessment**

**Determinations and Compliance Findings for HUD-assisted Projects  
24 CFR Part 58  
August 2022**

**Akiak Home Relocation and Managed Retreat Project  
and  
Other Disaster Related Infrastructure Development**

## **Project Information**

**Project Name:** Akiak Home Relocation and Managed Retreat Project

**Responsible Entity:** Akiak Native Community (ANC)

**Grant Recipient** (if different than Responsible Entity):

**State/Local Identifier:** Alaska

**Preparer:** Joel Neimeyer, P.E.

**Certifying Officer Name and Title:** Michael P. Williams, Sr., Akiak Tribal Chief

**Grant Recipient** (if different than Responsible Entity):

**Consultant** (if applicable): Joel Neimeyer, P.E.

### **Direct Comments to:**

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**Project Location:** Akiak, Alaska

**Purpose for Addendum No. 1 (New Housing Subdivision Improvements):** The original site specific environmental assessment for new housing subdivision improvements was published in June 2020. Since that time significant pre-construction activities and project development has occurred, and in particular, the completion of a wetlands study (September 2021) which found that virtually all of the proposed housing subdivision is not in wetlands. Furthermore, the June 2020 document was silent on development of a new soil borrow site for the subdivision expansion or where local fill material will be mined. Since that time a new borrow site has been identified for development that is near the housing subdivision which will reduce construction costs by limiting the truck cycle time for transporting local fill material. The proposed new borrow site will limit transportation conflicts with community members by routing construction traffic from vehicular and 4-wheeler traffic. Consequently, the tribe concluded that communicating to the public and other stakeholders of the borrow site development and new understanding of housing subdivision improvements (in 2022/2023) was consistent with the goals of the National Environmental Policy Act and requirements set forth for a HUD-funded Responsible Entity.

**Tiered Environmental Review** (see 24 CFR Part 58.15 Tiering): This document is part of a suite of tiered environmental review documents. In May 2019 the community of Akiak, Alaska experienced a significant springtime riverine erosion event during a high water / spring melt event. Historically, the river had only eroded the riverbank during fall storms that drove waves onto the riverbank. In response, the community developed the Akiak Home Relocation and Managed Retreat Project, and a tiered environmental review process was adopted by the Tribe to describe and communicate potential environmental impacts to regulatory agencies, residents and stakeholders, as the project level information was obtained.

With the advent of the COVID-19 pandemic, the Tribe was eligible for and received federal funding in 2020, 2021 and 2022 (i.e. CARES Act, American Rescue Plan [ARP] Act, etc.) to address the virus. The Tribe decided to use some of the tribal CARES Act and ARP Act funding for infrastructure development projects which addressed managed retreat and COVID-19 threats. The Tribe decided to approach the COVID-19 pandemic and the significant riverine erosion all as one inter-related disaster mitigation effort, and the Akiak environmental review documents prepared in 2020, and subsequently amended, reflect this approach.

The environmental review documents that comprise the Akiak tiered environmental review follow:

- a. Broad Review - Environmental Assessment - Akiak Home Relocation and Managed Retreat Project. **Published June 2020.**
- b. Amendment No. 1 to the Broad Review - Environmental Assessment - Akiak Home Relocation and Managed Retreat Project and Other Disaster Related Infrastructure Development. **Published September 2021.**
- c. Site Specific - Short-Term Response: Infrastructure Less Than 200 Feet from the River. This includes six home relocations and assorted “out buildings”, riverbank stabilization and building a seventh home. **Published June 2020.**
- d. Site Specific - Short Term Response - Addendum No. 1. **Published January 2021.**
- e. Site Specific - New Housing Subdivision Improvements. **Published June 2020.**
- f. Site Specific - New Housing Subdivision Improvements - Addendum No. 1. **This document.**
- g. Site Specific - Low-Earth Orbit Broadband Improvements. **Published September 2021.**
- h. Site Specific - Akiak Power Plant Refurbishment. **Published September 2021.**
- i. Site Specific - Solid Waste Site, Honey-bucket Lagoon, and Sewage Lagoon Improvements.
- j. Long-Term Response: Infrastructure Less Than 600 Feet from the River. This includes contaminated sites, a commercial store, the City building, Head Start building, the old BIA School (unused), National Guard building, bulk fuel farm and marine fuel header, roads, utilities, and additional home relocations. Given how critical the bulk fuel farm is to the community for electrical power and heating, this infrastructure is included in the long-term response despite being 650 feet from the river’s edge (as of June 2019).

**Description of the Proposed Project** [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

Project Description Update: For context for 2022/2023 proposed housing subdivision improvements, please refer to the [Site Specific Environmental Assessment - New Housing Subdivision Improvements \(June 2020\)](#). The referenced document described four potential sites for a 30-lot housing subdivision, at a minimum. The tribe selected Site #1 for expansion of the Akiak Subdivision in 2020 (see aerial photo below).



Housing Subdivision Improvements are further described as follows.

Wetlands Determination: In September 2021 a report entitled: [WETLAND DELINEATION AND PROPOSED JURISDICTIONAL DETERMINATION FOR PROPOSED AKIAK INFRASTRUCTURE PROJECT, AKIAK, ALASKA](#) was completed. Effectively, the entire subdivision expansion and proposed soil borrow sites are all “uplands” and will not require a US Army Corps of Engineers wetlands permit. See Appendix #1 for an aerial photo that delineates the wetlands and uplands with respect to the housing subdivision development.

Borrow Site & Pioneer / Gravel Roads for Subdivision expansion: The trapezoidal area adjacent to the existing landfill is the primary soil borrow site (Appendix #1) for the housing subdivision expansion. Soil will be mined, hauled and placed for the housing subdivision pioneer roads (i.e. no imported gravel topping surface, which must be barged to Akiak). Also, soil mined from the borrow site will be used to cover the existing landfill and honey bucket lagoon.

Approximately, 3500 LF of gravel roads will be developed for the 30-lot subdivision expansion. In general, the roads will be 20-feet wide and topped with imported gravel. A calcium chloride solution will be mixed in the gravel layer to minimize dust. Given limited transportation construction funding, the Tribe will likely develop pioneer roads constructed

of local sands until such time funding is secured to procure, ship and place a gravel topping surface.

A Storm Water Pollution Prevention Plan is required from the Alaska Department of Environmental Conservation (A-DEC) for housing subdivision improvements including the proposed soil borrow site. Of note, a storm water plan is in place for subdivision improvements associated with the sanitation development by the Alaska Native Tribal Health Consortium (ANTHC), as discussed below. Another storm water plan is required for the new borrow site development.

There are two alternative soil borrow sites other than the site proposed adjacent to, and northwest of, the existing landfill. See Appendix #2. The first is an existing borrow site that is between the Akiak airport and the river. The Tribe has decided to limit use of this existing borrow site given fears of significantly aiding riverine erosion if the river ever migrates westerly into the site. This would rapidly threaten the Akiak airport. The second site is not yet developed, but permitted, and is adjacent to the existing sewage lagoon. This undeveloped site is approximately 2800 feet from the subdivision site. Furthermore, there are a number of occupied houses along the route from the undeveloped borrow site and the expanded housing subdivision. Whereas a new borrow site adjacent to the existing landfill will not impact existing housing or those that are traveling to the landfill (i.e. the new borrow site access will be west and away from the landfill and honey bucket lagoon).

The Tribe has concluded it is best to develop a new borrow site northwest of the existing landfill.

Existing Landfill & Honey Bucket Lagoon Close-out: While the existing landfill and honey bucket lagoon are located in the middle of the proposed housing subdivision expansion, close out of these facilities will be explored in a subsequent environmental assessment for these improvements (i.e. Site Specific - Solid Waste Site, Honey-bucket Lagoon, and Sewage Lagoon Improvements). A new borrow site northwest of the landfill will be used to close out the landfill and honey bucket lagoon.

Sanitation: The Tribe is collaborating with ANTHC for the development of water and sewer main and service construction for a portion of the housing subdivision expansion. This specific effort was reviewed by ANTHC environmental staff with a categorical exclusion drafted. See Appendix #3 for a layout of the ANTHC managed sanitation improvements.

The current sanitation improvements under construction are described further in the ANTHC [2018 Akiak Sanitation Preliminary Engineering Report](#), which is based upon expanding the subdivision for eight new vacant lots. The 2018 report was drafted prior to the 2019 riverine erosion event, and the Tribe subsequently determined that the housing subdivision expansion must include a minimum of 30 new vacant lots. The Tribe's engineering consultant (CRW Engineering Group) has completed 95% design drawings for the lot, road, and sanitation layout for the expanded housing subdivision. The design drawings were submitted to A-DEC in August 2022 for review and approval to construct. See Appendix #4 for a general layout of the proposed sanitation improvements for the 30-lot housing subdivision expansion.

The Tribe is seeking funding from a number of sources to complete the sanitation improvements for the expanded housing subdivision so that six new homes currently under construction by the Association of Village Council Presidents - Regional Housing Authority can be served timely with sanitation service.

Electrical: The Tribe is collaborating with the City of Akiak on expanding the City-owned overhead electrical distribution system. See the [Amendment No. 1 to the Memorandum of Understanding](#) on the Akiak Home Relocation and Managed Retreat Project for further description of this collaboration. Design drawings are completed, and the Tribe anticipates issuing a construction solicitation for construction of the overhead electrical distribution system improvements in 2022. In general, the overhead power extension is comprised of power poles and overhead wiring which are located in rights-of-way and easements for the expanded housing subdivision. No permits are required for expanding the overhead power distribution system, since all of the improvements will be uplands, and the City has approved of this work.

It is estimated that a total of 3000 LF of overhead power distribution system improvements are required for the 30-lot subdivision expansion.

Housing & Vacant Lot Requirements: In 2022, the housing authority has started building six new homes in the expanded subdivision with a proposed completion date of 2023. These six new homes will serve to address overcrowding in Akiak. It is the Tribe's understanding that the housing authority completed, separately, their own environmental review documents for the six new homes.

Recent riverine erosion in June 2022 has resulted in the Tribe receiving funding from the Natural Resources and Conservation Services to relocate two existing homes into the expanded housing subdivision. The Tribe anticipates relocating these two threatened homes, currently located near the river, before the winter of 2022. There are two available vacant lots in the subdivision for the two homes in question and the lots have nearby power and sanitation mains to readily connect the homes for service. See Appendix #5 for a site layout for these two homes to be relocated.

The [Site Specific - Short-Term Response Environmental Assessment](#) describes the 2020 tribal effort to relocate six existing homes. With the relocation of the six existing homes in 2020, development of two quarantine homes in 2021, proposed development of one Bureau of Indian Affairs - Housing Improvement Program home in 2023, development of the six new housing authority homes in 2022/23, and the pending relocation of two existing homes in 2022, all eight vacant lots proposed in the ANTHC 2018 sanitation report have been utilized. In other words, the relocation of eight homes and construction of nine new homes supports the Tribe's earlier decision to develop at least 30 new vacant lots after the 2019 riverine erosion event. Further information on the threatened homes by the river can be found in the [2022 NRCS Akiak trip report](#) and [2019 NRCS Akiak trip report](#).

**Statement of Purpose and Need for the Proposal** [40 CFR 1508.9(b)]:

Akiak is facing a new environmental threat that has caused anxiety and community-wide concern for the safety of community members and specific families living in homes near the river. The development of a new housing subdivision, as a central part of the Akiak Home Relocation and Managed Retreat project, addresses in part overcrowding (which the community reports is common in a number of households) but also provides a safe location to relocate threatened infrastructure.

**Existing Conditions and Trends [24 CFR 58.40(a)]:**

The proposed 30-housing unit subdivision is undeveloped land. A significant portion of the proposed water, sewer and power distribution improvements will be near existing and proposed housing and roads.

Most of the land to be developed is either owned by the City, the Tribe, or Kokarmiut Corporation. All are committed to making this land available for the Akiak Home Relocation and Managed Retreat project.

**Funding Information**

The Tribe and the City have both applied for grant funding for managed retreat project tasks and have been declined on some of the requests. These declinations are not included in the following table which identifies funding that has been approved or is pending (i.e. grant agreement has not yet been issued).

<b>Grant Number</b>	<b>HUD Program (or other source)</b>	<b>Funding Amount</b>	<b>Status</b>
Alaska VSW funding	<a href="#">Infrastructure Protection Funding</a> (for disconnecting water and sewer services to 6 homes and a portion of two sewer mains)	\$68,159	Completed
NRCS	<a href="#">Emergency Watershed Protection (EWP) Program</a> (for relocation of 6 homes)	\$134,831	Completed in 2020
NRCS	<a href="#">Emergency Watershed Protection (EWP) Program</a> (for relocation of 2 homes)	\$57,854	Scheduled for 2022

HUD - ICDBG FR-6200-N-23	Community Development Block Grant Program for Indian Tribes and Alaska Native Villages (for sanitation improvements to six HUD funded homes on Dummocks Street) and six relocated homes (2020). The tribe has used a portion of these funds for the six relocated homes and for Alternative #1 for the ANTHC sanitation project. Alternative #1 includes some water and sewer main extensions in the expanded housing subdivision.	\$800,000	Approved 2020, and under construction, as part of the ANTHC funded sanitation improvements.
Alaska Division of Homeland Security & Emergency Management	<a href="#">Hazard Mitigation Grant Program</a> (for “advanced assistance” with pre-construction tasks for the proposed subdivision). This work will address pre-construction tasks for managed retreat project tasks.	\$185,000	Approved.
BIA-Housing Improvement Program	For a new home for the seventh homeowner living within 200 feet of the river, and whose home is structurally unsound for moving.	\$225,000	Approved, August 2021
BIA - Tribal Resilience	Pre-construction activities for managed retreat project elements.	\$149,815	Completed
HUD - ICDBG CARES	Community Development Block Grant Program for Indian Tribes and Alaska Native Villages (for two quarantine homes)	\$899,890	Approved, July 2020, largely completed.
HUD-ICDBG-Imminent Threat	Extension of power grid to the expanded Akiak Subdivision, pioneer road development and other subdivision needs.	\$450,000	Approved August 2021
ANTHC	Sanitation improvements for the new housing subdivision.	\$1,350,000	Project AN-20-T93. Largely completed.
Denali Commission	Road improvements to support the expansion of the Akiak Subdivision & heavy equipment purchases.	\$250,000	Approved June 2022.
Association of Village Council Presidents - Regional Housing Authority	Six new homes to be constructed in 2022/23 in the expanded Akiak Subdivision.	unknown	Started in 2022 by AVCP-RHA

**Estimated Total HUD Funded Amount:** \$450,000 for the HUD-IT grant, \$800,000 for the HUD-ICDBG grant, and \$899,890 for the HUD-ICDBG-CARES grant for a total of \$2,149,890. Unknown is how much HUD funding the housing authority has for the development of the six new houses.



**Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$10M to \$12M**

**Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities**

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

<b>Compliance Factors:</b> Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
<b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6</b>		
<b>Airport Hazards</b> 24 CFR Part 51 Subpart D	No	Over 2000 feet from the existing airport.
<b>Coastal Barrier Resources</b> Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	No	Alaska is not one of the States that are part of the Act.
<b>Flood Insurance</b> Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	No	Akiak does not participate in the National Flood Insurance Program (NFIP). From the Federal Emergency Management Administration website, for Akiak, Alaska: <i>“FEMA has not completed a study to determine flood hazard for the selected location; therefore, a flood map has not been published at this time.”</i> Consequently, Akiak is not in a Special Flood Hazard Area as identified by FEMA.
<b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 &amp; 58.5</b>		

<p><b>Clean Air</b> Clean Air Act, as amended, particularly section 176(c) &amp; (d); 40 CFR Parts 6, 51, 93</p>	<p>No</p>	<p>Consultation with Mr. Adeyemi Alimi (Yemi) State of Alaska, Department of Environmental Conservation, Air Quality Division. June 4, 2020. Akiak is not in an attainment or maintenance area.</p>
<p><b>Coastal Zone Management</b> Coastal Zone Management Act, sections 307(c) &amp; (d)</p>	<p>No</p>	<p>Alaska does not participate in this Act.</p>
<p><b>Contamination and Toxic Substances</b> 24 CFR Part 50.3(i) &amp; 58.5(i)(2)</p>	<p>No</p>	<p>No issues associated with short term response tasks.</p>
<p><b>Endangered Species</b> Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>No</p>	<p>From the US Fish and Wildlife website it reports that there are no migratory birds of conservation concern or endangered species in Akiak. This was confirmed via phone call with Douglass Cooper on June 4, 2020.</p>
<p><b>Explosive and Flammable Hazards</b> 24 CFR Part 51 Subpart C</p>	<p>No</p>	<p>No issues associated with short term response tasks.</p>
<p><b>Farmlands Protection</b> Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</p>	<p>No</p>	<p>There are no farms or farmland in Akiak.</p>
<p><b>Floodplain Management</b> Executive Order 11988, particularly section 2(a); 24 CFR Part 55</p>	<p>No</p>	<p>No issues associated with short term response tasks.</p>

<p><b>Historic Preservation</b> National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>	<p>No</p>	<p>See NRCS 9/26/2019 letter to Alaska State Historic Preservation Office that confirms there are no known historic sites in Akiak (in the Broad Environmental Assessment).</p>
<p><b>Noise Abatement and Control</b> Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B</p>	<p>No</p>	<p>Akiak is not within 1000 feet of a major roadway, 3,000 feet of a railroad, or 15 miles of a military or FAA-regulated civil airfield.</p>
<p><b>Sole Source Aquifers</b> Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149</p>	<p>No</p>	<p>Akiak is not over a sole source aquifer.</p>
<p><b>Wetlands Protection</b> Executive Order 11990, particularly sections 2 and 5</p>	<p>No</p>	<p>No issues associated with short term response tasks.</p>
<p><b>Wild and Scenic Rivers</b> Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p>	<p>No</p>	<p>The Kuskokwim River is not listed as a Wild and Scenic River.</p>
<p><b>ENVIRONMENTAL JUSTICE</b></p>		
<p><b>Environmental Justice</b> Executive Order 12898</p>	<p>No</p>	<p>Most of the residents of Akiak are low-income Alaska Natives. All the homeowners facing relocation are Alaska Natives, and they are being relocated due to natural events as opposed to community project needs.</p>

**Environmental Assessment Factors** [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted.

Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

**Impact Codes:** Use an impact code from the following list to make the determination of impact for each factor.

- (1)** Minor beneficial impact
- (2)** No impact anticipated
- (3)** Minor Adverse Impact – May require mitigation
- (4)** Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>LAND DEVELOPMENT</b>		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	3	Development of a borrow site northwest of the existing landfill will avoid a potential environmental impact of riverine erosion at the existing soil borrow site, which in turn can threaten the Akiak airport.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	3	The soils in Akiak are generally silty sands which do not offer much structural strength against erosion. Runoff must be closely managed.
Hazards and Nuisances including Site Safety and Noise	3	As with all construction projects, the tribe must be mindful of site safety for residents and operating heavy equipment.
Energy Consumption	3	Demand for electrical power will increase with the development of new housing. The Tribe rebuilt the City power plant in 2021 to address the additional energy demand and also to resolve serious operational issues with damaged generating and radiator cooling equipment.
<b>SOCIOECONOMIC</b>		
Employment and Income Patterns	1	Construction projects will result in short term jobs in the community.

Demographic Character Changes, Displacement	3	Development of Akiak in a westerly pattern will protect homes and other structures from the migrating river. However, homeowners that once enjoyed ready access to the river for marine transport and subsistence activities will now find they have a farther distance to travel from their homes to their boats.
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<b>COMMUNITY FACILITIES AND SERVICES</b>		
Educational and Cultural Facilities	2	No issues. Housing is the focus.
Commercial Facilities	2	No issues. Housing is the focus.
Health Care and Social Services	2	No issues. Housing is the focus.
Solid Waste Disposal / Recycling	3	The existing landfill is located near newly developed housing. It should be closed, and a new solid waste site developed further away from the new and relocated housing.
Waste Water / Sanitary Sewers	3	CRW technical design memo (May 13, 2022) identified that the existing sewage system can handle the sewage flows generated from the new and relocated homes. That being said the six new housing authority homes may be completed before funding is identified for connecting the homes to new sewer mains and a new lift station and force main.
Water Supply	3	Same as “Waste Water / Sanitary Sewers”
Public Safety - Police, Fire and Emergency Medical	2	No issues. Housing is the focus.
Parks, Open Space and Recreation	2	No issues.
Transportation and Accessibility	3	While moving houses and hauling soil fill there may be impact to local transportation patterns.

<b>NATURAL FEATURES</b>		
Unique Natural Features, Water Resources	2	No issues
Vegetation, Wildlife	2	No issues
Other Factors	2	

**List of Permits Obtained:**

Anticipated:

1. Permit to Construct from A-DEC for Water and Sewer Main Improvements - beyond the ANTHC funding improvements.
2. Storm Water Pollution Prevention Plan from A-DEC for future housing subdivision improvements and development of a new soil borrow site.

**Cumulative Impact Analysis** [24 CFR 58.32]: New Housing Subdivision Improvements are a subset of the larger Akiak Home Relocation and Managed Retreat Project and the cumulative impact analysis for the full project is discussed in the Broad Environmental Assessment document.

**Alternatives** [24 CFR 58.40(e); 40 CFR 1508.9]: Four alternatives for an expanded housing subdivision were explored in the June 2020 Site Specific Environmental Assessment - New Housing Subdivision Improvements and the Tribe selected Site #1, which is west of the village and furthest away from Kuskokwim River and offers the community the safest land for development.

As for a new borrow site, two existing borrow sites could be used for the subdivision expansion, however they both are further away from the subdivision improvements. This will result in an increase in construction costs due to longer truck cycle times and also will exposes community residents to a high volume of heavy equipment traffic. The Tribe has concluded that development of new borrow sites near the new housing subdivision expansion best serves the community.

**No Action Alternative** [24 CFR 58.40(e)]:

Akiak is already facing housing shortages and the no action alternative will lead to greater overcrowding. Without relocating threatened homes near the river will result in the river claiming the homes and also increasing overcrowding.

**Summary of Findings and Conclusions:**

1. Since the June 2020 Site Specific Environmental Assessment - New Housing Subdivision Improvements, additional project information has been gathered and is reported and/or cited in this Addendum No. 1.
2. The Tribe has concluded that for managing project construction costs and to limit exposure of residents to dump trucks hauling fill to the housing subdivision expansion it is best to develop a new soil borrow site northwest of the existing landfill.

**Mitigation Measures and Conditions [40 CFR 1505.2(c)]**

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

<b>Law, Authority, or Factor</b>	<b>Mitigation Measure</b>
Operating Heavy Equipment and moving homes on the roads	Construction crews will ensure residents are not nearby while operating heavy equipment, and the community will be informed when homes are to be relocated on the community roads.
Temporary Housing	Relocation of homes will be carried out in a sequential manner that will include moving the family out, housing them in temporary housing, relocate the house, and connect to the power grid and sanitation systems. At that point the homeowner will relocate into their relocated home and then the next house will be relocated.

**Determination:**

**Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]

The project will not result in a significant impact on the quality of the human environment.

Preparer Signature: \_\_\_\_\_

Name/Title/Organization: Joel Neimeyer, P.E.  
Tribal Consultant for Disaster Resilience Projects

Date: \_\_\_\_\_

8/15/22

Certifying Officer Signature: \_\_\_\_\_

Name/Title: Michael P. Williams, Sr.  
Akiak Tribal Chief

Date: \_\_\_\_\_

8/16/22

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).



## **Appendices**

Addendum No. 1 to the Site Specific Environmental Assessment - New Housing  
Subdivision Improvements  
Akiak Home Relocation and Managed Retreat Project

- Appendix #1: Wetlands and Uplands
- Appendix #2: Borrow Sites
- Appendix #3: ANTHC Project AN20-T93 Site Layout
- Appendix #4: 30-lot subdivision with sanitation layout
- Appendix #5: Location for two homes to be relocated in 2022



**Figure 2.**  
Wetlands and Waters of the Akiak Infrastructure Project Wetlands Study Area, Alaska, 2021

map prepared by:  
ABR, Inc. — Environmental Research & Services  
22 September 2021  
Fig2\_Akiak\_Wetlands\_21282.mxd

**Legend**

- Wetland
- Upland Map
- Verification Plot
- Wetland Determination Plot

**Uplands**

- 1,1 Upland
- Us Upland (ft)

National Wetland Inventory (NWI) nomenclature based on FG02 2013.

**Waters**

- PUBH Palustrine Permanently Flooded Unconsolidated Bottom
- PEM1F Palustrine Semi-permanently Flooded Persistent Emergent
- PEM1E Palustrine Seasonally Flooded-Saturated Persistent Emergent
- PSS1E Palustrine Seasonally Flooded-Saturated Broad-leaved Deciduous Scrub-Shrub
- PEM1C Palustrine Seasonally Flooded Persistent Emergent
- PSS1B Palustrine Seasonally Saturated Broad-leaved Deciduous Scrub-Shrub

Scale: 0 50 100 150 200 250 300 Meters / 0 20 50 75 100 Feet

## Appendix #1: Wetlands and Uplands





Undeveloped  
Borrow Site

Proposed  
Borrow Site  
Housing Subdivision  
Development

Developed  
Borrow Site  
Concerns about  
erosion and proximity  
to the Kuskokwim River

**Appendix #2: Borrow Sites**







Division of Environmental  
Health and Engineering  
Anchorage, Alaska 99508  
(907) 259-3600

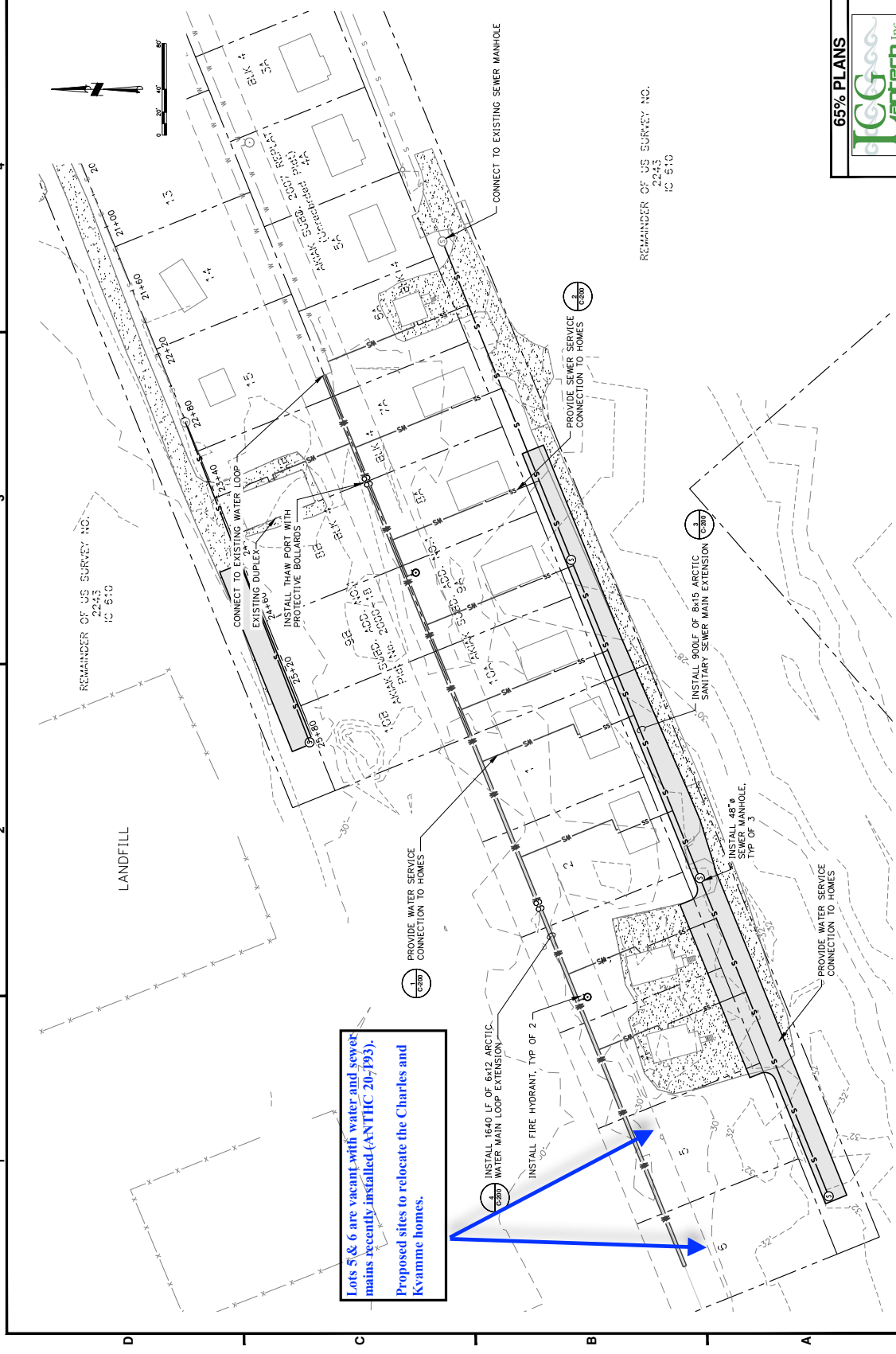
THIS DRAWING IS TO BE USED ONLY AS SHOWN. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. SCALE: AS SHOWN.

AKIAK, AK  
WATER AND SEWER MAIN  
EXTENSION  
65% PLAN SET

MARK	DATE	DESCRIPTION	INIT

PLAN SET: \_\_\_\_\_  
PROJECT NO.: 22-43  
PROJECT ENG.: BRC  
DRAWING ENG.: \_\_\_\_\_  
DRAWN BY: CS  
SHEET TITLE: \_\_\_\_\_

SITE PLAN  
C-101  
SHEET 2 OF 9  
5 OF 12 TOTAL SHEETS



NOTE: DRAWINGS SCALES ARE ACCURATE ON 22' x 34' SHEET SIZE

**Lots 5 & 6 are vacant with water and sewer mains recently installed (ANTHC 20-193). Proposed sites to relocate the Charles and Kwamme homes.**

**Appendix #5: Location for two homes to be relocated in 2022**