# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

#### **SECTION I: BACKGROUND INFORMATION**

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): August 14, 2017

#### B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Alaska District, POA-2017-359

### C. PROJECT LOCATION AND BACKGROUND INFORMATION: State: Alaska Borough: Matanuska-Susitna City: Palmer Center coordinates of site (lat/long in degree decimal format): Lat. 61.6945 ° N., Long. 149.2693 °W. Universal Transverse Mercator: WGS 84 Name of nearest waterbody: Little Susitna Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Little Susitna River Name of watershed or Hydrologic Unit Code (HUC): HUC 10: 1902050512 ⊠ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form D. REVIEW PERFORMED FOR SITE EVALUATION: □Office (Desk) Determination. Date: ⊠Field Determination. Date(s): August 10, 2017 **SECTION II: SUMMARY OF FINDINGS** A. RHA SECTION 10 DETERMINATION OF JURISDICTION. There are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. $\square$ Waters subject to the ebb and flow of the tide. ☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: B. CWA SECTION 404 DETERMINATION OF JURISDICTION. There are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. 1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area: ☐TNWs, including territorial seas ☐ Wetlands adjacent to TNWs □ Relatively permanent waters (RPWs) that flow directly or indirectly into TNWs □Non-RPWs that flow directly or indirectly into TNWs ⊠Wetlands directly abutting RPWs that flow directly or indirectly into TNWs ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs

#### b. Identify (estimate) size of waters of the U.S. in the review area:

□ Isolated (interstate or intrastate) waters, including isolated wetlands

Non-wetland waters:

☐ Impoundments of jurisdictional waters

Wetlands: 0.06 acres.

c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual

Elevation of established OHWM:

#### 2. Non-regulated waters/wetlands:

□Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not
jurisdictional.
Explain:

#### **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

#### 1. TNW

Identify TNW:

Summarize rationale supporting determination:

#### 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

#### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS:

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

#### 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

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Project water Project water Project water	s are river miles from s are river miles from s are aerial (straight) s are aerial (straight) s cross or serve as sta	RPW. miles from TNW. miles from RPW.	in:	
	Identify flow route to TNW: Tributary stream order, if known:			
	ntary Characteristics:  ☐ Natural ☐ Artificial (man-	made). Explain: an-altered). Explair	1:	
Averag Averag	operties with respect te width: feet te depth: feet te side slopes: Choose			
Primary tribu □ Silts □ Cobbles □ Bedrock □ Other. Exp	tary substrate compos  ☐ Sands  ☐ Gravel  ☐ Vegetation. Ty lain:	☐Concrete ☐Muck		
Presence of ro Tributary geo	un/riffle/pool complex	xes. Explain:	ghing banks]. Explain:	
Describ Other informa Surface flow Characteristic Subsurface fl	rage number of flow e be flow regime: ation on duration and is:	volume:	/year:	
	and banks VM:	eter of soil wn, bent, or absent r washed away	☐ the presence of litter and debris ☐ destruction of terrestrial vegetation ☐ the presence of wrack line ☐ sediment sorting ☐ scour ☐ multiple observed or predicted flow events ☐ abrupt change in plant community	

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

	☐ High Tide Line indicated by:	☐ Mean High Water Mark indicated by:
	$\Box$ oil or scum line along shore objects	□survey to available datum;
	☐ fine shell or debris deposits (foreshore)	□physical markings;
	□physical markings/characteristics	□vegetation lines/changes in vegetation types.
	□tidal gauges	
	□other (list):	
	(iii) Chemical Characteristics:	
	Characterize tributary (e.g., water color is clear, discolore	d. oily film: water quality: general watershed
	characteristics, etc.). Explain:	a, ony min, water quanty, general watershed
	Identify specific pollutants, if known:	
	(iv) Biological Characteristics. Channel supports:	
	Riparian corridor. Characteristics (type, average width	h):
	☐Wetland fringe. Characteristics:	,
	☐ Habitat for:	
	☐ Federally Listed species. Explain findings:	
	☐ Fish/spawn areas. Explain findings:	C' 1'
	Other environmentally-sensitive species. Explain	i findings:
	☐ Aquatic/wildlife diversity. Explain findings:	
2.	Characteristics of wetlands adjacent to non-TNW that flo	w directly or indirectly into TNW
	(i) Physical Characteristics:	
	(a) General Wetland Characteristics:	
	Properties:	
	Wetland size: acres	
	Wetland type. Explain:	
	Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Ex	ralain.
	Troject wettailus cross of serve as state boundaries. Ex	piani.
	(b) General Flow Relationship with Non-TNW:	
	Flow is: Choose an item. Explain:	
	Surface flow is:	
	Characteristics:	
	Subsurface flow: Explain findings:	
	$\Box$ Dye (or other) test performed:	
	(c) Wetland Adjacency Determination with Non-TNW:	
	☐Directly abutting	
	☐Not directly abutting	
	☐ Discrete wetland hydrologic connection. Explain	1:
	☐ Ecological connection. Explain:	
	☐ Separated by berm/barrier. Explain:	
	(d) Proximity (Relationship) to TNW	
	Project wetlands are river miles from TNW.	
	Project waters are aerial (straight) miles from TNW.	
	Flow is from:	
	Estimate approximate location of wetland as within th	e. floodplain.
	(ii) Chemical Characteristics:	
	Characterize wetland system (e.g., water color is clear, bro	own, oil film on surface; water quality; general watershed
	characteristics; etc.). Explain:	, , , , , , , , , , , , , , , , , , ,

Identify specific pollutants, if known:

(iii) Biological Character	istics. Wetland suppor	ts:	
☐Riparian buffer. Cha	racteristics (type, averag	ge width):	
□Vegetation type/perc	ent cover. Explain:		
☐ Habitat for:			
☐Federally Liste	ed species. Explain findi	ngs:	
□Fish/spawn are	eas. Explain findings:		
☐ Other environ	mentally-sensitive specie	s. Explain findings:	
☐ Aquatic/wildli	fe diversity. Explain find	dings:	
	n total are being consider	e analysis: red in the cumulative analysis.	
For each wetland, specif	y the following:		
Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
Y/N		Y/N	

Summarize overall biological, chemical and physical functions being performed:

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the Rapanos Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:

- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

#### D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:
	☐TNWs: linear feet width (ft), Or, acres.
	☐Wetlands adjacent to TNWs: acres.
2.	RPWs that flow directly or indirectly into TNWs.  Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
	☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:
	Provide estimates for jurisdictional waters in the review area:
	☐ Tributary waters: linear feet width (ft).
	☐ Other non-wetland waters: acres.  Identify type(s) of waters:
3.	Non-RPWs that flow directly or indirectly into TNWs.
	□Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area:  ☐ Tributary waters: linear feet width (ft).
	☐ Other non-wetland waters: acres.  Identify type(s) of waters:
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.  ⊠Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
	☐Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Provide acreage estimates for jurisdictional wetlands in the review area: 0.06-acre.
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

□Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.	
Provide estimates for jurisdictional wetlands in the review area: acres.	
7. Impoundments of jurisdictional waters.  As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.  □ Demonstrate that impoundment was created from "waters of the U.S.," or	
□Demonstrate that water meets the criteria for one of the categories presented above (1-6), or	
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).	
E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:	
□ which are or could be used by interstate or foreign travelers for recreational or other purposes.	
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.	
which are or could be used for industrial purposes by industries in interstate commerce.	
☐ Interstate isolated waters. Explain:	
□Other factors. Explain:	
Identify water body and summarize rationale supporting determination:	
Provide estimates for jurisdictional waters in the review area:	
☐ Tributary waters: linear feet width (ft).	
☐ Other non-wetland waters: acres.	
Identify type(s) of waters:	
□Wetlands: acres.	
F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:	
☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps o Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.	f
□ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. □ Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).	
□ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:	
□Other: (explain, if not covered above):	
Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using besprofessional judgment:	st
□Non-wetland waters (i.e., rivers, streams): linear feet width (ft).	
□Lakes/ponds: acres.	
□Other non-wetland waters: acres. List type of aquatic resource:	
□Wetlands: acres.	
Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction:	
□Non-wetland waters (i.e., rivers, streams): linear feet width (ft).	
□ Lakes/ponds: acres.	
□ Other non-wetland waters: acres. List type of aquatic resource:	
□Wetlands: acres.	

#### **SECTION IV: DATA SOURCES.**

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and,
where checked and requested, appropriately reference sources below):
☐ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
☐Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☑Data sheets prepared by the Corps: 4 Data Sheets completed on August 10, 2017
□Corps navigable waters' study:
⊠U.S. Geological Survey Hydrologic Atlas:
⊠USGS NHD data.
⊠USGS 8 and 12 digit HUC maps.
⊠ Alaska District's Approved List of Navigable Waters
☐U.S. Geological Survey map(s). Cite scale & quad name:
National wetlands inventory map(s). Cite name: PFO4B, Accessed August 9, 2017
⊠State/Local wetland inventory map(s): Cook Inlet Wetland Mapper: Discharge Slope, Accessed August 9, 2017
□FEMA/FIRM maps:
□ 100-year Floodplain Elevation is:
□Photographs: ⊠Aerial (Name & Date): Digital Globe September 13, 2010
or ⊠Other (Name & Date): Bing Aerial Images Dated: 2017
⊠Previous determination(s). File no. and date of response letter: POA-2006-834, Dated January 9, 2007
☐ Applicable/supporting case law:
☐ Applicable/supporting scientific literature:
☐ Other information (please specify):
ADDITIONAL COMMITTING TO CUIDDODE ID THE STATE OF THE STA

**B. ADDITIONAL COMMENTS TO SUPPORT JD:** The wetland complex connects directly to Alaska Department of Fish and Game anadromous unnamed Creek 247-41-10100-2349-3003. Creek 247-41-10100-2349-3003 connects to Creek 247-41-10100-2349, which flows into the Little Susitna River. Little Susitna River becomes a TNW down river from Creek 247-41-10100-2349 at Mile Point 84.

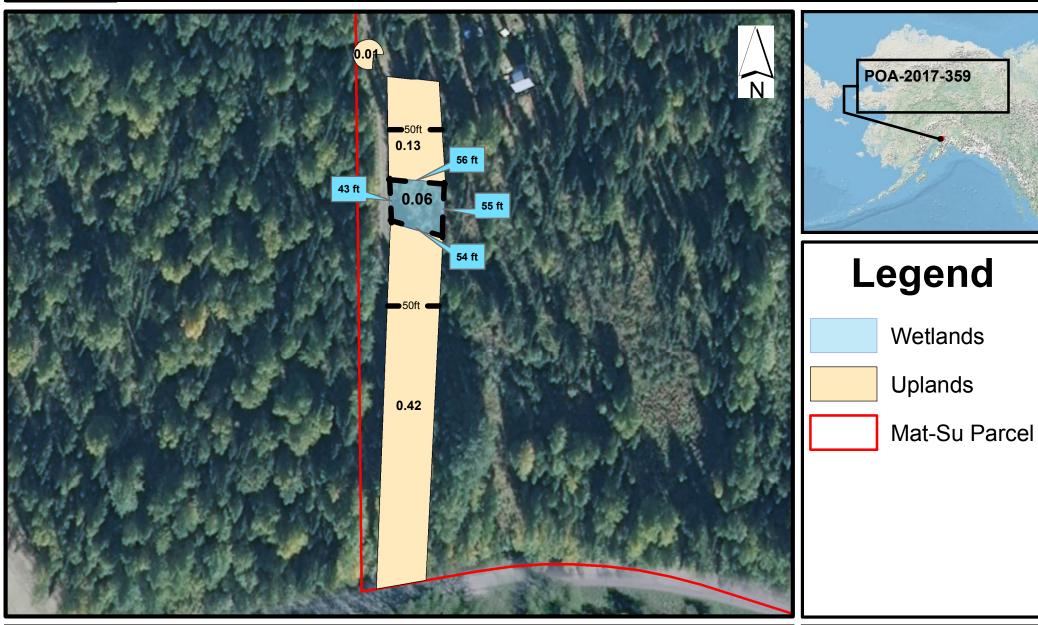
POA-2006-834 is the property directly North and East of the delineated area and shares the same wetland complex.

This jurisdictional determination is limited to the areas within 50ft of the current driveway as identified on attached map (Figure 1, Dated August 14, 2017).



# POA-2017-359 Wetland Delineation





## POA-2017-359, Green Diamond Properties, LLC, Approved Jurisdictional Determination

Notes: The area is limited to within 50 feet east of the current driveway and a 15 foot area on the northwest corner of the current driveway heading northwest. The wetland area includes 1 culvert running under the current driveway maintaining hydrologic flow.

Date: August 14, 2017

Figure: 1 of 1