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

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: MOBILE DISTRICT, Virginia Wrecking Company, 8.83-care Parcel, SAM-2019-00879-LML

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: ALCounty/parish/borough: BaldwinCity: StapletonCenter coordinates of site (lat/long in degree decimal format):Lat. 30.722480° N, Long. -87.786914° W.
Universal Transverse Mercator:

Name of nearest waterbody: Fish River

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Fish River Name of watershed or Hydrologic Unit Code (HUC):

- 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 (CHECK ALL THAT APPLY):

- Office (Desk) Determination. Date: 11/7/2019
- Field Determination. Date(s): 10/08/2019; 11/14/2019

<u>SECTION II: SUMMARY OF FINDINGS</u> 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. [Required]

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. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply): ¹

- TNWs, including territorial seas
 Wetlands adjacent to TNWs
- Wetlands adjacent to TNWs
 Relatively permanent waters² (
 - Relatively permanent waters² (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
 - Impoundments of jurisdictional waters
 - Isolated (interstate or intrastate) waters, including isolated wetlands
- b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or acres. Wetlands: 2.86 acres.
- c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):
- Non-regulated waters/wetlands (check if applicable):³
 Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

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 WEILANDS (IF ANY):

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 waterbody⁴ 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

(i) General Area Conditions: Watershed size: 42,000 acres Drainage area: 152 square miles Average annual rainfall: 68 inches Average annual snowfall: 0 inches

(ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☑ Tributary flows directly into TNW.
 □ Tributary flows through **Pick List**tributaries before entering TNW.

Project waters are
Project waters are15-20
river miles from TNW.Project waters are
Project waters are1 (or less)
iver miles from RPW.Project waters are
Project waters are
roject waters cross or serve as state boundaries. Explain:

Identify flow route to TNW⁵: RPW is the upper portion of the TNW (Upper Fish River and Lower Fish River). Tributary stream order, if known: The RPW is a second order stream at this location.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b)	General Tributary Characteristics (check all that app	oly):	
	Tributary is: 🛛 Natural		
	Artificial (man-made). Expl		
	☐ Manipulated (man-altered).	Expla	
	Tributary properties with respect to top of bank (es Average width: 30 feet Average depth: 5 feet Average side slopes: 2:1.	stimate	e):
	Primary tributary substrate composition (check all t Silts Sands Cobbles Gravel Bedrock Vegetation. Type Other. Explain: .		Concrete
adjacent to the	Tributary condition/stability [e.g., highly eroding, sl e subject wetland appears to have moderate erosion w Presence of run/riffle/pool complexes. Explain: Un Tributary geometry: Meandering Tributary gradient (approximate average slope): Un	ith fai known	
(c)	<u>Flow:</u> Tributary provides for: Seasonal flow Estimate average number of flow events in review a Describe flow regime: Flows under nromal rain Other information on duration and volume: Uknowr	nfall co	
	Surface flow is: Discrete and confined Characteri	stics:	
	Subsurface flow: Unknown Explain findings: Dye (or other) test performed:		
	Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the ban changes in the character of soil shelving vegetation matted down, bent, or absen leaf litter disturbed or washed away sediment deposition water staining other (list): Discontinuous OHWM. ⁷ Explain:		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 determ High Tide Line indicated by: oil or scum line along shore objects fine shell or debris deposits (foreshore) physical markings/characteristics tidal gauges other (list):	Mea	teral extent of CWA jurisdiction (check all that apply): In High Water Mark indicated by: survey to available datum; physical markings; vegetation lines/changes in vegetation types.
(iii) Che	mical Characteristics:	1 .1	M1 / 1/ 1 / 1 / 1 / · · · ·

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Water color is often brown (turbid) due to sedimentation.

Identify specific pollutants, if known: Land use in the immediate drainage area is mainly argicultural. Therefore, pollutants such as pesticides and some sedimentation are likely to occur.

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. ⁷Ibid.

(iv) **<u>Biological Characteristics</u>**. Channel supports (check all that apply):

Riparian corridor. Characteristics (type, average width): To the east, there is a \sim 1,200 foot wide riparian corridor for connectivity.

- Wetland fringe. Characteristics:
- Habitat for:
 - Federally Listed species. Explain findings:
 - ☐ Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: The tributary conveys organic carbon and nutrients from decaying riparian plant material downstream to the resident amphibians and aquatic invertebrates, and provides areas for foraging and shelter from predators for fishes and macrovertebrates as well as some terrestrial species. Having seasonal flow, this tributary also provides a seasonally consistent water source for drinking and other life needs for terrestrial species in surrounding riparian corridor and undeveloped forest areas.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

- (a) General Wetland Characteristics:
 - Properties:

Wetland size:2.86 acres Wetland type. Explain: Bottomland Hardwood.

Wetland quality. Explain: Medium-High Quality.

Project wetlands cross or serve as state boundaries. Explain: NA.

(b) General Flow Relationship with Non-TNW:

Flow is: Intermittent flowExplain: Flow appears to occur during certain rain events.

Surface flow is: Overland sheetflow

Characteristics: Flow from wetlands reaches a surface ditch/culvert system that runs downslope to the Fish River at a point in which the Fish River is a RPW.

Subsurface flow: **Unknown** Explain findings: Dye (or other) test performed:

- (c) <u>Wetland Adjacency Determination with Non-TNW:</u>
 - Directly abutting
 - Not directly abutting

Discrete wetland hydrologic connection. Explain: Wetland is connected to Fish River (RPW) via surface

ditch/culverts.

Ecological connection. Explain:
 Separated by berm/barrier. Explain:

(d) <u>Proximity (Relationship) to TNW</u>

Project wetlands are **15-20** river miles from TNW. Project waters are **10-15** aerial (straight) miles from TNW. Flow is from: **Wetland to navigable waters**

Estimate approximate location of wetland as within the 500-year or greater loodplain.

Note: Floodplain year is an estimate. Wetland is located within Zone X, Area of Minimal Flood Hazard.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Wetland is a bottomland hardwood forest that is frequently inundated over 12 inches or more. It contains natural species and is a refuge for wildlife.

Identify specific pollutants, if known: Unknown.

(iii)Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain: Forested system with ~75 percent cover.
- Habitat for:
 - Federally Listed species. Explain findings:
 - ☐ Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: Wetlands provide resting, nesting, refuge from predators, foraging habitat for birds, small amphibians, reptiles, and small to medium sized mammals that utilize the area.

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: 2

Approximately (15.36) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N) Subject Wetland: N Size (in acres) 2.86 Directly abuts? (Y/N) Nearby Wetland: Y Size (in acres) ~12.5

Summarize overall biological, chemical and physical functions being performed: Floodplain services, filtration of containinants, water rentention, habiatat for wildlife. In addition, the drainage area has agricultural impacts and sedimentation issues, and the tributary would have the capacity to carry those pollutants to the TNW. The subject wetland would serve to absorb/filter those pollutants and thus serve to protect the chemical integrity of the TNW.

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 notlimited 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. be tween a tributary and its adjacent wetland or be tween 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 Guide book. 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 we tlands, 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: The 2.86 acre subject wetland is adjacent to the RPW (Upper Fish River), which is the same river reach as the TNW, just farther upstream. The subject wetland is connected to the RPW via a surface hydrologic connection in the form of a ~1,800 ft. downslope ditch/culvert system leading directly into the RPW. The subject wetland has a significant nexus to the downstream TNW by providing: 1) a groundwater discharge source that contributes recharge of the UT and all its connected downstream and other downstream waterbodies; 2) capacity to receive, retain and treat rainfall run-off, and provides removal of sediment, agricultural nutrients, pesticides, herbicides, animal wastes, etc. that may be picked up in stormwater run-off from undeveloped lands and roadways prior to entering the downstream tributary system and TNW; 3) detritus, nutrients, and organic carbon conveyance to downstream waters used by downstream aquatic food webs; and, 4) habitat for amphibians, reptiles, birds, and small to medium mammals that reside permanently in or periodically utilize the stream and wetland system access to sources of water, resting, nesting, refuge, and foraging habitat.

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WEILANDS ARE (CHECK ALL THAT APPLY):

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: The RPW (Fish River) is shown on the NHD and USGS topographic maps as a blue-line stream, and it is coded as R2UBH (Lower Perennial) in the National Wetlands Inventory.
	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .
3.	Non-RPWs ⁸ 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 (check all that apply): 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 year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	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: acres.
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 jurisidictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: 2.86 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. ⁹

- Impoundments of jurisdictional waters.⁹

 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).

 ⁸See Footnote#3.
 ⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

E.	 ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WEILANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECKALL THAT APPLY):¹⁰ 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 (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: . Wetlands: acres.
F.	 NON-JURISDICTIONAL WATERS, INCLUDING WEILANDS (CHECK ALL THAT APPLY): If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. 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 <u>sole</u> 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 best professional judgment (check all that apply): 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 (check all that apply): 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.
SE	CTION IV: DATA SOURCES.
А.	 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: Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS 8 and 12 digit HUC maps

USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name:1:24,000; Stapleton, Ala.

 U.S. Geological Survey map(s). Cite scale & quad name:1:24,000; Stapleton, Ala.
 USDA Natural Resources Conservation Service Soil Survey. Citation:Web Soil Survey, National Cooperative Soil Survey Version 10 Sept. 17, 2018, Baldwin County, Alabama. Available online at http://websoilsurvey.nrcs.usda.gov/.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

X National wetlands inventory map(s). Cite name:NWI data viewer, last modified Oct 15, 2018. Available online at: https://www.fws.gov/wetlands/Data/Mapper.html.

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State/Local wetlands/Data/Mapper.html.
 State/Local wetland inventory map(s):
 FEMA/FIRM maps:01003C0531M, effective 4/19/2019.
 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
 Photographs: A crial (Name & Date):2019 aerial photos obtained from Google Earth. or A Other (Name & Date): Site Photos from 11/14/2019; recorded in administrative record.

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Previous determination(s). File no. and date of response letter:

Applicable/supporting case law:

Applicable/supporting scientific literature:

Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: