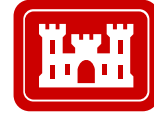




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Regulatory Program



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

This form should be completed by following the instructions provided in the Interim Approved Jurisdictional Determination Form User Manual.

SECTION I: BACKGROUND INFORMATION

A. COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (AJD): 04/11/2019

B. ORM NUMBER IN APPROPRIATE FORMAT (e.g., HQ-2015-00001-SMJ):

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Virginia County/parish/borough: Chesterfield City: N/A

Center coordinates of site (lat/long in degree decimal format): Lat. 37.401804, Long. -77.395577.

Map(s)/diagram(s) of review area (including map identifying single point of entry (SPOE) watershed and/or potential jurisdictional areas where applicable) is/are: attached in report/map titled

Other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with this action and are recorded on a different jurisdictional determination (JD) form. List JD form ID numbers (e.g., HQ-2015-00001-SMJ-1): NOA-2014-01862 .

D. REVIEW PERFORMED FOR SITE EVALUATION:

Office (Desk) Determination Only. Date:

Office (Desk) and Field Determination. Office/Desk Dates: 04/09/2019 Field Date(s): 07/31/2014, 08/04/2014.

SECTION II: DATA SOURCES

Check all that were used to aid in the determination and attach data/maps to this AJD form and/or references/citations in the administrative record, as appropriate.

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant. Title/Date: VIC; 4-4-19, HUC; 4-4-19, EIM; 4-4-19, Wetland Delineation Map; 4-1-19.

Data sheets prepared/submitted by or on behalf of the applicant/consultant.

Data sheets/delineation report are sufficient for purposes of AJD form. Title/Date: Field Data Sheets; 7-31-14, 8-4-14, 10-27-14, 12-10-14, 12-11-14.

Data sheets/delineation report are not sufficient for purposes of AJD form. Summarize rationale and include information on revised data sheets/delineation report that this AJD form has relied upon:

Revised Title/Date:

Data sheets prepared by the Corps. Title/Date:

Corps navigable waters study. Title/Date:

CorpsMap ORM map layers. Title/Date:

USGS Hydrologic Atlas. Title/Date:

USGS, NHD, or WBD data/maps. Title/Date: Figure 3: Environmental Inventory Map; 4-4-19.

USGS 8, 10 and/or 12 digit HUC maps. HUC number: 2080206.

USGS maps. Scale & quad name and date: Drewrys Bluff, 2016.

USDA NRCS Soil Survey. Citation: Figure 3: Environmental Inventory Map; 4-4-19.

USFWS National Wetlands Inventory maps. Citation: Figure 3: Environmental Inventory Map; 4-4-19.

State/Local wetland inventory maps. Citation:

FEMA/FIRM maps. Citation: FEMA/FIRM; 4-9-19.

Photographs: Aerial. Citation: . or Other. Citation: .

LiDAR data/maps. Citation:

Previous JDs. File no. and date of JD letter: NOA-2014-01862; Preliminary Jurisdictional Waters of the U.S. Delineation Package.

- Applicable/supporting case law:
- Applicable/supporting scientific literature:
- Other information (please specify):

SECTION III: SUMMARY OF FINDINGS

Complete ORM "Aquatic Resource Upload Sheet" or Export and Print the Aquatic Resource Screen from ORM for All Waters and Features, Regardless of Jurisdictional Status – Required

A. RIVERS AND HARBORS ACT (RHA) SECTION 10 DETERMINATION OF JURISDICTION:

"navigable waters of the U.S." within RHA jurisdiction (as defined by 33 CFR part 329) in the review area.

• Complete Table 1 - Required

NOTE: If the navigable water is not subject to the ebb and flow of the tide or included on the District's list of Section 10 navigable waters list, DO NOT USE THIS FORM TO MAKE THE DETERMINATION. The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Section 10 RHA navigability determination.

B. CLEAN WATER ACT (CWA) SECTION 404 DETERMINATION OF JURISDICTION: "waters of the U.S." within CWA jurisdiction (as defined by 33 CFR part 328.3) in the review area. **Check all that apply.**

(a)(1): All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide. (Traditional Navigable Waters (TNWs))

• Complete Table 1 - Required

This AJD includes a case-specific (a)(1) TNW (Section 404 navigable-in-fact) determination on a water that has not previously been designated as such. Documentation required for this case-specific (a)(1) TNW determination is attached.

(a)(2): All interstate waters, including interstate wetlands.

• Complete Table 2 - Required

(a)(3): The territorial seas.

• Complete Table 3 - Required

(a)(4): All impoundments of waters otherwise identified as waters of the U.S. under 33 CFR part 328.3.

• Complete Table 4 - Required

(a)(5): All tributaries, as defined in 33 CFR part 328.3, of waters identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

• Complete Table 5 - Required

(a)(6): All waters adjacent to a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3, including wetlands, ponds, lakes, oxbows, impoundments, and similar waters.

• Complete Table 6 - Required

Bordering/Contiguous.
Neighboring:

(c)(2)(i): All waters located within 100 feet of the ordinary high water mark (OHWM) of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3.

(c)(2)(ii): All waters located within the 100-year floodplain of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3 and not more than 1,500 feet of the OHWM of such water.

(c)(2)(iii): All waters located within 1,500 feet of the high tide line of a water identified in paragraphs (a)(1) or (a)(3) of 33 CFR part 328.3, and all waters within 1,500 feet of the OHWM of the Great Lakes.

(a)(7): All waters identified in 33 CFR 328.3(a)(7)(i)-(v) where they are determined, on a case-specific basis, to have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

• Complete Table 7 for the significant nexus determination. Attach a map delineating the SPOE watershed boundary with (a)(7) waters identified in the similarly situated analysis. - Required

Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

(a)(8): All waters located within the 100-year floodplain of a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3 not covered by (c)(2)(ii) above and all waters located within 4,000 feet of the high tide line or OHWM of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3 where they are determined on a case-specific basis to have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

• Complete Table 8 for the significant nexus determination. Attach a map delineating the SPOE watershed boundary with (a)(8) waters identified in the similarly situated analysis. - Required

Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

C. NON-WATERS OF THE U.S. FINDINGS:

Check all that apply.

- The review area is comprised entirely of dry land.
- Potential-(a)(7) Waters: Waters that DO NOT have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.
- **Complete Table 9 and attach a map delineating the SPOE watershed boundary with potential (a)(7) waters identified in the similarly situated analysis. - Required**
- Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.
- Potential-(a)(8) Waters: Waters that DO NOT have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.
- **Complete Table 9 and attach a map delineating the SPOE watershed boundary with potential (a)(8) waters identified in the similarly situated analysis. - Required**
- Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.
- Excluded Waters (Non-Waters of U.S.), even where they otherwise meet the terms of paragraphs (a)(4)-(a)(8):
- **Complete Table 10 - Required**
- (b)(1): Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the CWA.
- (b)(2): Prior converted cropland.
- (b)(3)(i): Ditches with ephemeral flow that are not a relocated tributary or excavated in a tributary.
- (b)(3)(ii): Ditches with intermittent flow that are not a relocated tributary, excavated in a tributary, or drain wetlands.
- (b)(3)(iii): Ditches that do not flow, either directly or through another water, into a water identified in paragraphs (a)(1)-(a)(3).
- (b)(4)(i): Artificially irrigated areas that would revert to dry land should application of water to that area cease.
- (b)(4)(ii): Artificial, constructed lakes and ponds created in dry land such as farm and stock watering ponds, irrigation ponds, settling basins, fields flooded for rice growing, log cleaning ponds, or cooling ponds.
- (b)(4)(iii): Artificial reflecting pools or swimming pools created in dry land.¹
- (b)(4)(iv): Small ornamental waters created in dry land.¹
- (b)(4)(v): Water-filled depressions created in dry land incidental to mining or construction activity, including pits excavated for obtaining fill, sand, or gravel that fill with water.
- (b)(4)(vi): Erosional features, including gullies, rills, and other ephemeral features that do not meet the definition of tributary, non-wetland swales, and lawfully constructed grassed waterways.¹
- (b)(4)(vii): Puddles.¹
- (b)(5): Groundwater, including groundwater drained through subsurface drainage systems.¹
- (b)(6): Stormwater control features constructed to convey, treat, or store stormwater that are created in dry land.¹
- (b)(7): Wastewater recycling structures created in dry land; detention and retention basins built for wastewater recycling; groundwater recharge basins; percolation ponds built for wastewater recycling; and water distributary structures built for wastewater recycling.
- Other non-jurisdictional waters/features within review area that do not meet the definitions in 33 CFR 328.3 of (a)(1)-(a)(8) waters and are not excluded waters identified in (b)(1)-(b)(7).
- **Complete Table 11 - Required.**

D. ADDITIONAL COMMENTS TO SUPPORT AJD: The Site was part of a former mining and construction operation. Activities related to this historical land use have created non-jurisdictional depressions created in dry land (b)(4)(v).

¹ In many cases these excluded features will not be specifically identified on the AJD form, unless specifically requested. Corps Districts may, in case-by-case instances, choose to identify some or all of these features within the review area.

Jurisdictional Waters of the U.S.

Default field entry is "N/A". Delete "N/A" and fill out all fields in the table where applicable for waters/features present in the review area.

Table 1. (a)(1) Traditional Navigable Waters

(a)(1) Waters Name	(a)(1) Criteria	Rationale to Support (a)(1) Designation Include High Tide Line or Ordinary High Water Mark indicators, when applicable.
L	The waterbody is subject to Section 9 or 10 of the Rivers and Harbors Act	The James River is assumed to be navigable and subject to Section 9 or 10 of the Rivers and Harbors Act, based on the USACE "Navigable Waters of the United States" publication: https://www.nao.usace.army.mil/Portals/31/docs/regulatory/guidance/section_10_determinations.pdf

Table 2. (a)(2) Interstate Waters

(a)(2) Waters Name	Rationale to Support (a)(2) Designation
N/A	N/A

Table 3. (a)(3) Territorial Seas

(a)(3) Waters Name	Rationale to Support (a)(3) Designation
N/A	N/A

Table 4. (a)(4) Impoundments

(a)(4) Waters Name	Rationale to Support (a)(4) Designation
N/A	N/A
N/A	N/A

Table 5. (a)(5) Tributaries

(a)(5) Waters Name	Flow Regime	(a)(1)-(a)(3) Water Name to which this (a)(5) Tributary Flows	Tributary Breaks	Rationale for (a)(5) Designation and Additional Discussion. Identify flowpath to (a)(1)-(a)(3) water or attach map identifying the flowpath; explain any breaks or flow through excluded/non-jurisdictional features, etc.
AA1	Perennial	James River	No	Flows into Tributary AA2, and ultimately into the James River (a)(1). Flowpath is shown on the attached Wetland Delineation Map.
AA2	Intermittent	James River	Yes	Flows into Tributary AD, and ultimately into the James River (a)(1). A natural break occurs in AA2 at a Water Resource B. Flowpath and breaks are shown on the attached Wetland Delineation Map.
AB	Ephemeral	James River	Yes	Flows into Tributary AD, and ultimately into the James River (a)(1). A break occurs in AB through a constructed culvert. The flowpath is shown on the attached Wetland Delineation Map.
AC	Intermittent	James River	No	Flows into Resource L, and ultimately into the James River (a)(1). A natural break occurs as Tributary flows into R1UB wetlands. Flowpath and break is shown on the attached Wetland Delineation Map.
AD	Perennial	James River	Yes	Flows into James River (a)(1) with two constructed culvert breaks along the flowpath. Flowpath and breaks shown on the attached Wetland Delineation Map.
Z	Perennial	James River	Yes	Flows into James River (a)(1) with one constructed culvert break along the flowpath.]The flowpath and break is shown on the attached Wetland Delineation Map.

Table 6. (a)(6) Adjacent Waters

(a)(6) Waters Name	(a)(1)-(a)(5) Water Name to which this Water is Adjacent	Rationale for (a)(6) Designation and Additional Discussion. Identify the type of water and how the limits of jurisdiction were established (e.g., wetland, 87 Manual/Regional Supplement); explain how the 100-year floodplain and/or the distance threshold was determined; whether this water extends beyond a threshold; explain if the water is part of a mosaic, etc.

A	AD; Tributary (a)(5)	Within 100-year floodplain surveyed limits. Adjacent and contiguous to AD; Tributary (a)(5). Tributary AD flows through PFO Water A. Surveyed floodplain limits shown on attached Wetland Delineation Map.
B	AD; Tributary (a)(5)	Within 100-year floodplain surveyed limits. Adjacent and contiguous to two Unnamed Tributaries (a)(5). Tributary AA2 flows north into POW Water B. The other Tributary, AD, flows through the northern boundary of POW Water B. Surveyed floodplain limits shown on attached Wetland Delineation Map.
C	AD; Tributary (a)(5)	Within 100-year floodplain surveyed limits. Adjacent and contiguous to Tributary AD; (a)(5). Tributary AD flows along the northern wetland boundary of PFO Water C. Surveyed floodplain limits shown on attached Wetland Delineation Map.
D	AD; Tributary (a)(5)	Within 100-year floodplain surveyed limits. Adjacent and contiguous to two Unnamed Tributaries (a)(5). One Unnamed Tributary flows along the eastern boundary of PFO Water D. The other Unnamed Tributary flows along the northern boundary of PFO Water D. Surveyed floodplain limits shown on attached Wetland Delineation Map.
E	Z; Tributary (a)(5)	Within 100-year floodplain surveyed limits. Adjacent and contiguous to Kingsland Creek (a)(5). Kingsland Creek flows along the southern wetland boundary of PFO Water E. Surveyed floodplain limits shown on attached Wetland Delineation Map.
F	AA1; Tributary (a)(5)	Within 100-year floodplain surveyed limits. Adjacent and contiguous to Tributary AA1; (a)(5). Tributary AA1 drains PFO Water F to the north. Surveyed floodplain limits shown on attached Wetland Delineation Map.
G	Z; Tributary (a)(5)	Within 100-year floodplain surveyed limits. Adjacent and contiguous to Kingsland Creek (a)(5). Kingsland Creek flows along the western wetland boundary of PFO Water G. Surveyed floodplain limits shown on attached Wetland Delineation Map.
H	Z; Tributary (a)(5)	Within 100-year floodplain surveyed limits. Adjacent and contiguous to Kingsland Creek (a)(5) and Tributary AD; (a)(5). Kingsland Creek flows along the eastern wetland boundary, and Tributary AD flows along the southern boundary of PFO Water H. Surveyed floodplain limits shown on attached Wetland Delineation Map.
I	Z; Tributary (a)(5)	Within 100-year floodplain surveyed limits. Adjacent and contiguous to Kingsland Creek (a)(5). Kingsland Creek flows along the northeastern wetland boundary of PFO Water I. Surveyed floodplain limits shown on attached Wetland Delineation Map.
J	Z; Tributary (a)(5)	Within 100-year floodplain surveyed limits. Adjacent and contiguous to Kingsland Creek (a)(5). Kingsland Creek flows along the southwestern wetland boundary of PFO Water J. Surveyed floodplain limits shown on attached Wetland Delineation Map.
K	Z; Tributary (a)(5)	Within 100-year floodplain surveyed limits. Adjacent and contiguous to Kingsland Creek (a)(5). Kingsland Creek flows along the northeastern wetland boundary of PFO Water K. Surveyed floodplain limits shown on attached Wetland Delineation Map.
R1	L; James River (a)(1)	Within 100-year floodplain surveyed limits and within 1,500 feet of OHWM of the James River (a)(1). Neighboring. Surveyed floodplain limits shown on attached Wetland Delineation Map.

R2	L; James River (a)(1)	Within 100-year floodplain surveyed limits and within 1,500 feet of OHWM of the James River (a)(1). Neighboring. Surveyed floodplain limits shown on attached Wetland Delineation Map.
S1	AC; Tributary (a)(5)	Within 100-year floodplain surveyed limits and adjacent and contiguous to Unnamed Tributary AC (a)(5). PEM Water S1 drains east into Unnamed Tributary. Surveyed floodplain limits shown on attached Wetland Delineation Map.
S2	L; James River (a)(1)	Within 100-year floodplain surveyed limits and within 1,500 feet of OHWM of the James River (a)(1). Neighboring. Surveyed floodplain limits shown on attached Wetland Delineation Map.
T	L; James River (a)(1)	Within 100-year floodplain surveyed limits and within 100 feet of the James River (a)(1) . Neighboring. Surveyed floodplain limits shown on attached Wetland Delineation Map.
U	L; James River (a)(1)	Within 100-year floodplain surveyed limits and within 100 feet of the James River (a)(1) . Neighboring. Surveyed floodplain limits shown on attached Wetland Delineation Map.
V	L; James River (a)(1)	Within 100-year floodplain surveyed limits and within 100 feet of the James River (a)(1) . Neighboring. Surveyed floodplain limits shown on attached Wetland Delineation Map.
W1	L; James River (a)(1)	Within 100-year floodplain surveyed limits and within 100 feet of the James River (a)(1) . Neighboring. Surveyed floodplain limits shown on attached Wetland Delineation Map.
X	L; James River (a)(1)	Within 100-year floodplain surveyed limits and within 1500 feet of the James River (a)(1) . Neighboring. Surveyed floodplain limits shown on attached Wetland Delineation Map.
Y	L; James River (a)(1)	Within 1500 feet of the High Tide Line (HTL) of the James River (a)(1). Outside of the 100-year floodplain surveyed limits.

Table 7. (a)(7) Waters

SPOE Name	(a)(7) Waters Name	(a)(1)-(a)(3) Water Name to which this Water has a Significant Nexus	Significant Nexus Determination Identify SPOE watershed; discuss whether any similarly situated waters were present and aggregated for SND; discuss data, provide analysis, and summarize how the waters have more than speculative or insubstantial effect on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water, etc.
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Table 8. (a)(8) Waters

SPOE Name	(a)(8) Waters Name	(a)(1)-(a)(3) Water Name to which this Water has a Significant Nexus	Significant Nexus Determination Identify SPOE watershed; explain how 100-yr floodplain and/or the distance threshold was determined; discuss whether waters were determined to be similarly situated to subject water and aggregated for SND; discuss data, provide analysis, and then summarize how the waters have more than speculative or insubstantial effect the on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water, etc.
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Non-Jurisdictional Waters

Default field entry is "N/A". Delete "N/A" and fill out all fields in the table where applicable for waters/features present in the review area.

Table 9. Non-Waters/No Significant Nexus

SPOE Name	Non-(a)(7)/(a)(8) Waters Name	(a)(1)-(a)(3) Water Name to which this Water DOES NOT have a Significant Nexus	Basis for Determination that the Functions DO NOT Contribute Significantly to the Chemical, Physical, or Biological Integrity of the (a)(1)-(a)(3) Water. Identify SPOE watershed; explain how 100-yr floodplain and/or the distance threshold was determined; discuss whether waters were determined to be similarly situated to the subject water; discuss data, provide analysis, and summarize how the waters did not have more than a speculative or insubstantial effect on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water.
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Table 10. Non-Waters/Excluded Waters and Features

Paragraph (b) Excluded Feature/Water Name	Rationale for Paragraph (b) Excluded Feature/Water and Additional Discussion.
M	(b)(4)(v) – Water filled depression in dry land created as a result of mining/construction activity and soil compaction.

N	(b)(4)(ii) – Artificial, constructed pond in historic construction, dry area.
O	(b)(4)(v) – Water filled depression in dry land created as a result of mining/construction activity and soil compaction.
P	(b)(4)(v) – Water filled depression in dry land created as a result of mining/construction activity and soil compaction.
Q	(b)(4)(v) – Water filled depression in dry land created as a result of mining/construction activity and soil compaction.

Table 11. Non-Waters/Other

Other Non-Waters of U.S. Feature/Water Name	Rationale for Non-Waters of U.S. Feature/Water and Additional Discussion.
N/A	N/A