

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): June 6, 2014

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: CENAB-OP-RPA-2012-02324-P23 (AMFIRE – E.M. Brown #1 Coal Operation).

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

The extent of the Corps' study area for this approved JD has been designated as the blue line depicting the limit of disturbance as shown on the site plan, entitled: "E.M. Brown #1 Operation SMP # Wetland Delineation Map – Site Plan", dated January 2011, last revised March 2014, prepared by Geotech Engineering Incorporated.

The operation area has not been abandoned and the reclamation has not been completed.

The existing microtopography within the study area is a result of previous surface coal mining disturbances approximately 40 years ago. The waters and wetlands within the study area are by-products of man-made actions upon uplands. Because of past earth disturbances, most of the study area was left without positive surface drainage with the only sources of hydrology being provided by surface storm water and ground seeps that were exposed by previous surface coal mining activities. Stormwater and/or seep discharges have pooled in these areas for a sufficient time to allow for early successional hydrophytic vegetation to become established into these wetlands.

State: **Pennsylvania** County/parish/borough: **Clearfield** Township: **Cooper**

Center coordinates of site (lat/long in degree decimal format): **40deg 00' 41" N, Long. -78 deg05'50" W.**

Universal Transverse Mercator:

Name of nearest water body: **W. Br. Susquehanna River**

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: **W. Br. Susquehanna River**

Name of watershed or Hydrologic Unit Code (HUC): **02050201 Upper West Branch of Susquehanna River**

- 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:
 Field Determination. Date(s): **03 May 2013**

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. [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 no** "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
 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

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).

- (i) General Area Conditions:
- Watershed size: Pick List
 - Drainage area: Pick List
 - Average annual rainfall: inches

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

If the waterbody is not an RPPW, or a wetland directly abutting an RPPW, 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.

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.

A wetland that is adjacent to but does not directly abut an RPPW requires a significant nexus evaluation. Corps districts and agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland directly abuts an RPPW 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.

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 *Rapans* have been met.

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

2. Wetland adjacent to TNW
- Summarize rationale supporting conclusion that wetland is “adjacent”;

Summarize rationale supporting determination:

1. TNW
- Identify TNW;

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; otherwise, see Section III.B below.

A. TNWS AND WETLANDS ADJACENT TO TNWS

SECTION III: CWA ANALYSIS

2. Non-regulated waters/wetlands (check if applicable):
- Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not disturbed. Explain: The existing microtopography within the study area is a result of previous surface coal mining activities upon uplands. Because of past earth disturbances, most of the study area was left without positive surface drainage with the only sources of hydrology being provided by surface storm water and ground seeps that were exposed by previous surface coal mining activities. Stormwater and/or deep discharges have pooled in these areas for a sufficient time to allow for early successional hydrophytic vegetation to become established into these wetlands.

- c. Limits (boundaries) of jurisdiction based on: Pick List

- 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: acres.

Average annual snowfall: inches

(ii) **Physical Characteristics:**

(a) **Relationship with TNW:**

- Tributary flows directly into TNW.
- Tributary flows through **Pick List** tributaries before entering TNW.
Project waters are **Pick List** river miles from TNW.
- Project waters are **Pick List** river miles from RPW.
- Project waters are **Pick List** aerial (straight) miles from TNW.
- Project waters are **Pick List** aerial (straight) miles from RPW.
- Project waters cross or serve as state boundaries. Explain: _____

Identify flow route to TNW⁵:

Tributary stream order, if known:

(b) **General Tributary Characteristics (check all that apply):**

- Tributary** is:
- Natural
 - Artificial (man-made). Explain: _____
 - Manipulated (man-altered). Explain: _____

Tributary properties with respect to top of bank (estimate):

Average width: feet

Average depth: feet

Average side slopes: **Pick List**.

Primary tributary substrate composition (check all that apply):

- Silts Sands Concrete
- Cobbles Gravel Muck
- Bedrock Vegetation. Type/% cover: _____
- Other. Explain: _____

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: _____

Presence of run/riffle/pool complexes. Explain: _____

Tributary geometry: **Pick List**

Tributary gradient (approximate average slope): %

(c) **Flow:**

Tributary provides for: **Pick List**

Estimate average number of flow events in review area/year: **Pick List**

Describe flow regime: _____

Other information on duration and volume: _____

Surface flow is: **Pick List**. Characteristics: _____

Subsurface flow: **Pick List**. Explain findings: _____

- Dye (or other) test performed: _____

Tributary has (check all that apply):

- Bed and banks
- OHWM⁶ (check all indicators that apply):
 - clear, natural line impressed on the bank
 - changes in the character of soil
 - shelving
 - vegetation matted down, bent, or absent
 - leaf litter disturbed or washed away
 - sediment deposition
 - water staining
 - other (list): _____
- 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

- Discontinuous OHWM.⁷ Explain: _____

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.

⁶ A 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.

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

(iv) **Biological Characteristics: Channel supports (check all that apply):**

- Riparian corridor. Characteristics (type, average width):
- 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:

(iii) **Chemical Characteristics:**

Identify specific pollutants, if known:

- High Tide Line indicated by:
- Mean High Water Mark indicated by:
- Oil or scum line along shore objects
- Survey to available datum:
- Fine shell or debris deposits (forshore)
- Physical markings:
- Physical markings/characteristics
- Ideal gauges
- other (list):

(ii) **Physical Characteristics:**

Identify specific pollutants, if known:

- Factors other than the OWM were used to determine lateral extent of CWA jurisdiction (check all that apply):
- High Tide Line indicated by:
- Mean High Water Mark indicated by:
- Oil or scum line along shore objects
- Survey to available datum:
- Fine shell or debris deposits (forshore)
- Physical markings:
- Physical markings/characteristics
- Ideal gauges
- other (list):

(i) **Physical Characteristics:**

General Wetland Characteristics:

- General Non-TNW:
- General Flow Reliability with Non-TNW:
- General Flow is: Pick List. Explain findings:
- Surface flow is: Pick List. Explain findings:
- Project wetlands cross state boundaries. Explain:
- Wetland type. Explain:
- Wetland quality. Explain:
- Project wetlands serve as state boundaries. Explain:
- Properties:
- Wetland size: acres
- Wetland type. Explain:
- Wetland quality. Explain:
- General Non-TNW:

(a) **Physical Characteristics:**

General Adacency Determination with Non-TNW:

- Directly abutting
- Not directly abutting
- Discrete wetland hydrologic connection. Explain:
- Ecological connection. Explain:
- Separated by berm/barrier. Explain:
- Proximity (Relationship) to TNW

(c) **Wetland Adacency Determination with Non-TNW:**

- Directly abutting
- Not directly abutting
- Discrete wetland hydrologic connection. Explain:
- Ecological connection. Explain:
- Separated by berm/barrier. Explain:
- Proximity (Relationship) to TNW

(d) **Proximity (Relationship) to TNW**

- Project waters are Pick List river miles from TNW.
- Flow is from: Pick List aerial (straight) miles from TNW.
- Estimate approximate location of wetland as within the Pick List Floodplain.
- Charaterize wetland system (e.g., water color is clear, brown, oily film on surface; water quality; general watershed characteristics; etc.). Explain:
- Riparian buffer. Characteristics (type, average width):
- Vibration type/percent cover. Explain:
- Habitat for:
- Federally Listed species. Explain findings:
- Fish/spawn areas. Explain findings:
- Other environmentally-sensitive species. Explain findings:
- High Tide Line indicated by:
- Mean High Water Mark indicated by:
- Oil or scum line along shore objects
- Survey to available datum:
- Fine shell or debris deposits (forshore)
- Physical markings:
- Physical markings/characteristics
- Ideal gauges
- other (list):

(ii) **Chemical Characteristics:**

Identify specific pollutants, if known:

- Factors other than the OWM were used to determine lateral extent of CWA jurisdiction (check all that apply):
- High Tide Line indicated by:
- Mean High Water Mark indicated by:
- Oil or scum line along shore objects
- Survey to available datum:
- Fine shell or debris deposits (forshore)
- Physical markings:
- Physical markings/characteristics
- Ideal gauges
- other (list):

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

- Riparian buffer. Characteristics (type, average width):
- Vibration type/percent cover. Explain:
- Habitat for:
- Federally Listed species. Explain findings:
- Fish/spawn areas. Explain findings:
- Other environmentally-sensitive species. Explain findings:
- High Tide Line indicated by:
- Mean High Water Mark indicated by:
- Oil or scum line along shore objects
- Survey to available datum:
- Fine shell or debris deposits (forshore)
- Physical markings:
- Physical markings/characteristics
- Ideal gauges
- other (list):

(iv) **Biological Characteristics: Channel supports (check all that apply):**

- Riparian corridor. Characteristics (type, average width):
- 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:

(v) **Physical Characteristics:**

Identify specific pollutants, if known:

- Factors other than the OWM were used to determine lateral extent of CWA jurisdiction (check all that apply):
- High Tide Line indicated by:
- Mean High Water Mark indicated by:
- Oil or scum line along shore objects
- Survey to available datum:
- Fine shell or debris deposits (forshore)
- Physical markings:
- Physical markings/characteristics
- Ideal gauges
- other (list):

(vi) **Chemical Characteristics:**

Identify specific pollutants, if known:

- Factors other than the OWM were used to determine lateral extent of CWA jurisdiction (check all that apply):
- High Tide Line indicated by:
- Mean High Water Mark indicated by:
- Oil or scum line along shore objects
- Survey to available datum:
- Fine shell or debris deposits (forshore)
- Physical markings:
- Physical markings/characteristics
- Ideal gauges
- other (list):

Aquatic/wildlife diversity. Explain findings:

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

All wetland(s) being considered in the cumulative analysis: **Pick List**

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

For each wetland, specify the following:

<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>
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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 food webs?
- 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 (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.**

⁸See Footnote # 3.
⁹To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
¹⁰Prior to asserting jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and review consistent with the processes described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rappans.

⁸See Footnote # 3.

E. ISOLATED INTERSTATE OR INTRA-STATE, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTIO OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY).¹⁰

7. Impoundments of jurisdictional waters.
As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that water created from "waters of the U.S." or AS a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

Demonstrate that impoundment was created from "waters of the U.S." or AS a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

Demonstrate that water is isolated with a nexus to commerce (see E below).

Provide estimates for jurisdictional wetlands in the review area: _____ acres.

- 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 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.

- Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

Provide acreage estimates for jurisdictional wetlands in the review area.

- Wetlands directly abutting an RPW where tributaries typically flow "seasonally". Provide data indicating that wetland is directly seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale how "seasonally".

- Wetlands directly abutting an RPP that now directly or indirectly mix waters.
- Wetlands directly abutting an RPP and thus are jurisdictional as adjacent wetlands.
- Wetlands directly abutting an RPP where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennials in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPP.

- Provide estimates for jetties/structural 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:

- Non-RPWs that now directly or indirectly into TNWs.

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:

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.

- 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 WETLANDS (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): **According to the preamble to the 1986 regulations and per 328.3, man-made depressions created in uplands are generally not jurisdictional. The wetlands and waters depicted on the below table are man-made features created in uplands and are not jurisdictional:**

Waters Name	Cowardin Code	HGM Code	Estimated Amount of Aquatic Resource in Review Area (sq. ft.)
Wetland D	PEMx	Depression	1,045
Wetland H	PEMs	Depression	559
Impoundment Z	POWx	Depression	22
Wetland MM	PEMx	Depression	3,136
Wetland SS	PEMx	Depression	828
Wetland TT	PEMx	Depression	234
Wetland XX	PEMx/POWx	Depression	2,222
Wetland YY	PEMx	Depression	1,394
Wetland ZZ	PEMx	Depression	871
Wetland AAA	PEMx	Depression	1,307
Wetland BBB	PEMx	Depression	1,481

- and requested, appropriately reference sources below):
- Maps, plans, plots or flat submitted by or on behalf of the applicant/consultant: Geotech Engineers, Incorporated.
- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
- Office concurs with data sheets/delination report.
- Office does not concur with data sheets/delination report.
- A. **SUPPORTING DATA.** Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked

SECTION IV: DATA SOURCES.

- Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such findings is required for jurisdiction (check all that apply):
- Non-wetland waters (i.e., rivers, streams)
- Lakes/ponds: acres.
- Other non-wetland waters: acres. List type of aquatic resource:
- 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, 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 best professional judgment (check all that apply):
- Impoundment (i.e., rivers, streams):
- Wetland 4E
- Wetland 4F
- Wetland 4A
- Wetland UU
- Wetland VV
- Wetland XXX
- Wetland WWW
- Wetland UUU
- Wetland TTT
- Wetland NNN
- Wetland LLL
- Wetland KKK
- Wetland EEE
- Wetland DDD
- Wetland CCC

Wetland 4F	PEMX	PEMX	350
Wetland 4E	PEMX	PEMX	461
Impoundment 4A	POWS	Depression	8,161
Impoundment XXX	POWX	Depression	152
Wetland WWW	POWX/PEMX	Depression	1,798
Impoundment UUU	POWX/PEMX	Depression	3,013
Impoundment TTT	POWX	Depression	245
Wetland NNN	PEM1S	Depression	2,275
Wetland LLL	PEM1X	Depression	168
Wetland KKK	PEM1X	Depression	352
Wetland EEE	PEMX	Depression	871
Wetland DDD	PEMX	Depression	871
Wetland CCC	PEMX	Depression	1,742