Feature ID: **A**

SECTION I: BACKGROUND INFORMATION

A. Report Completion Date for Approved Jurisdictional Determination: 08/03/2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature A**

City, County, State: Pima County, AZ

Center coordinates of site: Lat. 32.1227 Long. -111.1758

Name of nearest waterbody: Unnamed Wash A

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050304

☑ Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date: 08/2012

Field Determination. Date: 09/2007

SECTION II: SUMMARY OF FINDINGS

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

There Are No "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet | Width (ft) and/or | Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

☑ Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Drainage is ephemeral and does not qualify as a TNW or RPW. Therefore, this drainage could only be considered jurisdictional if it possessed a significant nexus with a downstream TNW. This drainage does not possess a significant nexus with the downstream TNW.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	10 (or more)
Drainage Area (sq mi):	0.253	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	10.57	River Miles from tributary to RPW:	
Average Annual Snowfall (in):	1.1	Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

☐ Project waters cross or serve as state boundaries. Explain:

Feature ID: A

Identify flow route to TNW:

Topography suggests the route of potential flow is Brawley Wash, Los Robles Wash, Greene Canal, Greene Wash, Santa Rosa Wash, Santa Cruz Wash to the Gila River.

Tributary is: Natural Explain:

Average Width (ft): 6.30

Average Depth (ft): 1

Average Side Slopes: 2:1

Primary tributary substrate composition (check all that apply):

☑ Silts ☑ Sands ☐ Cobbles ☐ Bedrock ☐ Gravel ☐ Vegetation

☐ Concrete ☐ Muck Other, Explain:

Tributary Condition/Stability. Explain: Unstable

Presence of Run/Riffle/Pool Complexes. Explain: Not Present

Tributary Geometry: Meandering

Tributary Gradient (approximate average slope): 2%

(c) Flow:

Tributary Provides for: Ephemeral Flow

Average Flow Events per year: 2-5

Describe Flow Regime: Ephemeral

Other Information on Duration and Volume:

Surface Flow is: Confined

Characteristics:

Subsurface Flow: No

Explain:

Tributary Has:

☐ Bed and Banks

☑ OHWM: OHWM Indicators:

- ☑ Clear, natural line impressed on the bank
- ☐ Changes in soil character
- ☐ Shelving
- ☐ Sediment deposition
- ☐ Sediment sorting
- ☑ Scour
- ☐ Presence of wrack line
- ☐ Vegetation matted down, bent or absent
- ☐ Leaf litter disturbed or washed away
- ☐ Presence of litter and debris
- ☑ Destruction of terrestrial vegetation
- ☐ Abrupt change in plant community
- ☐ Multiple observed or predicted flow events
- ☐ Water staining

Other (list):

☐ Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

Feature ID: A

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

- ☐ Riparian Corridor Characteristics:
- ☐ Wetland Fringe Characteristics:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally -sensitive species Explain:
- ☐ Aquatic/Wildlife diversity Explain:

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

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is: Explain:

Surface Flow is: Characteristics:

Subsurface Flow: Explain Findings:

- ☐ Wetland Directly Abutting Non-TNW
- ☐ Wetland Not Directly Abutting Non-TNW
  - ☐ Discrete wetland hydrologic connection Explain:
  - ☐ Ecologcal connection Explain:
  - ☐ Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

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

- ☐ Riparian Buffer Explain:
- ☐ Vegetation type/percent cover. Explain:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally-sensitive species Explain:
- ☐ Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

Feature ID: A

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

This unnamed ephemeral drainage is located more than 150 river miles from the nearest TNW, the Gila River between Powers Butte and Gillespie Dam. An analysis of peak yearly discharges and potential flood discharges, in combination with the geomorphology of the Analysis Area, the presence of a significant downstream manmade impediments to flow, and the distance to the TNW, suggests that the possibility of a hydrologic connection between this drainage and the TNW is tenuous. No pollutants or critical habitats were identified within the Analysis Area. Additionally, this unnamed ephemeral drainage does not provide lifecycle support functions, nutrients, or organic carbon to species within the TNW. This drainage does not have more than a speculative or insubstantial effect on the physical, chemical, and/or biological integrity of the TNW. Therefore, this unnamed ephemeral drainage does not possess a significant nexus with the TNW reach of the Gila River between Powers Butte and Gillespie Dam.

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

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

1. TNWs and Adjacent Wetlands

☐ TNWs: Linear Feet Width (ft), Or, Acres

☒ Wetlands adjacent to TNWs: Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

☐ Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a signficant nexus with a TNW, and is therfore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

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

☐ Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Feature ID: A

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

As described in Section 3C1 above, an analysis of this ephemeral drainage determined that it did not possess a significant nexus with the nearest TNW.

- [x] Non-wetland waters 1310.00 linear feet (ft), 6.30 width (ft)
- [ ] Other waters acres
- [ ] Wetlands acres

SECTION IV: DATA SOURCES

- [x] Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- [x] Data Sheets Prepared/Submitted on behalf of Applicant
  - [ ] Office Concurs with delineation
  - [ ] Office Does Not Concur with delineation
- [ ] Data Sheets Prepared by the Corps
- [ ] Corps Navigable Water Study
- [ ] US Geological Survey Hydrologic Atlas
  - [ ] USGS NHD Data
  - [ ] USGS 8 and 12 digit HUC Map
- [x] US Geological Survey Map(s) Scale and Quad Name: Brown Mountain and San Xavier Mission SW USGS 7.5' Quadrangles
- [ ] USDA Nat'l Res Conservation Service Soil Survey Citation:
- [ ] National Wetlands Inventory Maps Cite Map Name:
- [ ] State/Local Wetland Inventory Maps
- [ ] FEMA/FIR Maps
- [ ] 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- [x] Aerial Photographs (Name and Date): BING, Microsoft Virtual Earth 2010
- [x] Other Photographs (Name and Date): Ground Photos; 2007
- [x] Previous Determinations File No. and Date of Response Letter: SPL-2006-01833-MB; Sept 12, 2007
- [ ] Applicable/Supporting Case Law Citation:
- [ ] Applicable/Supporting Scientific Literature Citation:

Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: **A1**

SECTION I: BACKGROUND INFORMATION

A. Report Completion Date for Approved Jurisdictional Determination: 08/03/2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature A1**

City, County, State: Pima County, AZ

Center coordinates of site: Lat. 32.1227 Long. -111.1758

Name of nearest waterbody: Unnamed Wash A1

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050304

☑ Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date: 08/2012

Field Determination. Date: 09/2007

SECTION II: SUMMARY OF FINDINGS

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

There Are No "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet | Width (ft) and/or | Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

☑ Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Drainage is ephemeral and does not qualify as a TNW or RPW. Therefore, this drainage could only be considered jurisdictional if it possessed a significant nexus with a downstream TNW. This drainage does not possess a significant nexus with the downstream TNW.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	10 (or more)
Drainage Area (sq mi):	0.111	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	10.57	River Miles from tributary to RPW:	
Average Annual Snowfall (in):	1.1	Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

☐ Project waters cross or serve as state boundaries. Explain:

Feature ID: A1

Identify flow route to TNW:

Topography suggests the route of potential flow is Brawley Wash, Los Robles Wash, Greene Canal, Greene Wash, Santa Rosa Wash, Santa Cruz Wash to the Gila River.

Tributary is: Natural Explain:

Average Width (ft): 9.60

Average Depth (ft): 1

Average Side Slopes: 2:1

Primary tributary substrate composition (check all that apply):

☑ Silts ☑ Sands ☐ Cobbles ☐ Bedrock ☐ Gravel ☐ Vegetation

☐ Concrete ☐ Muck Other, Explain:

Tributary Condition/Stability. Explain: Unstable

Presence of Run/Riffle/Pool Complexes. Explain: Not Present

Tributary Geometry: Meandering

Tributary Gradient (approximate average slope): 2%

(c) Flow:

Tributary Provides for: Ephemeral Flow

Average Flow Events per year: 2-5

Describe Flow Regime: Ephemeral

Other Information on Duration and Volume:

Surface Flow is: Confined

Characteristics:

Subsurface Flow: No

Explain:

Tributary Has:

☐ Bed and Banks

☑ OHWM: OHWM Indicators:

- ☑ Clear, natural line impressed on the bank
- ☐ Changes in soil character
- ☐ Shelving
- ☐ Sediment deposition
- ☐ Sediment sorting
- ☑ Scour
- ☐ Presence of wrack line
- Other (list):
- ☐ Discontinuous? Explain:
- ☐ Vegetation matted down, bent or absent
- ☐ Leaf litter disturbed or washed away
- ☐ Presence of litter and debris
- ☑ Destruction of terrestrial vegetation
- ☐ Abrupt change in plant community
- ☐ Multiple observed or predicted flow events
- ☐ Water staining

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

Feature ID: A1

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

- ☐ Riparian Corridor Characteristics:
- ☐ Wetland Fringe Characteristics:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally -sensitive species Explain:
- ☐ Aquatic/Wildlife diversity Explain:

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

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:
Wetland Quality, Explain:
Project Wetlands Cross or Serve as State Boundaries, Explain:
Wetland Flow is: Explain:
Surface Flow is: Characteristics:
Subsurface Flow: Explain Findings:

- ☐ Wetland Directly Abutting Non-TNW
- ☐ Wetland Not Directly Abutting Non-TNW
  - ☐ Discrete wetland hydrologic connection Explain:
  - ☐ Ecologcal connection Explain:
  - ☐ Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:
Project Wetlands: Aerial Miles from TNW:
Flow is From:
Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

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

- ☐ Riparian Buffer Explain:
- ☐ Vegetation type/percent cover. Explain:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally-sensitive species Explain:
- ☐ Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:
Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

Feature ID: A1

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

This unnamed ephemeral drainage is located more than 150 river miles from the nearest TNW, the Gila River between Powers Butte and Gillespie Dam. An analysis of peak yearly discharges and potential flood discharges, in combination with the geomorphology of the Analysis Area, the presence of a significant downstream manmade impediments to flow, and the distance to the TNW, suggests that the possibility of a hydrologic connection between this drainage and the TNW is tenuous. No pollutants or critical habitats were identified within the Analysis Area. Additionally, this unnamed ephemeral drainage does not provide lifecycle support functions, nutrients, or organic carbon to species within the TNW. This drainage does not have more than a speculative or insubstantial effect on the physical, chemical, and/or biological integrity of the TNW. Therefore, this unnamed ephemeral drainage does not possess a significant nexus with the TNW reach of the Gila River between Powers Butte and Gillespie Dam.

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

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

1. TNWs and Adjacent Wetlands

☐ TNWs: Linear Feet Width (ft), Or, Acres

☒ Wetlands adjacent to TNWs: Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

☐ Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a signficant nexus with a TNW, and is therfore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

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

☐ Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Feature ID: A1

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

As described in Section 3C1 above, an analysis of this ephemeral drainage determined that it did not possess a significant nexus with the nearest TNW.

☑ Non-wetland waters	1640.00	linear feet (ft),	9.60	width (ft)
☐ Other waters		acres		
☐ Wetlands		acres		

SECTION IV: DATA SOURCES

- ☑ Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- ☑ Data Sheets Prepared/Submitted on behalf of Applicant
  - ☐ Office Concurs with delineation
  - ☐ Office Does Not Concur with delineation
- ☐ Data Sheets Prepared by the Corps
- ☐ Corps Navigable Water Study
- ☐ US Geological Survey Hydrologic Atlas
  - ☐ USGS NHD Data
  - ☐ USGS 8 and 12 digit HUC Map
- ☑ US Geological Survey Map(s) Scale and Quad Name: Brown Mountain and San Xavier Mission SW USGS 7.5' Quadrangles
- ☐ USDA Nat'l Res Conservation Service Soil Survey Citation:
- ☐ National Wetlands Inventory Maps Cite Map Name:
- ☐ State/Local Wetland Inventory Maps
- ☐ FEMA/FIR Maps
- ☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- ☑ Aerial Photographs (Name and Date): BING, Microsoft Virtual Earth 2010
- ☑ Other Photographs (Name and Date): Ground Photos; 2007
- ☑ Previous Determinations File No. and Date of Response Letter: SPL-2006-01833-MB; Sept 12, 2007
- ☐ Applicable/Supporting Case Law Citation:
- ☐ Applicable/Supporting Scientific Literature Citation:

Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: **A2**

SECTION I: BACKGROUND INFORMATION

A. Report Completion Date for Approved Jurisdictional Determination: 08/03/2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature A2**

City, County, State: Pima County, AZ

Center coordinates of site: Lat. 32.1227 Long. -111.1758

Name of nearest waterbody: Unnamed Wash A2

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050304

☑ Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date: 08/2012

Field Determination. Date: 09/2007

SECTION II: SUMMARY OF FINDINGS

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

There Are No "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet | Width (ft) and/or | Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

☑ Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Drainage is ephemeral and does not qualify as a TNW or RPW. Therefore, this drainage could only be considered jurisdictional if it possessed a significant nexus with a downstream TNW. This drainage does not possess a significant nexus with the downstream TNW.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	10 (or more)
Drainage Area (sq mi):	0.028	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	10.57	River Miles from tributary to RPW:	
Average Annual Snowfall (in):	1.1	Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

☐ Project waters cross or serve as state boundaries. Explain:

Feature ID: A2

Identify flow route to TNW:

Topography suggests the route of potential flow is Brawley Wash, Los Robles Wash, Greene Canal, Greene Wash, Santa Rosa Wash, Santa Cruz Wash to the Gila River.

Tributary is: Natural Explain:

Average Width (ft): 9.50

Average Depth (ft): 1

Average Side Slopes: 2:1

Primary tributary substrate composition (check all that apply):

☑ Silts ☑ Sands ☐ Cobbles ☐ Bedrock ☐ Gravel ☐ Vegetation

☐ Concrete ☐ Muck Other, Explain:

Tributary Condition/Stability. Explain: Unstable

Presence of Run/Riffle/Pool Complexes. Explain: Not Present

Tributary Geometry: Meandering

Tributary Gradient (approximate average slope): 2%

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 2-5

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Confined Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

☐ Bed and Banks

☑ OHWM: OHWM Indicators:

- ☑ Clear, natural line impressed on the bank
- ☐ Changes in soil character
- ☐ Shelving
- ☐ Sediment deposition
- ☐ Sediment sorting
- ☑ Scour
- ☐ Presence of wrack line
- ☐ Vegetation matted down, bent or absent
- ☐ Leaf litter disturbed or washed away
- ☐ Presence of litter and debris
- ☑ Destruction of terrestrial vegetation
- ☐ Abrupt change in plant community
- ☐ Multiple observed or predicted flow events
- ☐ Water staining

Other (list):

☐ Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

Feature ID: A2

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

- ☐ Riparian Corridor Characteristics:
- ☐ Wetland Fringe Characteristics:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally -sensitive species Explain:
- ☐ Aquatic/Wildlife diversity Explain:

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

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is: Explain:

Surface Flow is: Characteristics:

Subsurface Flow: Explain Findings:

- ☐ Wetland Directly Abutting Non-TNW
- ☐ Wetland Not Directly Abutting Non-TNW
  - ☐ Discrete wetland hydrologic connection Explain:
  - ☐ Ecologcal connection Explain:
  - ☐ Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

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

- ☐ Riparian Buffer Explain:
- ☐ Vegetation type/percent cover. Explain:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally-sensitive species Explain:
- ☐ Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

Feature ID: A2

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

This unnamed ephemeral drainage is located more than 150 river miles from the nearest TNW, the Gila River between Powers Butte and Gillespie Dam. An analysis of peak yearly discharges and potential flood discharges, in combination with the geomorphology of the Analysis Area, the presence of a significant downstream manmade impediments to flow, and the distance to the TNW, suggests that the possibility of a hydrologic connection between this drainage and the TNW is tenuous. No pollutants or critical habitats were identified within the Analysis Area. Additionally, this unnamed ephemeral drainage does not provide lifecycle support functions, nutrients, or organic carbon to species within the TNW. This drainage does not have more than a speculative or insubstantial effect on the physical, chemical, and/or biological integrity of the TNW. Therefore, this unnamed ephemeral drainage does not possess a significant nexus with the TNW reach of the Gila River between Powers Butte and Gillespie Dam.

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

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

1. TNWs and Adjacent Wetlands

☐ TNWs: Linear Feet Width (ft), Or, Acres

☒ Wetlands adjacent to TNWs: Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

☐ Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a signficant nexus with a TNW, and is therfore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

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

☐ Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Feature ID: A2

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

As described in Section 3C1 above, an analysis of this ephemeral drainage determined that it did not possess a significant nexus with the nearest TNW.

☑ Non-wetland waters	5991.00	linear feet (ft),	9.50	width (ft)
☐ Other waters		acres		
☐ Wetlands		acres		

SECTION IV: DATA SOURCES

☑ Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.

☑ Data Sheets Prepared/Submitted on behalf of Applicant

- ☐ Office Concurs with delineation
- ☐ Office Does Not Concur with delineation

☐ Data Sheets Prepared by the Corps

☐ Corps Navigable Water Study

☐ US Geological Survey Hydrologic Atlas

- ☐ USGS NHD Data
- ☐ USGS 8 and 12 digit HUC Map

☑ US Geological Survey Map(s) Scale and Quad Name:

Brown Mountain and San Xavier Mission SW USGS 7.5' Quadrangles

☐ USDA Nat'l Res Conservation Service Soil Survey Citation:

☐ National Wetlands Inventory Maps Cite Map Name:

☐ State/Local Wetland Inventory Maps

☐ FEMA/FIR Maps

☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)

☑ Aerial Photographs (Name and Date): BING, Microsoft Virtual Earth 2010

☑ Other Photographs (Name and Date): Ground Photos; 2007

☑ Previous Determinations File No. and Date of Response Letter: SPL-2006-01833-MB; Sept 12, 2007

☐ Applicable/Supporting Case Law Citation:

☐ Applicable/Supporting Scientific Literature Citation:

Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: **B**

SECTION I: BACKGROUND INFORMATION

A. Report Completion Date for Approved Jurisdictional Determination: 08/03/2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature B**

City, County, State: Pima County, AZ

Center coordinates of site: Lat. 32.1227 Long. -111.1758

Name of nearest waterbody: Unnamed Wash B

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050304

☑ Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date: 08/2012

Field Determination. Date: 09/2007

SECTION II: SUMMARY OF FINDINGS

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

There Are No "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet | Width (ft) and/or | Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

☑ Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Drainage is ephemeral and does not qualify as a TNW or RPW. Therefore, this drainage could only be considered jurisdictional if it possessed a significant nexus with a downstream TNW. This drainage does not possess a significant nexus with the downstream TNW.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	10 (or more)
Drainage Area (sq mi):	0.295	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	10.57	River Miles from tributary to RPW:	
Average Annual Snowfall (in):	1.1	Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

☐ Project waters cross or serve as state boundaries. Explain:

Feature ID: B

Identify flow route to TNW:

Topography suggests the route of potential flow is Brawley Wash, Los Robles Wash, Greene Canal, Greene Wash, Santa Rosa Wash, Santa Cruz Wash to the Gila River.

Tributary is: Natural Explain:

Average Width (ft): 6.50

Average Depth (ft): 1

Average Side Slopes: 2:1

Primary tributary substrate composition (check all that apply):

☑ Silts ☑ Sands ☐ Cobbles ☐ Bedrock ☐ Gravel ☐ Vegetation

☐ Concrete ☐ Muck Other, Explain:

Tributary Condition/Stability. Explain: Unstable

Presence of Run/Riffle/Pool Complexes. Explain: Not Present

Tributary Geometry: Meandering

Tributary Gradient (approximate average slope): 2%

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 2-5

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Confined Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

☐ Bed and Banks

☑ OHWM: OHWM Indicators:

- ☑ Clear, natural line impressed on the bank
- ☐ Changes in soil character
- ☐ Shelving
- ☐ Sediment deposition
- ☐ Sediment sorting
- ☑ Scour
- ☐ Presence of wrack line
- ☐ Vegetation matted down, bent or absent
- ☐ Leaf litter disturbed or washed away
- ☐ Presence of litter and debris
- ☑ Destruction of terrestrial vegetation
- ☐ Abrupt change in plant community
- ☐ Multiple observed or predicted flow events
- ☐ Water staining

Other (list):

☐ Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

Feature ID: B

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

- ☐ Riparian Corridor Characteristics:
- ☐ Wetland Fringe Characteristics:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally -sensitive species Explain:
- ☐ Aquatic/Wildlife diversity Explain:

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

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:
Wetland Quality, Explain:
Project Wetlands Cross or Serve as State Boundaries, Explain:
Wetland Flow is: Explain:
Surface Flow is: Characteristics:
Subsurface Flow: Explain Findings:

- ☐ Wetland Directly Abutting Non-TNW
- ☐ Wetland Not Directly Abutting Non-TNW
  - ☐ Discrete wetland hydrologic connection Explain:
  - ☐ Ecologcal connection Explain:
  - ☐ Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:
Project Wetlands: Aerial Miles from TNW:
Flow is From:
Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

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

- ☐ Riparian Buffer Explain:
- ☐ Vegetation type/percent cover. Explain:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally-sensitive species Explain:
- ☐ Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:
Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

Feature ID: B

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

This unnamed ephemeral drainage is located more than 150 river miles from the nearest TNW, the Gila River between Powers Butte and Gillespie Dam. An analysis of peak yearly discharges and potential flood discharges, in combination with the geomorphology of the Analysis Area, the presence of a significant downstream manmade impediments to flow, and the distance to the TNW, suggests that the possibility of a hydrologic connection between this drainage and the TNW is tenuous. No pollutants or critical habitats were identified within the Analysis Area. Additionally, this unnamed ephemeral drainage does not provide lifecycle support functions, nutrients, or organic carbon to species within the TNW. This drainage does not have more than a speculative or insubstantial effect on the physical, chemical, and/or biological integrity of the TNW. Therefore, this unnamed ephemeral drainage does not possess a significant nexus with the TNW reach of the Gila River between Powers Butte and Gillespie Dam.

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

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

1. TNWs and Adjacent Wetlands

☐ TNWs: Linear Feet Width (ft), Or, Acres

☒ Wetlands adjacent to TNWs: Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

☐ Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a signficant nexus with a TNW, and is therfore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

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

☐ Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Feature ID: B

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

As described in Section 3C1 above, an analysis of this ephemeral drainage determined that it did not possess a significant nexus with the nearest TNW.

- [x] Non-wetland waters 9690.00 linear feet (ft), 6.50 width (ft)
- [ ] Other waters acres
- [ ] Wetlands acres

SECTION IV: DATA SOURCES

- [x] Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- [x] Data Sheets Prepared/Submitted on behalf of Applicant
  - [ ] Office Concurs with delineation
  - [ ] Office Does Not Concur with delineation
- [ ] Data Sheets Prepared by the Corps
- [ ] Corps Navigable Water Study
- [ ] US Geological Survey Hydrologic Atlas
  - [ ] USGS NHD Data
  - [ ] USGS 8 and 12 digit HUC Map
- [x] US Geological Survey Map(s) Scale and Quad Name: Brown Mountain and San Xavier Mission SW USGS 7.5' Quadrangles
- [ ] USDA Nat'l Res Conservation Service Soil Survey Citation:
- [ ] National Wetlands Inventory Maps Cite Map Name:
- [ ] State/Local Wetland Inventory Maps
- [ ] FEMA/FIR Maps
- [ ] 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- [x] Aerial Photographs (Name and Date): BING, Microsoft Virtual Earth 2010
- [x] Other Photographs (Name and Date): Ground Photos; 2007
- [x] Previous Determinations File No. and Date of Response Letter: SPL-2006-01833-MB; Sept 12, 2007
- [ ] Applicable/Supporting Case Law Citation:
- [ ] Applicable/Supporting Scientific Literature Citation:

Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: C

SECTION I: BACKGROUND INFORMATION

A. Report Completion Date for Approved Jurisdictional Determination: 08/03/2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature** C

City, County, State: Pima County, AZ

Center coordinates of site: Lat. 32.1227 Long. -111.1758

Name of nearest waterbody: Unnamed Wash C

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050304

☑ Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date: 08/2012

Field Determination. Date: 09/2007

SECTION II: SUMMARY OF FINDINGS

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

There Are No "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet | Width (ft) and/or | Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

☑ Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Drainage is ephemeral and does not qualify as a TNW or RPW. Therefore, this drainage could only be considered jurisdictional if it possessed a significant nexus with a downstream TNW. This drainage does not possess a significant nexus with the downstream TNW.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	10 (or more)
Drainage Area (sq mi):	3.164	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	10.57	River Miles from tributary to RPW:	
Average Annual Snowfall (in):	1.1	Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

☐ Project waters cross or serve as state boundaries. Explain:

Feature ID: C

Identify flow route to TNW:

Topography suggests the route of potential flow is Brawley Wash, Los Robles Wash, Greene Canal, Greene Wash, Santa Rosa Wash, Santa Cruz Wash to the Gila River.

Tributary is: Natural Explain:

Average Width (ft): 6.20

Average Depth (ft): 1

Average Side Slopes: 2:1

Primary tributary substrate composition (check all that apply):

☑ Silts ☑ Sands ☐ Cobbles ☐ Bedrock ☐ Gravel ☐ Vegetation

☐ Concrete ☐ Muck Other, Explain:

Tributary Condition/Stability. Explain: Unstable

Presence of Run/Riffle/Pool Complexes. Explain: Not Present

Tributary Geometry: Meandering

Tributary Gradient (approximate average slope): 2%

(c) Flow:

Tributary Provides for: Ephemeral Flow

Average Flow Events per year: 2-5

Describe Flow Regime: Ephemeral

Other Information on Duration and Volume:

Surface Flow is: Confined

Characteristics:

Subsurface Flow: No

Explain:

Tributary Has:

☐ Bed and Banks

☑ OHWM: OHWM Indicators:

- ☑ Clear, natural line impressed on the bank
- ☐ Changes in soil character
- ☐ Shelving
- ☐ Sediment deposition
- ☐ Sediment sorting
- ☑ Scour
- ☐ Presence of wrack line
- ☐ Vegetation matted down, bent or absent
- ☐ Leaf litter disturbed or washed away
- ☐ Presence of litter and debris
- ☑ Destruction of terrestrial vegetation
- ☐ Abrupt change in plant community
- ☐ Multiple observed or predicted flow events
- ☐ Water staining

Other (list):

☐ Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

Feature ID: C

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

- ☐ Riparian Corridor Characteristics:
- ☐ Wetland Fringe Characteristics:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally -sensitive species Explain:
- ☐ Aquatic/Wildlife diversity Explain:

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

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:
Wetland Quality, Explain:
Project Wetlands Cross or Serve as State Boundaries, Explain:
Wetland Flow is: Explain:
Surface Flow is: Characteristics:
Subsurface Flow: Explain Findings:

- ☐ Wetland Directly Abutting Non-TNW
- ☐ Wetland Not Directly Abutting Non-TNW
  - ☐ Discrete wetland hydrologic connection Explain:
  - ☐ Ecologcal connection Explain:
  - ☐ Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:
Project Wetlands: Aerial Miles from TNW:
Flow is From:
Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

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

- ☐ Riparian Buffer Explain:
- ☐ Vegetation type/percent cover. Explain:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally-sensitive species Explain:
- ☐ Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:
Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

Feature ID: C

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

This unnamed ephemeral drainage is located more than 150 river miles from the nearest TNW, the Gila River between Powers Butte and Gillespie Dam. An analysis of peak yearly discharges and potential flood discharges, in combination with the geomorphology of the Analysis Area, the presence of a significant downstream manmade impediments to flow, and the distance to the TNW, suggests that the possibility of a hydrologic connection between this drainage and the TNW is tenuous. No pollutants or critical habitats were identified within the Analysis Area. Additionally, this unnamed ephemeral drainage does not provide lifecycle support functions, nutrients, or organic carbon to species within the TNW. This drainage does not have more than a speculative or insubstantial effect on the physical, chemical, and/or biological integrity of the TNW. Therefore, this unnamed ephemeral drainage does not possess a significant nexus with the TNW reach of the Gila River between Powers Butte and Gillespie Dam.

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

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

1. TNWs and Adjacent Wetlands

☐ TNWs: Linear Feet Width (ft), Or, Acres

☒ Wetlands adjacent to TNWs: Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

☐ Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a signficant nexus with a TNW, and is therfore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

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

☐ Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Feature ID: C

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

As described in Section 3C1 above, an analysis of this ephemeral drainage determined that it did not possess a significant nexus with the nearest TNW.

- [x] Non-wetland waters 6935.00 linear feet (ft), 6.20 width (ft)
- [ ] Other waters acres
- [ ] Wetlands acres

SECTION IV: DATA SOURCES

- [x] Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- [x] Data Sheets Prepared/Submitted on behalf of Applicant
  - [ ] Office Concurs with delineation
  - [ ] Office Does Not Concur with delineation
- [ ] Data Sheets Prepared by the Corps
- [ ] Corps Navigable Water Study
- [ ] US Geological Survey Hydrologic Atlas
  - [ ] USGS NHD Data
  - [ ] USGS 8 and 12 digit HUC Map
- [x] US Geological Survey Map(s) Scale and Quad Name: Brown Mountain and San Xavier Mission SW USGS 7.5' Quadrangles
- [ ] USDA Nat'l Res Conservation Service Soil Survey Citation:
- [ ] National Wetlands Inventory Maps Cite Map Name:
- [ ] State/Local Wetland Inventory Maps
- [ ] FEMA/FIR Maps
- [ ] 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- [x] Aerial Photographs (Name and Date): BING, Microsoft Virtual Earth 2010
- [x] Other Photographs (Name and Date): Ground Photos; 2007
- [x] Previous Determinations File No. and Date of Response Letter: SPL-2006-01833-MB; Sept 12, 2007
- [ ] Applicable/Supporting Case Law Citation:
- [ ] Applicable/Supporting Scientific Literature Citation:

Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: **C1**

SECTION I: BACKGROUND INFORMATION

A. Report Completion Date for Approved Jurisdictional Determination: 08/03/2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature C1**

City, County, State: Pima County, AZ

Center coordinates of site: Lat. 32.1227 Long. -111.1758

Name of nearest waterbody: Unnamed Wash C1

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050304

☑ Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date: 08/2012

Field Determination. Date: 09/2007

SECTION II: SUMMARY OF FINDINGS

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

There Are No "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet | Width (ft) and/or | Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

☑ Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Drainage is ephemeral and does not qualify as a TNW or RPW. Therefore, this drainage could only be considered jurisdictional if it possessed a significant nexus with a downstream TNW. This drainage does not possess a significant nexus with the downstream TNW.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	10 (or more)
Drainage Area (sq mi):	1.200	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	10.57	River Miles from tributary to RPW:	
Average Annual Snowfall (in):	1.1	Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

☐ Project waters cross or serve as state boundaries. Explain:

Feature ID: C1

Identify flow route to TNW:

Topography suggests the route of potential flow is Brawley Wash, Los Robles Wash, Greene Canal, Greene Wash, Santa Rosa Wash, Santa Cruz Wash to the Gila River.

Tributary is: Natural Explain:

Average Width (ft): 10.30

Average Depth (ft): 1

Average Side Slopes: 2:1

Primary tributary substrate composition (check all that apply):

☑ Silts ☑ Sands ☐ Cobbles ☐ Bedrock ☐ Gravel ☐ Vegetation

☐ Concrete ☐ Muck Other, Explain:

Tributary Condition/Stability. Explain: Unstable

Presence of Run/Riffle/Pool Complexes. Explain: Not Present

Tributary Geometry: Meandering

Tributary Gradient (approximate average slope): 2%

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 2-5

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Confined Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

☐ Bed and Banks

☑ OHWM: OHWM Indicators:

- ☑ Clear, natural line impressed on the bank
- ☐ Changes in soil character
- ☐ Shelving
- ☐ Sediment deposition
- ☐ Sediment sorting
- ☑ Scour
- ☐ Presence of wrack line
- ☐ Vegetation matted down, bent or absent
- ☐ Leaf litter disturbed or washed away
- ☐ Presence of litter and debris
- ☑ Destruction of terrestrial vegetation
- ☐ Abrupt change in plant community
- ☐ Multiple observed or predicted flow events
- ☐ Water staining

Other (list):

☐ Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

Feature ID: C1

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

- ☐ Riparian Corridor Characteristics:
- ☐ Wetland Fringe Characteristics:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally -sensitive species Explain:
- ☐ Aquatic/Wildlife diversity Explain:

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

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:
Wetland Quality, Explain:
Project Wetlands Cross or Serve as State Boundaries, Explain:
Wetland Flow is: Explain:
Surface Flow is: Characteristics:
Subsurface Flow: Explain Findings:

- ☐ Wetland Directly Abutting Non-TNW
- ☐ Wetland Not Directly Abutting Non-TNW
  - ☐ Discrete wetland hydrologic connection Explain:
  - ☐ Ecologcal connection Explain:
  - ☐ Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:
Project Wetlands: Aerial Miles from TNW:
Flow is From:
Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

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

- ☐ Riparian Buffer Explain:
- ☐ Vegetation type/percent cover. Explain:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally-sensitive species Explain:
- ☐ Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:
Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

Feature ID: C1

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

This unnamed ephemeral drainage is located more than 150 river miles from the nearest TNW, the Gila River between Powers Butte and Gillespie Dam. An analysis of peak yearly discharges and potential flood discharges, in combination with the geomorphology of the Analysis Area, the presence of a significant downstream manmade impediments to flow, and the distance to the TNW, suggests that the possibility of a hydrologic connection between this drainage and the TNW is tenuous. No pollutants or critical habitats were identified within the Analysis Area. Additionally, this unnamed ephemeral drainage does not provide lifecycle support functions, nutrients, or organic carbon to species within the TNW. This drainage does not have more than a speculative or insubstantial effect on the physical, chemical, and/or biological integrity of the TNW. Therefore, this unnamed ephemeral drainage does not possess a significant nexus with the TNW reach of the Gila River between Powers Butte and Gillespie Dam.

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

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

1. TNWs and Adjacent Wetlands

☐ TNWs: Linear Feet Width (ft), Or, Acres

☒ Wetlands adjacent to TNWs: Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

☐ Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a signficant nexus with a TNW, and is therfore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

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

☐ Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Feature ID: C1

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

As described in Section 3C1 above, an analysis of this ephemeral drainage determined that it did not possess a significant nexus with the nearest TNW.

- [x] Non-wetland waters — 2504.00 linear feet (ft), 10.30 width (ft)
- [ ] Other waters — acres
- [ ] Wetlands — acres

SECTION IV: DATA SOURCES

- [x] Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- [x] Data Sheets Prepared/Submitted on behalf of Applicant
  - [ ] Office Concurs with delineation
  - [ ] Office Does Not Concur with delineation
- [ ] Data Sheets Prepared by the Corps
- [ ] Corps Navigable Water Study
- [ ] US Geological Survey Hydrologic Atlas
  - [ ] USGS NHD Data
  - [ ] USGS 8 and 12 digit HUC Map
- [x] US Geological Survey Map(s) Scale and Quad Name: Brown Mountain and San Xavier Mission SW USGS 7.5' Quadrangles
- [ ] USDA Nat'l Res Conservation Service Soil Survey Citation:
- [ ] National Wetlands Inventory Maps Cite Map Name:
- [ ] State/Local Wetland Inventory Maps
- [ ] FEMA/FIR Maps
- [ ] 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- [x] Aerial Photographs (Name and Date): BING, Microsoft Virtual Earth 2010
- [x] Other Photographs (Name and Date): Ground Photos; 2007
- [x] Previous Determinations File No. and Date of Response Letter: SPL-2006-01833-MB; Sept 12, 2007
- [ ] Applicable/Supporting Case Law Citation:
- [ ] Applicable/Supporting Scientific Literature Citation:

Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: **D**

SECTION I: BACKGROUND INFORMATION

A. Report Completion Date for Approved Jurisdictional Determination: 08/03/2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature D**

City, County, State: Pima County, AZ

Center coordinates of site: Lat. 32.1227 Long. -111.1758

Name of nearest waterbody: Unnamed Wash D

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050304

☑ Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date: 08/2012

Field Determination. Date: 09/2007

SECTION II: SUMMARY OF FINDINGS

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

There Are No "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet | Width (ft) and/or | Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

☑ Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Drainage is ephemeral and does not qualify as a TNW or RPW. Therefore, this drainage could only be considered jurisdictional if it possessed a significant nexus with a downstream TNW. This drainage does not possess a significant nexus with the downstream TNW.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	10 (or more)
Drainage Area (sq mi):	0.398	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	10.57	River Miles from tributary to RPW:	
Average Annual Snowfall (in):	1.1	Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

☐ Project waters cross or serve as state boundaries. Explain:

Feature ID: D

Identify flow route to TNW:

Topography suggests the route of potential flow is Brawley Wash, Los Robles Wash, Greene Canal, Greene Wash, Santa Rosa Wash, Santa Cruz Wash to the Gila River.

Tributary is: Natural Explain:

Average Width (ft): 7.00

Average Depth (ft): 1

Average Side Slopes: 2:1

Primary tributary substrate composition (check all that apply):

☑ Silts ☑ Sands ☐ Cobbles ☐ Bedrock ☐ Gravel ☐ Vegetation

☐ Concrete ☐ Muck Other, Explain:

Tributary Condition/Stability. Explain: Unstable

Presence of Run/Riffle/Pool Complexes. Explain: Not Present

Tributary Geometry: Meandering

Tributary Gradient (approximate average slope): 2%

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 2-5

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Confined Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

☐ Bed and Banks

☑ OHWM: OHWM Indicators:

- ☑ Clear, natural line impressed on the bank
- ☐ Changes in soil character
- ☐ Shelving
- ☐ Sediment deposition
- ☐ Sediment sorting
- ☑ Scour
- ☐ Presence of wrack line
- ☐ Vegetation matted down, bent or absent
- ☐ Leaf litter disturbed or washed away
- ☐ Presence of litter and debris
- ☑ Destruction of terrestrial vegetation
- ☐ Abrupt change in plant community
- ☐ Multiple observed or predicted flow events
- ☐ Water staining

Other (list):

☐ Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

Feature ID: D

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

- ☐ Riparian Corridor Characteristics:
- ☐ Wetland Fringe Characteristics:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally -sensitive species Explain:
- ☐ Aquatic/Wildlife diversity Explain:

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

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:
Wetland Quality, Explain:
Project Wetlands Cross or Serve as State Boundaries, Explain:
Wetland Flow is: Explain:
Surface Flow is: Characteristics:
Subsurface Flow: Explain Findings:

- ☐ Wetland Directly Abutting Non-TNW
- ☐ Wetland Not Directly Abutting Non-TNW
  - ☐ Discrete wetland hydrologic connection Explain:
  - ☐ Ecologcal connection Explain:
  - ☐ Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:
Project Wetlands: Aerial Miles from TNW:
Flow is From:
Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

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

- ☐ Riparian Buffer Explain:
- ☐ Vegetation type/percent cover. Explain:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally-sensitive species Explain:
- ☐ Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:
Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

Feature ID: D

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

This unnamed ephemeral drainage is located more than 150 river miles from the nearest TNW, the Gila River between Powers Butte and Gillespie Dam. An analysis of peak yearly discharges and potential flood discharges, in combination with the geomorphology of the Analysis Area, the presence of a significant downstream manmade impediments to flow, and the distance to the TNW, suggests that the possibility of a hydrologic connection between this drainage and the TNW is tenuous. No pollutants or critical habitats were identified within the Analysis Area. Additionally, this unnamed ephemeral drainage does not provide lifecycle support functions, nutrients, or organic carbon to species within the TNW. This drainage does not have more than a speculative or insubstantial effect on the physical, chemical, and/or biological integrity of the TNW. Therefore, this unnamed ephemeral drainage does not possess a significant nexus with the TNW reach of the Gila River between Powers Butte and Gillespie Dam.

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

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

1. TNWs and Adjacent Wetlands

☐ TNWs: Linear Feet Width (ft), Or, Acres

☒ Wetlands adjacent to TNWs: Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

☐ Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a signficant nexus with a TNW, and is therfore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

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

☐ Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Feature ID: D

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

As described in Section 3C1 above, an analysis of this ephemeral drainage determined that it did not possess a significant nexus with the nearest TNW.

- [x] Non-wetland waters 9342.00 linear feet (ft), 7.00 width (ft)
- [ ] Other waters acres
- [ ] Wetlands acres

SECTION IV: DATA SOURCES

- [x] Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- [x] Data Sheets Prepared/Submitted on behalf of Applicant
  - [ ] Office Concurs with delineation
  - [ ] Office Does Not Concur with delineation
- [ ] Data Sheets Prepared by the Corps
- [ ] Corps Navigable Water Study
- [ ] US Geological Survey Hydrologic Atlas
  - [ ] USGS NHD Data
  - [ ] USGS 8 and 12 digit HUC Map
- [x] US Geological Survey Map(s) Scale and Quad Name: Brown Mountain and San Xavier Mission SW USGS 7.5' Quadrangles
- [ ] USDA Nat'l Res Conservation Service Soil Survey Citation:
- [ ] National Wetlands Inventory Maps Cite Map Name:
- [ ] State/Local Wetland Inventory Maps
- [ ] FEMA/FIR Maps
- [ ] 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- [x] Aerial Photographs (Name and Date): BING, Microsoft Virtual Earth 2010
- [x] Other Photographs (Name and Date): Ground Photos; 2007
- [x] Previous Determinations File No. and Date of Response Letter: SPL-2006-01833-MB; Sept 12, 2007
- [ ] Applicable/Supporting Case Law Citation:
- [ ] Applicable/Supporting Scientific Literature Citation:

Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: E

SECTION I: BACKGROUND INFORMATION

A. Report Completion Date for Approved Jurisdictional Determination: 08/03/2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature** E

City, County, State: Pima County, AZ

Center coordinates of site: Lat. 32.1227 Long. -111.1758

Name of nearest waterbody: Unnamed Wash E

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050304

☑ Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date: 08/2012

Field Determination. Date: 09/2007

SECTION II: SUMMARY OF FINDINGS

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

There Are No "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet | Width (ft) and/or | Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

☑ Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Drainage is ephemeral and does not qualify as a TNW or RPW. Therefore, this drainage could only be considered jurisdictional if it possessed a significant nexus with a downstream TNW. This drainage does not possess a significant nexus with the downstream TNW.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	10 (or more)
Drainage Area (sq mi):	0.956	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	10.57	River Miles from tributary to RPW:	
Average Annual Snowfall (in):	1.1	Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

☐ Project waters cross or serve as state boundaries. Explain:

Feature ID: E

Identify flow route to TNW:

Topography suggests the route of potential flow is Brawley Wash, Los Robles Wash, Greene Canal, Greene Wash, Santa Rosa Wash, Santa Cruz Wash to the Gila River.

Tributary is: Natural Explain:

Average Width (ft): 4.70

Average Depth (ft): 1

Average Side Slopes: 2:1

Primary tributary substrate composition (check all that apply):

☑ Silts ☑ Sands ☐ Cobbles ☐ Bedrock ☐ Gravel ☐ Vegetation

☐ Concrete ☐ Muck Other, Explain:

Tributary Condition/Stability. Explain: Unstable

Presence of Run/Riffle/Pool Complexes. Explain: Not Present

Tributary Geometry: Meandering

Tributary Gradient (approximate average slope): 2%

(c) Flow:

Tributary Provides for: Ephemeral Flow

Average Flow Events per year: 2-5

Describe Flow Regime: Ephemeral

Other Information on Duration and Volume:

Surface Flow is: Confined

Characteristics:

Subsurface Flow: No

Explain:

Tributary Has:

☐ Bed and Banks

☑ OHWM: OHWM Indicators:

- ☑ Clear, natural line impressed on the bank
- ☐ Changes in soil character
- ☐ Shelving
- ☐ Sediment deposition
- ☐ Sediment sorting
- ☑ Scour
- ☐ Presence of wrack line
- ☐ Vegetation matted down, bent or absent
- ☐ Leaf litter disturbed or washed away
- ☐ Presence of litter and debris
- ☑ Destruction of terrestrial vegetation
- ☐ Abrupt change in plant community
- ☐ Multiple observed or predicted flow events
- ☐ Water staining

Other (list):

☐ Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

Feature ID: E

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

- ☐ Riparian Corridor Characteristics:
- ☐ Wetland Fringe Characteristics:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally -sensitive species Explain:
- ☐ Aquatic/Wildlife diversity Explain:

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

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:
Wetland Quality, Explain:
Project Wetlands Cross or Serve as State Boundaries, Explain:
Wetland Flow is: Explain:
Surface Flow is: Characteristics:
Subsurface Flow: Explain Findings:

- ☐ Wetland Directly Abutting Non-TNW
- ☐ Wetland Not Directly Abutting Non-TNW
  - ☐ Discrete wetland hydrologic connection Explain:
  - ☐ Ecologcal connection Explain:
  - ☐ Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:
Project Wetlands: Aerial Miles from TNW:
Flow is From:
Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

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

- ☐ Riparian Buffer Explain:
- ☐ Vegetation type/percent cover. Explain:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally-sensitive species Explain:
- ☐ Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:
Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

Feature ID: E

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

This unnamed ephemeral drainage is located more than 150 river miles from the nearest TNW, the Gila River between Powers Butte and Gillespie Dam. An analysis of peak yearly discharges and potential flood discharges, in combination with the geomorphology of the Analysis Area, the presence of a significant downstream manmade impediments to flow, and the distance to the TNW, suggests that the possibility of a hydrologic connection between this drainage and the TNW is tenuous. No pollutants or critical habitats were identified within the Analysis Area. Additionally, this unnamed ephemeral drainage does not provide lifecycle support functions, nutrients, or organic carbon to species within the TNW. This drainage does not have more than a speculative or insubstantial effect on the physical, chemical, and/or biological integrity of the TNW. Therefore, this unnamed ephemeral drainage does not possess a significant nexus with the TNW reach of the Gila River between Powers Butte and Gillespie Dam.

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

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

1. TNWs and Adjacent Wetlands

☐ TNWs: Linear Feet Width (ft), Or, Acres

☒ Wetlands adjacent to TNWs: Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

☐ Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a signficant nexus with a TNW, and is therfore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

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

☐ Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Feature ID: E

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

As described in Section 3C1 above, an analysis of this ephemeral drainage determined that it did not possess a significant nexus with the nearest TNW.

- [x] Non-wetland waters 4604.00 linear feet (ft), 4.70 width (ft)
- [ ] Other waters acres
- [ ] Wetlands acres

SECTION IV: DATA SOURCES

- [x] Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- [x] Data Sheets Prepared/Submitted on behalf of Applicant
  - [ ] Office Concurs with delineation
  - [ ] Office Does Not Concur with delineation
- [ ] Data Sheets Prepared by the Corps
- [ ] Corps Navigable Water Study
- [ ] US Geological Survey Hydrologic Atlas
  - [ ] USGS NHD Data
  - [ ] USGS 8 and 12 digit HUC Map
- [x] US Geological Survey Map(s) Scale and Quad Name: Brown Mountain and San Xavier Mission SW USGS 7.5' Quadrangles
- [ ] USDA Nat'l Res Conservation Service Soil Survey Citation:
- [ ] National Wetlands Inventory Maps Cite Map Name:
- [ ] State/Local Wetland Inventory Maps
- [ ] FEMA/FIR Maps
- [ ] 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- [x] Aerial Photographs (Name and Date): BING, Microsoft Virtual Earth 2010
- [x] Other Photographs (Name and Date): Ground Photos; 2007
- [x] Previous Determinations File No. and Date of Response Letter: SPL-2006-01833-MB; Sept 12, 2007
- [ ] Applicable/Supporting Case Law Citation:
- [ ] Applicable/Supporting Scientific Literature Citation:

Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: **E1**

SECTION I: BACKGROUND INFORMATION

A. Report Completion Date for Approved Jurisdictional Determination: 08/03/2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature** **E1**

City, County, State: Pima County, AZ

Center coordinates of site: Lat. 32.1227 Long. -111.1758

Name of nearest waterbody: Unnamed Wash E1

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050304

☑ Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date: 08/2012

Field Determination. Date: 09/2007

SECTION II: SUMMARY OF FINDINGS

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

There Are No "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet | Width (ft) and/or | Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

☑ Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Drainage is ephemeral and does not qualify as a TNW or RPW. Therefore, this drainage could only be considered jurisdictional if it possessed a significant nexus with a downstream TNW. This drainage does not possess a significant nexus with the downstream TNW.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	10 (or more)
Drainage Area (sq mi):	0.808	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	10.57	River Miles from tributary to RPW:	
Average Annual Snowfall (in):	1.1	Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

☐ Project waters cross or serve as state boundaries. Explain:

Feature ID: E1

Identify flow route to TNW:

Topography suggests the route of potential flow is Brawley Wash, Los Robles Wash, Greene Canal, Greene Wash, Santa Rosa Wash, Santa Cruz Wash to the Gila River.

Tributary is: Natural Explain:

Average Width (ft): 3.30

Average Depth (ft): 1

Average Side Slopes: 2:1

Primary tributary substrate composition (check all that apply):

☑ Silts ☑ Sands ☐ Cobbles ☐ Bedrock ☐ Gravel ☐ Vegetation

☐ Concrete ☐ Muck Other, Explain:

Tributary Condition/Stability. Explain: Unstable

Presence of Run/Riffle/Pool Complexes. Explain: Not Present

Tributary Geometry: Meandering

Tributary Gradient (approximate average slope): 2%

(c) Flow:

Tributary Provides for: Ephemeral Flow

Average Flow Events per year: 2-5

Describe Flow Regime: Ephemeral

Other Information on Duration and Volume:

Surface Flow is: Confined

Characteristics:

Subsurface Flow: No

Explain:

Tributary Has:

☐ Bed and Banks

☑ OHWM: OHWM Indicators:

- ☑ Clear, natural line impressed on the bank
- ☐ Changes in soil character
- ☐ Shelving
- ☐ Sediment deposition
- ☐ Sediment sorting
- ☑ Scour
- ☐ Presence of wrack line
- ☐ Vegetation matted down, bent or absent
- ☐ Leaf litter disturbed or washed away
- ☐ Presence of litter and debris
- ☑ Destruction of terrestrial vegetation
- ☐ Abrupt change in plant community
- ☐ Multiple observed or predicted flow events
- ☐ Water staining

Other (list):

☐ Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

Feature ID: E1

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

- ☐ Riparian Corridor Characteristics:
- ☐ Wetland Fringe Characteristics:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally -sensitive species Explain:
- ☐ Aquatic/Wildlife diversity Explain:

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

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:
Wetland Quality, Explain:
Project Wetlands Cross or Serve as State Boundaries, Explain:
Wetland Flow is: Explain:
Surface Flow is: Characteristics:
Subsurface Flow: Explain Findings:

- ☐ Wetland Directly Abutting Non-TNW
- ☐ Wetland Not Directly Abutting Non-TNW
  - ☐ Discrete wetland hydrologic connection Explain:
  - ☐ Ecologcal connection Explain:
  - ☐ Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:
Project Wetlands: Aerial Miles from TNW:
Flow is From:
Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

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

- ☐ Riparian Buffer Explain:
- ☐ Vegetation type/percent cover. Explain:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally-sensitive species Explain:
- ☐ Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:
Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

Feature ID: E1

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

This unnamed ephemeral drainage is located more than 150 river miles from the nearest TNW, the Gila River between Powers Butte and Gillespie Dam. An analysis of peak yearly discharges and potential flood discharges, in combination with the geomorphology of the Analysis Area, the presence of a significant downstream manmade impediments to flow, and the distance to the TNW, suggests that the possibility of a hydrologic connection between this drainage and the TNW is tenuous. No pollutants or critical habitats were identified within the Analysis Area. Additionally, this unnamed ephemeral drainage does not provide lifecycle support functions, nutrients, or organic carbon to species within the TNW. This drainage does not have more than a speculative or insubstantial effect on the physical, chemical, and/or biological integrity of the TNW. Therefore, this unnamed ephemeral drainage does not possess a significant nexus with the TNW reach of the Gila River between Powers Butte and Gillespie Dam.

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

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

1. TNWs and Adjacent Wetlands

☐ TNWs: Linear Feet Width (ft), Or, Acres

☒ Wetlands adjacent to TNWs: Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

☐ Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a signficant nexus with a TNW, and is therfore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

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

☐ Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Feature ID: E1

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

As described in Section 3C1 above, an analysis of this ephemeral drainage determined that it did not possess a significant nexus with the nearest TNW.

☑ Non-wetland waters	790.00	linear feet (ft),	3.30	width (ft)
☐ Other waters		acres		
☐ Wetlands		acres		

SECTION IV: DATA SOURCES

- ☑ Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- ☑ Data Sheets Prepared/Submitted on behalf of Applicant
  - ☐ Office Concurs with delineation
  - ☐ Office Does Not Concur with delineation
- ☐ Data Sheets Prepared by the Corps
- ☐ Corps Navigable Water Study
- ☐ US Geological Survey Hydrologic Atlas
  - ☐ USGS NHD Data
  - ☐ USGS 8 and 12 digit HUC Map
- ☑ US Geological Survey Map(s) Scale and Quad Name: Brown Mountain and San Xavier Mission SW USGS 7.5' Quadrangles
- ☐ USDA Nat'l Res Conservation Service Soil Survey Citation:
- ☐ National Wetlands Inventory Maps Cite Map Name:
- ☐ State/Local Wetland Inventory Maps
- ☐ FEMA/FIR Maps
- ☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- ☑ Aerial Photographs (Name and Date): BING, Microsoft Virtual Earth 2010
- ☑ Other Photographs (Name and Date): Ground Photos; 2007
- ☑ Previous Determinations File No. and Date of Response Letter: SPL-2006-01833-MB; Sept 12, 2007
- ☐ Applicable/Supporting Case Law Citation:
- ☐ Applicable/Supporting Scientific Literature Citation:

Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: **E1.1**

SECTION I: BACKGROUND INFORMATION

A. Report Completion Date for Approved Jurisdictional Determination: 08/03/2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature** **E1.1**

City, County, State: Pima County, AZ

Center coordinates of site: Lat. 32.1227 Long. -111.1758

Name of nearest waterbody: Unnamed Wash E1.1

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050304

☑ Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date: 08/2012

Field Determination. Date: 09/2007

SECTION II: SUMMARY OF FINDINGS

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

There Are No "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet | Width (ft) and/or | Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

☑ Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Drainage is ephemeral and does not qualify as a TNW or RPW. Therefore, this drainage could only be considered jurisdictional if it possessed a significant nexus with a downstream TNW. This drainage does not possess a significant nexus with the downstream TNW.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	10 (or more)
Drainage Area (sq mi):	0.089	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	10.57	River Miles from tributary to RPW:	
Average Annual Snowfall (in):	1.1	Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

☐ Project waters cross or serve as state boundaries. Explain:

Feature ID: **E1.1**

Identify flow route to TNW:

Topography suggests the route of potential flow is Brawley Wash, Los Robles Wash, Greene Canal, Greene Wash, Santa Rosa Wash, Santa Cruz Wash to the Gila River.

Tributary is: Natural Explain:

Average Width (ft): 9.90

Average Depth (ft): 1

Average Side Slopes: 2:1

Primary tributary substrate composition (check all that apply):

☑ Silts ☑ Sands ☐ Cobbles ☐ Bedrock ☐ Gravel ☐ Vegetation

☐ Concrete ☐ Muck Other, Explain:

Tributary Condition/Stability. Explain: Unstable

Presence of Run/Riffle/Pool Complexes. Explain: Not Present

Tributary Geometry: Meandering

Tributary Gradient (approximate average slope): 2%

(c) Flow:

Tributary Provides for: Ephemeral Flow

Average Flow Events per year: 2-5

Describe Flow Regime: Ephemeral

Other Information on Duration and Volume:

Surface Flow is: Confined

Characteristics:

Subsurface Flow: No

Explain:

Tributary Has:

☐ Bed and Banks

☑ OHWM: OHWM Indicators:

- ☑ Clear, natural line impressed on the bank
- ☐ Changes in soil character
- ☐ Shelving
- ☐ Sediment deposition
- ☐ Sediment sorting
- ☑ Scour
- ☐ Presence of wrack line
- ☐ Vegetation matted down, bent or absent
- ☐ Leaf litter disturbed or washed away
- ☐ Presence of litter and debris
- ☑ Destruction of terrestrial vegetation
- ☐ Abrupt change in plant community
- ☐ Multiple observed or predicted flow events
- ☐ Water staining

Other (list):

☐ Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

Feature ID: E1.1

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

- ☐ Riparian Corridor Characteristics:
- ☐ Wetland Fringe Characteristics:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally -sensitive species Explain:
- ☐ Aquatic/Wildlife diversity Explain:

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

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is: Explain:

Surface Flow is: Characteristics:

Subsurface Flow: Explain Findings:

- ☐ Wetland Directly Abutting Non-TNW
- ☐ Wetland Not Directly Abutting Non-TNW
  - ☐ Discrete wetland hydrologic connection Explain:
  - ☐ Ecologcal connection Explain:
  - ☐ Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

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

- ☐ Riparian Buffer Explain:
- ☐ Vegetation type/percent cover. Explain:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally-sensitive species Explain:
- ☐ Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

Feature ID: E1.1

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

This unnamed ephemeral drainage is located more than 150 river miles from the nearest TNW, the Gila River between Powers Butte and Gillespie Dam. An analysis of peak yearly discharges and potential flood discharges, in combination with the geomorphology of the Analysis Area, the presence of a significant downstream manmade impediments to flow, and the distance to the TNW, suggests that the possibility of a hydrologic connection between this drainage and the TNW is tenuous. No pollutants or critical habitats were identified within the Analysis Area. Additionally, this unnamed ephemeral drainage does not provide lifecycle support functions, nutrients, or organic carbon to species within the TNW. This drainage does not have more than a speculative or insubstantial effect on the physical, chemical, and/or biological integrity of the TNW. Therefore, this unnamed ephemeral drainage does not possess a significant nexus with the TNW reach of the Gila River between Powers Butte and Gillespie Dam.

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

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

1. TNWs and Adjacent Wetlands

☐ TNWs: Linear Feet Width (ft), Or, Acres

☒ Wetlands adjacent to TNWs: Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

☐ Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a signficant nexus with a TNW, and is therfore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

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

☐ Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Feature ID: E1.1

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

As described in Section 3C1 above, an analysis of this ephemeral drainage determined that it did not possess a significant nexus with the nearest TNW.

☑ Non-wetland waters	1755.00	linear feet (ft),	9.90	width (ft)
☐ Other waters		acres		
☐ Wetlands		acres		

SECTION IV: DATA SOURCES

- ☑ Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- ☑ Data Sheets Prepared/Submitted on behalf of Applicant
  - ☐ Office Concurs with delineation
  - ☐ Office Does Not Concur with delineation
- ☐ Data Sheets Prepared by the Corps
- ☐ Corps Navigable Water Study
- ☐ US Geological Survey Hydrologic Atlas
  - ☐ USGS NHD Data
  - ☐ USGS 8 and 12 digit HUC Map
- ☑ US Geological Survey Map(s) Scale and Quad Name: Brown Mountain and San Xavier Mission SW USGS 7.5' Quadrangles
- ☐ USDA Nat'l Res Conservation Service Soil Survey Citation:
- ☐ National Wetlands Inventory Maps Cite Map Name:
- ☐ State/Local Wetland Inventory Maps
- ☐ FEMA/FIR Maps
- ☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- ☑ Aerial Photographs (Name and Date): BING, Microsoft Virtual Earth 2010
- ☑ Other Photographs (Name and Date): Ground Photos; 2007
- ☑ Previous Determinations File No. and Date of Response Letter: SPL-2006-01833-MB; Sept 12, 2007
- ☐ Applicable/Supporting Case Law Citation:
- ☐ Applicable/Supporting Scientific Literature Citation:

Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: **E2**

SECTION I: BACKGROUND INFORMATION

A. Report Completion Date for Approved Jurisdictional Determination: 08/03/2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature E2**

City, County, State: Pima County, AZ

Center coordinates of site: Lat. 32.1227 Long. -111.1758

Name of nearest waterbody: Unnamed Wash E2

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050304

☑ Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date: 08/2012

Field Determination. Date: 09/2007

SECTION II: SUMMARY OF FINDINGS

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

There Are No "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet | Width (ft) and/or | Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

☑ Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Drainage is ephemeral and does not qualify as a TNW or RPW. Therefore, this drainage could only be considered jurisdictional if it possessed a significant nexus with a downstream TNW. This drainage does not possess a significant nexus with the downstream TNW.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	10 (or more)
Drainage Area (sq mi):	0.009	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	10.57	River Miles from tributary to RPW:	
Average Annual Snowfall (in):	1.1	Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

☐ Project waters cross or serve as state boundaries. Explain:

Feature ID: E2

Identify flow route to TNW:

Topography suggests the route of potential flow is Brawley Wash, Los Robles Wash, Greene Canal, Greene Wash, Santa Rosa Wash, Santa Cruz Wash to the Gila River.

Tributary is: Natural Explain:

Average Width (ft): 4.90

Average Depth (ft): 1

Average Side Slopes: 2:1

Primary tributary substrate composition (check all that apply):

☑ Silts ☑ Sands ☐ Cobbles ☐ Bedrock ☐ Gravel ☐ Vegetation

☐ Concrete ☐ Muck Other, Explain:

Tributary Condition/Stability. Explain: Unstable

Presence of Run/Riffle/Pool Complexes. Explain: Not Present

Tributary Geometry: Meandering

Tributary Gradient (approximate average slope): 2%

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 2-5

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Confined Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

☐ Bed and Banks

☑ OHWM: OHWM Indicators:

- ☑ Clear, natural line impressed on the bank
- ☐ Changes in soil character
- ☐ Shelving
- ☐ Sediment deposition
- ☐ Sediment sorting
- ☑ Scour
- ☐ Presence of wrack line
- ☐ Vegetation matted down, bent or absent
- ☐ Leaf litter disturbed or washed away
- ☐ Presence of litter and debris
- ☑ Destruction of terrestrial vegetation
- ☐ Abrupt change in plant community
- ☐ Multiple observed or predicted flow events
- ☐ Water staining

Other (list):

☐ Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

Feature ID: E2

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

- ☐ Riparian Corridor Characteristics:
- ☐ Wetland Fringe Characteristics:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally -sensitive species Explain:
- ☐ Aquatic/Wildlife diversity Explain:

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

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:
Wetland Quality, Explain:
Project Wetlands Cross or Serve as State Boundaries, Explain:
Wetland Flow is: Explain:
Surface Flow is: Characteristics:
Subsurface Flow: Explain Findings:

- ☐ Wetland Directly Abutting Non-TNW
- ☐ Wetland Not Directly Abutting Non-TNW
  - ☐ Discrete wetland hydrologic connection Explain:
  - ☐ Ecologcal connection Explain:
  - ☐ Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:
Project Wetlands: Aerial Miles from TNW:
Flow is From:
Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

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

- ☐ Riparian Buffer Explain:
- ☐ Vegetation type/percent cover. Explain:

Habitat for:

- ☐ Federally Listed Species Explain:
- ☐ Fish/Spawn Areas Explain:
- ☐ Other environmentally-sensitive species Explain:
- ☐ Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:
Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

Feature ID: E2

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

This unnamed ephemeral drainage is located more than 150 river miles from the nearest TNW, the Gila River between Powers Butte and Gillespie Dam. An analysis of peak yearly discharges and potential flood discharges, in combination with the geomorphology of the Analysis Area, the presence of a significant downstream manmade impediments to flow, and the distance to the TNW, suggests that the possibility of a hydrologic connection between this drainage and the TNW is tenuous. No pollutants or critical habitats were identified within the Analysis Area. Additionally, this unnamed ephemeral drainage does not provide lifecycle support functions, nutrients, or organic carbon to species within the TNW. This drainage does not have more than a speculative or insubstantial effect on the physical, chemical, and/or biological integrity of the TNW. Therefore, this unnamed ephemeral drainage does not possess a significant nexus with the TNW reach of the Gila River between Powers Butte and Gillespie Dam.

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

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

1. TNWs and Adjacent Wetlands

☐ TNWs: Linear Feet Width (ft), Or, Acres

☒ Wetlands adjacent to TNWs: Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

☐ Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a signficant nexus with a TNW, and is therfore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

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

☐ Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Feature ID: E2

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

As described in Section 3C1 above, an analysis of this ephemeral drainage determined that it did not possess a significant nexus with the nearest TNW.

- [x] Non-wetland waters 3311.00 linear feet (ft), 4.90 width (ft)
- [ ] Other waters acres
- [ ] Wetlands acres

SECTION IV: DATA SOURCES

- [x] Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- [x] Data Sheets Prepared/Submitted on behalf of Applicant
  - [ ] Office Concurs with delineation
  - [ ] Office Does Not Concur with delineation
- [ ] Data Sheets Prepared by the Corps
- [ ] Corps Navigable Water Study
- [ ] US Geological Survey Hydrologic Atlas
  - [ ] USGS NHD Data
  - [ ] USGS 8 and 12 digit HUC Map
- [x] US Geological Survey Map(s) Scale and Quad Name: Brown Mountain and San Xavier Mission SW USGS 7.5' Quadrangles
- [ ] USDA Nat'l Res Conservation Service Soil Survey Citation:
- [ ] National Wetlands Inventory Maps Cite Map Name:
- [ ] State/Local Wetland Inventory Maps
- [ ] FEMA/FIR Maps
- [ ] 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- [x] Aerial Photographs (Name and Date): BING, Microsoft Virtual Earth 2010
- [x] Other Photographs (Name and Date): Ground Photos; 2007
- [x] Previous Determinations File No. and Date of Response Letter: SPL-2006-01833-MB; Sept 12, 2007
- [ ] Applicable/Supporting Case Law Citation:
- [ ] Applicable/Supporting Scientific Literature Citation:

Other Information, Please Specify:

Additional Comments to Support JD: