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

SECTION I: BACKGROUND INFORMATION	<u> </u>
A. REPORT COMPLETION DATE FOR APPROVED JU	JRISDICTIONAL DETERMINATION (JD): 05-Jan-2009
B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Sac	cramento District, SPK-2009-00018-JD1
C. PROJECT LOCATION AND BACKGROUND INFOR	MATION:
State:	NV - Nevada
County/parish/borough:	Clark
City:	Moapa
Lat:	36.710060392440724
Long:	-114.69464311236895
Universal Transverse Mercator	Folder UTM List
	UTM list determined by folder location NAD83 / UTM zone 11N
	Waters UTM List
	UTM list determined by waters location
Name of nearest waterbody:	NAD83 / UTM zone 11N Muddy River
Name of nearest Traditional Navigable Water (TNW):	•
Name of watershed or Hydrologic Unit Code (HUC):	
Observation and Alice and	
Check if map/diagram of review area and/or potent	
Check if other sites (e.g., offsite mitigation sites, dis	sposal sites, etc¿) are associated with the action and are recorded on a different JD form.
D. REVIEW PERFORMED FOR SITE EVALUATION:	
✓ Office Determination Date: 05-Jan-2009	
✓ Field Determination Date(s): □03-Dec-2008	
Fleid Determination Date(s). 03-Dec-2008	,
SECTION II: SUMMARY OF FINDINGS	
A. RHA SECTION 10 DETERMINATION OF JURISDIC	TION
There "navigable waters of the U.S." within Rivers and I	Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.
Waters subject to the ebb and flow of the	tide.
Waters are presently used, or have been	used in the past, or may be susceptible for use to transport interstate or foreign commerce.
Explain:	
B. CWA SECTION 404 DETERMINATION OF JURISDI	CTION
	/A) jurisdiction (as defined by 33 CFR part 328) in the review area.
There waters of the G.G. Within Glean Water Not (GW	77) Januardan (as defined by 65 of 15 part 526) in the Toview area.
1. Waters of the U.S.	
a. Indicate presence of waters of U.S. in review area: Water Name Water Type	(c) Procent
Muddy River Relatively Permanent Waters (RPWs) t	
b. Identify (estimate) size of waters of the U.S. in the re	eview area:
Area: 242.811 (m²)	
Linear: 15.24 (m)	
c. Limits (boundaries) of jurisdiction:	
• •	
based on: Established by OHWM. OHWM Elevation: (if known)	
Circum Zio vano in (ii vino in)	
2. Non-regulated waters/wetlands: ³	
Potentially jurisdictional waters and/or wetlands were	assessed within the review area and determined to be not jurisdictional. Explain:
SECTION III: CWA ANALYSIS	N
A. TNWs AND WETLANDS ADJACENT TO TNWs	
A. HWS AND WEILANDS ADSACENT TO HWS	,
1.TNW Not Applicable.	
2. Wetland Adjacent to TNW	
Not Applicable.	
D. CHADACTEDISTICS OF TRIBUTARY /THAT IS NOT	A TAIM! AND ITS AD IASSAIT WET ANDS (IS ANY).
B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT	A INW) AND IIS ADJACENT WETLANDS (IF ANT):
Characteristics of non-TNWs that flow directly or inc	directly into TNW
·	unectly into TNW
(i) General Area Conditions:	
Watershed size:	
Drainage area: Average annual rainfall: inches	
Average annual snowfall: inches	
•	
(ii) Physical Characteristics	
(a) Relationship with TNW:	
Tributary flows directly into TNW.	
Tributary flows through [] tributaries before entering	TNW.
:Number of tributaries	
Project waters are river miles from TNW.	

Project Waters are aerial (straight) miles from TNW.

Project waters are aerial(straight) miles from RPW. Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

Tributary Stream Order, if known:

Order	Tributary Name
2	Muddy River

(b) General Tributary Characteristics: Tributary is:

Tributary Name	Natural	Artificial	Explain	Manipulated	Explain
Muddy River	Х	-	-	-	-

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

Tributary Name	Width (ft)	Depth (ft)	Side Slopes		
Muddy River	12	4	Vertical (1:1 or less)		

Primary tributary substrate composition:

Tributary Name	Silt	Sands	Concrete	Cobble	Gravel	Muck	Bedrock	Vegetation	Other
Muddy River	-	Х	-	X	Х	-	-	-	-

Tributary (conditions, stability, presence, geometry, gradient):

Tributary Name	Condition\Stability	Run\Riffle\Pool Complexes	Geometry	Gradient (%)
Muddy River	Sloughing banks	pool, riffle, run complexes within project area	Relatively straight	3

(c) Flow:

Tributary Name	Provides for	Events Per Year	Flow Regime	Duration & Volume
Muddy River	Perennial flow	2-5	Year round flow fed by numerous warm springs upstream.	-

Surface Flow is:

Tributary Name	Surface Flow	Characteristics
Muddy River	Confined	-

Subsurface Flow:

Tributary Name	Subsurface Flow	Explain Findings	Dye (or other) Test
Muddy River	Unknown	-	-

Tributary has:

Tributary	Name	Bed & Banks	онwм	Discontinuous OHWM ⁷	Explain
Muddy Rive	er	X	Х	-	-

Tributaries with OHWM⁶ - (as indicated above)

moutu	aries with Orr	· (us	iiiaioatoa	above												
Tribu	utary Name	OHWM	Clear	Litter	Changes in Soil	Destruction Vegetation	Shelving	Wrack Line	Matted\Absent Vegetation	Sediment Sorting	Leaf Litter	Scour	Sediment Deposition	Flow Events	Water Staining	Cha P
Mudd	dy River	Х	Х	-	-	X	Х	-	-	Х	-	Х	X	-	-	

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

High Tide Line indicated by:

Not Applicable.

Mean High Water Mark indicated by: Not Applicable.

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.).

ĺ	Tributary Name	Explain	Identify specific pollutants, if known
	Muddy River	Somewhat cloudy, but becomes very turbid during storm events.	-

(iv) Biological Characteristics. Channel supports:

Tributary Name	Riparian Corridor	Characteristics	Wetland Fringe	Characteristics	Habitat
Muddy River	-	-	-	-	Х

Habitat for: (as indicated above)

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Tributary Name	Habitat	Federally Listed Species	Explain Findings	Fish\Spawn Areas	Explain Findings	Other Environmentally Sensitive Species	Explain Findings	Aquatic\Wildlife Diversity	Ex
Muddy River	Х	х	Habitat for Moapa Dace and possibly flycatcher	-	-	-	-	-	-

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

(i) Physical Characteristics: (a) General Wetland Characteristics: Properties: Not Applicable.

(b) General Flow Relationship with Non-TNW:

Flow is:

Not Applicable.

Surface flow is:

Subsurface flow:

Not Applicable

(c) Wetland Adjacency Determination with Non-TNW: Not Applicable.

(d) Proximity (Relationship) to TNW:

(ii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

(iii) Biological Characteristics. Wetland supports: Not Applicable.

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

All wetlands being considered in the cumulative analysis:

Summarize overall biological, chemical and physical functions being performed:

C. SIGNIFICANT NEXUS DETERMINATION

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

Significant Nexus: Not Applicable

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

1. TNWs and Adjacent Wetlands:

2. RPWs that flow directly or indirectly into TNWs:

Wetland Name	Flow	Explain
Muddy River	PERENNIAL	Flows year round within project area - historically was a major tributary of the Virgin River - now flows directly into Lake Mead

Provide estimates for jurisdictional waters in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
Muddy River	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs	-	242.81136
Total:		0	242.81136

3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

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

Provide acreage estimates for jurisdictional wetlands in the review area: Not Applicable.

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

Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

7. Impoundments of jurisdictional waters:9

E. ISOLATED (INTERSTATE OR INTRA-STATE) WATERS INCLUDING ISOLATED WETLANDS. THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING WATERS:10 Not Applicable

Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area:

F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not	meet the criteria in	n the 1987 Corps of Engir	neers Wetland Delineation Manual and/or appropriate Regional Supplements:
Review area included isolated waters with no substantial nexus to interstate (or	foreign) commerc	e:	
Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area v	vould have been re	egulated based soley on t	he "Migratory Bird Rule" (MBR):
Waters do not meet the "Significant Nexus" standard, where such a finding is re	equired for jurisdict	tion (Explain):	
Other (Explain):			
Опет (Ехріапт).			
Provide acreage estimates for non-jurisdictional waters in the review area. whe	ere the sole poten	tial basis of jurisdiction	is the MBR factors (ie., presence of migratory birds, presence of endangered species,
rrigated agriculture), using best professional judgment: Not Applicable.	are the colo peter.	and buois or juriouronor.	to the mark actions (to,, processes or imigrator, processes or original species,
Not Applicable.			
Provide acreage estimates for non-jurisdictional waters in the review area, that	do not meet the	"Significant Nexus" sta	ndard, where such a finding is required for jurisdiction.
Not Applicable.			
SECTION IV: DATA SOURCES.			N. Committee of the Com
A. SUPPORTING DATA. Data reviewed for JD			
(listed items shall be included in case file and, where checked and requested, appropriately reference			
Data Reviewed	Source Label	Source Description	
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	-	•	
			,
B. ADDITIONAL COMMENTS TO SUPPORT JD: Not Applicable.			

¹⁻Boxes checked below shall be supported by completing the appropriate sections in Section III below.
2-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³⁻Supporting documentation is presented in Section III.F.

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

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

7-lbid.

^{9 -}To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

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