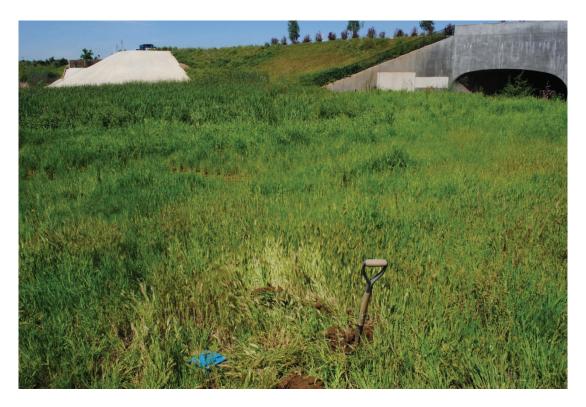


Photograph 5: Sampling Point 1 – Within the Wetland Looking North Towards Leon Road



Photograph 6: Sampling Point 2 – Within the Wetland



Photograph 7: Sampling Point 3 – Non-wetland (upland) - facing southwest towards Clinton Keith Road



Photograph 8: Sampling Point 4 – Within the Wetland - facing south



Photograph 9: Culvert Under Los Alamos Road – facing northwest looking at Los Alamos Road



10: Looking upstream at culvert under Los Alamos Road



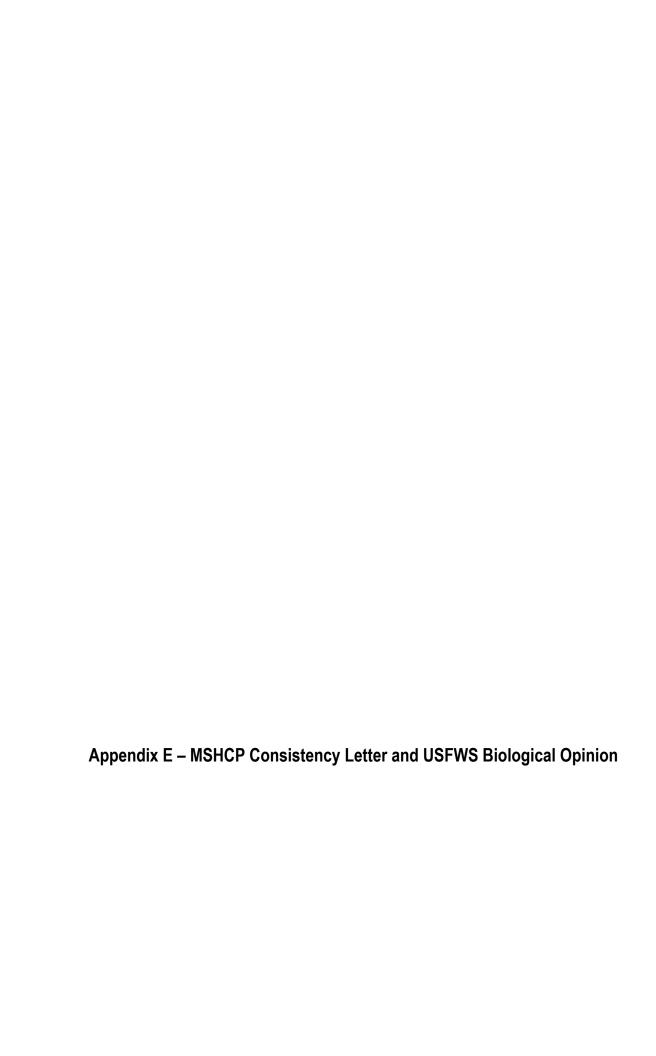
Photograph 11: Double culvert under dirt driveway that conveys flow to French Valley Creek downstream – facing south



Photograph 12: Dirt driveway that contains the double culvert which conveys flows to French Valley Creek downstream – facing west



Photograph 13: Connectivity to French Valley Creek – Water Flows from Wetland Area, via two Culverts, into French Valley Creek





U.S. Fish and Wildlife Service Carlsbad Fish and Wildlife Office 6010 Hidden Valley Road Carlsbad, California 92011 (760) 431-9440 FAX (760) 431-5902 + 9618



California Department of Fish & Game Eastern Sierra Inland Deserts Region 3602 Inland Empire Blvd., Ste C-220 Ontario, California 91764 (909) 484-0459 FAX (909) 481-2945

In Reply Refer To: FWS/CDFG-WRIV-4357.2

FEB 0 2 2007

F. C. 10 17 2

Laurie Dobson Correa County of Riverside Transportation Department P.O. Box 1090 Riverside, California 92502

Subj: Western Riverside County Multiple Species Habitat Conservation Plan Consistency Review for the Clinton Keith Road Extension from Antelope Road to State Route 79 (SR79), Riverside County, California

Dear Ms. Correa:

The U. S. Fish and Wildlife Service (Service) and the California Department of Fish and Game (Department), collectively the "Wildlife Agencies," previously provided comments on the subject project and consistency with the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) in our response to the draft supplemental environmental impact report (February 4, 2005; FWS/CDFG 4357.1) and Joint Project Review (November 4, 2005; FWS/CDFG 4405.57). The following comments are based on information provided in the document titled "Clinton Keith Road Extension Antelope Road to State Route 79: Western Riverside County Multiple Species Habitat Conservation Plan Consistency" revised on August 2006 and on subsequent conversations. We appreciate your extensive coordination with the Wildlife Agencies on this project and your good-faith efforts to modify the project to maintain wildlife connectivity within the MSHCP Conservation Area.

The proposed project includes the widening and extension of the existing Clinton Keith Road between Interstate 215 to SR79. The section between Antelope Road and SR79 will be a new road. On completion, Clinton Keith will be a six-lane road with a median, shoulders, and sidewalks. Other project components include 2 bridges, a wildlife overcrossing, detention basins, and new and improved local access roads and driveways.

Consistency with Cell Criteria

The proposed project is a Covered Activity in the Criteria Area. Impacts from Covered Activities are anticipated within Criteria Cells, but it is important to examine the Cell Criteria to ensure that the amount and location of actual project impacts are consistent with what conservation was estimated and that connectivity between the different cell groups is maintained.

The Clinton Keith Road extension will run east/west through the middle of Proposed Core (PC) 2 and turn south along the eastern boundary of PC 2. The new road will cross Proposed Constrained Linkage (PCL) 18 near the eastern boundary of PC 2 before connecting with SR79. PC 2 provides core habitat to a wide variety of species and is particularly important for the Quino checkerspot butterfly. Because of the large number of Covered Activities in PC 2, it is important to maintain connectivity within the Core and to minimize the effects of Covered Activities on the surrounding environment. PCL 18 is designed to



Laurie Dobson Correa (FWS/CDFG-WRIV-4357.2)

provide live in and movement habitat for species such as the bobcat and Los Angeles pocket mouse, connecting PC 2 with Proposed Extension of Existing Core 7. Based on our review, we agree that the proposed project is consistent with the Cell Criteria. The location and size of the proposed project are similar to what was anticipated in the MSHCP, and, as described below, adequate provisions appear to be in place to ensure connectivity within PC 2 and between PC 2 and PCL 18.

Connectivity within Conserved Lands and Guidelines for Roads in Criteria Area

The wildlife crossings incorporated into the proposed project appear to be appropriately designed and spaced and consistent with the guidelines provided by the MSHCP. The overpass, 36-inch diameter culverts, and bridge over Warm Springs Creek should maintain connectivity between the northern and southern portions of PC 2. Los Alamos Road is an existing dirt road that runs roughly parallel and south of the future Clinton Keith extension, but contains no bridges or overcrossings. During project development, the Service expressed concern that a high traffic load on Los Alamos could negate the benefits of the bridge and overcrossings on Clinton Keith Road. However, we have been informed that there are no plans to improve Los Alamos and that traffic load on Los Alamos is expected to be light following project completion, so wildlife will be able to cross Los Alamos at grade.

The planned bridge over French Valley Creek should provide connectivity between PC 2 and PCL 18 and accommodate movement of bobcat and Los Angeles pocket mouse, the Planning Species identified for PCL 18. Briggs Road runs just west and parallel to the north/south stretch of Clinton Keith Road. According to the information provided, future improvements to Briggs Road include the construction of six concrete box culverts (six feet high by fourteen feet wide) at French Valley Creek immediately west of the bridge over French Valley Creek. Although we are not currently providing MSHCP consistency review for improvements to Briggs Road, it is worth noting that the MSHCP requires that future improvements to Briggs Road include a "span facility over Warm Springs Creek" (MSHCP p. 7-29) as opposed to concrete box culverts.

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Under the Terms and Conditions of the MSHCP permit, the Monitoring Program Administrator of the Western Riverside County Resource Conservation Agency (RCA) is responsible for monitoring and analyzing the effectiveness of wildlife movement features for target species in coordination with the Resource Agencies. Effective monitoring of the wildlife movement features at this location is essential, as this stretch of road will include first wildlife overcrossing constructed in southern California, and there is much to be learned about the use of the different facilities by wildlife, including the Quino checkerspot butterfly.

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The proposed project is within the survey area for burrowing owl and Los Angeles pocket mouse. Focused surveys in 2004 were negative for burrowing owls, burrows, or sign. Focused surveys for Los Angeles pocket mouse pocket in 2003 were also negative, but since the timing of the survey coincided with the general time that hibernation is beginning, the results from this survey are not definitive. In general, the habitat appears to be low quality for Los Angeles pocket mouse because the soils are somewhat compacted, and vegetation was more dense than habitats typically used by this species. Nevertheless, because the previous survey was not definitive, the County has agreed to conduct focused trapping for the Los Angeles pocket mouse in 2007. If the Los Angeles pocket mouse is found in the future surveys, the

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Laurie Dobson Correa (FWS/CDFG-WRIV-4357.2)

County will work with the Wildlife Agencies to ensure that impacts to potential habitat are avoided or to develop a biologically equivalent or superior preservation alternative for this species if impacts are unavoidable.

Protection of Narrow Endemic Plant Species and Plant Species in the Criteria Area Survey

The proposed project is within the Narrow Endemic Plant Species Survey Area 4 and the Criteria Area Species Survey Area 4, but focused surveys in Spring of 2003 for identified plant species were negative.

Riparian/Riverine and Vernal Pool Policy

Of the riparian/riverine species that require additional surveys, the project area contains potential habitat for only least Bell's vireo and southwestern willow flycatcher. Focused surveys for these species were conducted in 2003 and were negative.

The proposed project will temporarily impact 0.25 acre and permanently impact 0.86 acre (including potential shading effects to 0.30 acre) of riparian/riverine resources, including unvegetated wash, mulefat scrub, willow woodland, and upland vegetation (Riversidean sage scrub and grasslands) along the sides of the smaller tributaries.

Determination of Biologically Equivalent or Superior Preservation (DBESP)

To offset the anticipated impacts to riparian/riverine resources, the County has proposed to fund removal of 3.0 acres of arundo and other non-native invasive aquatic plant species through the Mission Conservation District in-lieu fee program, which operates in the Santa Margarita Watershed and to restore temporarily impacted riparian/riverine habitat in the project footprint. However, at the Wildlife Agencies' request, the County has agreed to work with the RCA and the Wildlife Agencies to identify potential restoration opportunities on recently-acquired MSHCP Reserve lands in the Warm Springs area. Restoration of identified locations in Warm Springs would replace some or all of the restoration committed to through the Mission Conservation District in-lieu fee program. A restoration plan for areas identified in the Warm Springs area will be developed in coordination with the Wildlife Agencies.

The restoration of temporarily impacted habitat in the project footprint will be conducted consistent with a habitat restoration plan submitted to the Wildlife Agencies for review and approval.

In addition, the County will implement the minimization measures and Best Management Practices described in the MSHCP to minimize potential impacts to nesting birds and to riparian/riverine resources.

We agree that with the proposed measures described above, the project is consistent with the MSHCP's riparian/riverine policy. Connectivity along riparian corridors will be maintained, temporary impacts will be restored, and permanent impacts will be offset through habitat restoration at a ratio of over three acres restored for each acre impacted. Although the Department is commenting in terms of the project as it relates to MSHCP, a Streambed Alteration Agreement is still required and appropriate mitigation for stream impacts should be coordinated with the appropriate representative at the Department.

Laurie Dobson Correa (FWS/CDFG-WRIV-4357.2)

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Conclusion

With the commitment to repeat surveys for Los Angeles pocket mouse in 2007 and work with the Wildlife Agencies to ensure that impacts to potential habitat are avoided or to develop a DBESP for this species if impacts are unavoidable, we agree that the proposed project is consistent with the MSHCP. However, please be advised that additional requirements may be necessary under other State and Federal Permits and this finding pertains solely to consistency under the MSHCP.

We appreciate your coordination on this project. If you have any questions regarding this review, please contact Jonathan Snyder of the Service at (760) 431-9440 x307 or Leslie MacNair of the Department at (949) 458-1754.

Sincerely.

Karen A. Goebel

Assistant Field Supervisor

Carlsbad Fish and Wildlife Service

Leslie MacNair

Staff Environmental Scientist

California Department of Fish and Game

CC

Joe Richards, Western Riverside County Regional Conservation Authority, Riverside, CA Stephanie Hall, U.S. Army Corps of Engineers, Los Angeles, California Adam Fischer, Regional Water Quality Control Board, Santa Ana, California Jeff Brandt, California Department of Fish and Game, Ontario, California Yvonne Moore, Monitoring Program Administrator, Riverside, California



United States Department of the Interior

FISH & WS. SERVICE

FISH AND WILDLIFE SERVICE

Ecological Services
Carlsbad Fish and Wildlife Office
6010 Hidden Valley Road
Carlsbad, California 92011

In Reply Refer To: FWS-WRIV-4357.3

MAR 6 2007

Colonel Alex Dornstauder
District Engineer
U. S. Army Corps of Engineers
Los Angeles District
Post Office Box 532711
Los Angeles, California 90053-2325

Attn: Laurie Monarres, Regulator Branch (File No. 200602205-LAM)

Subj: Formal Section 7 Consultation for the Clinton Keith Road Extension Project, Riverside

County, California (1-6-07-F-4357.3)

Dear Colonel Dornstauder:

This document transmits our biological opinion based on our review of the Clinton Keith Road extension project and its potential effects on the federally threatened coastal California gnatcatcher (*Polioptila californica californica*, "gnatcatcher") and federally endangered Quino checkerspot butterfly (*Euphydryas editha quino*, "Quino") and Stephens' kangaroo rat (*Dipodomys stephensi*, "SKR"), in accordance with section 7 of the Endangered Species Act of 1973 (Act), as amended (16 U.S.C. 1531 et seq.). The project applicant, the County of Riverside (County), proposes to seek authorization for the project-related incidental take of the abovementioned species through the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) and the Habitat Conservation Plan for the Stephens' Kangaroo Rat in Western Riverside County, California (SKR HCP). We initiated formal consultation on March 2, 2007, the date we received your request.

On June 22, 2004, we issued a section 10(a)(1)(B) permit for the MSHCP. The MSHCP establishes a multiple species conservation program to minimize and mitigate habitat loss and the incidental take of covered species in association with the activities covered under the permit. The proposed project is located within the plan area boundary for the MSHCP. The project also occurs within the plan area boundary of the SKR HCP, dated March 1996. Within this plan area boundary, take of SKR is addressed under the SKR HCP rather than the MSHCP. In order for the applicant to receive incidental take authorization, the proposed action must be consistent with the MSHCP and SKR HCP and the associated implementation agreements and permits.



This Biological Opinion is based on the following documents: 1) Intra-Service Formal Section 7 Consultation/Conference for Issuance of Endangered Species Act Section 10(a)(1)(B) Permit TE-088609-0 for the Western Riverside County Multiple Species Habitat Conservation Plan dated June 22, 2004 (FWS-WRIV-870.19); 2) Intra-Service Section 7 Consultation on Fish and Wildlife Service Issuance of an Incidental Take Permit for the Long-Term Stephens' Kangaroo Rat Habitat Conservation Plan (1-6-96-FW-27); 3) Supplemental Environmental Impact Report 398: Clinton Keith Road Extension Project, Riverside County, California. Prepared for County of Riverside Transportation Department, dated January 2006; 4) Clinton Keith Road Extension Western Riverside County Multiple Species Habitat Conservation Plan Consistency. County of Riverside Transportation Department, dated August 2006; 5) an enclosed letter (FWS/CDFG-WRIV-4357.2, dated February 2, 2007) from the U.S. Fish and Wildlife Service (Service) and California Department of Fish and Game (Department) documenting the consistency of the proposed project with the MSHCP; and 6) other information available in our files. The complete project file addressing this consultation is maintained at the Carlsbad Fish and Wildlife Office.

The proposed project would widen the existing Clinton Keith Road between Antelope Road and Los Alamos Road and extend Clinton Keith Road from Los Alamos Road to SR 79 at Benton Road. The project is about 3.4 miles in total length and runs between the northern boundary of the City of Murrieta and unincorporated Riverside County.

Impacts to Federally Listed Species

Implementation of the proposed project will impact a total of about 130 acres including about 42 acres of Riversidean sage scrub. About 10 pairs of gnatcatchers were observed in the Riversidean sage scrub within and adjacent to the proposed project footprint. In addition, much of the Riversidean sage scrub contains *Plantago erecta* and *Castilleja exserta*, which are host plants for Quino, and a male Quino was observed in the project footprint in 2000. SKR were trapped along the project footprint in annual grassland near the western end of the proposed widening and in Riversidean sage scrub just west of Warm Springs Creek.

MSHCP Criteria Cells and Guidelines for Roads in Criteria Area

As described in the enclosed letter (FWS/CDFG-WRIV-4357.2, dated February 2, 2007), the proposed project is in a location consistent with that identified in the MSHCP and will provide wildlife undercrossings and a wildlife overpass anticipated to maintain connectivity within MSHCP Conserved Lands.

MSHCP Additional Survey Needs and Procedures

Pursuant to the MSHCP, surveys were conducted for burrowing owl (*Athene cunicularia*), rare plants in the Criteria Area Species Survey Area, and plant species identified in the MSHCP as Narrow Endemic Plant Species. Surveys for these species were negative.

Under the MSHCP, focused surveys are also required for Los Angeles pocket mouse (*Perognathus longimembris brevinasus*). These surveys were conducted in 2003 and were negative, but since the timing of the survey coincided with the general time that this species begins to hibernate, the results from this survey are not definitive. Therefore, the County has agreed to conduct focused trapping for the Los Angeles pocket mouse in 2007. If the Los Angeles pocket mouse is found in the future surveys, the County will work with the Service and Department to ensure that impacts to potential habitat are avoided or to develop a biologically equivalent or superior preservation alternative for this species if impacts are unavoidable.

MSHCP Riparian/Riverine Policy

Impacts to riparian/riverine resources as defined in the MSHCP include about 0.86 acre of permanent impact (including shading from the bridge over Warm Springs Creek) and 0.25 acre of temporary impacts to a combination of mulefat scrub, willow woodland, unvegetated wash, and transitional riparian/upland vegetation. Impacts to waters of the United States include about 0.56 acre of permanent impact and 0.25 acre of temporary impact. The impacted watercourses include Warm Springs Creek and some of its tributaries and French Valley Creek. Of the riparian/riverine species that require additional surveys under the MSHCP, the project area contains potential habitat for only least Bell's vireo and southwestern willow flycatcher. Focused surveys for these species conducted in 2003 were negative.

In accordance with the Riparian/Riverine Policy, a Determination of Biologically Equivalent or Superior Preservation (Determination) was prepared to address the impacts to riparian/riverine habitat. The Determination proposes to offset riparian/riverine impacts by funding removal of 3.0 acres of arundo and other non-native invasive aquatic plant species through the Mission Conservation District in-lieu fee program, which operates in the Santa Margarita Watershed and to restore temporarily impacted riparian/riverine habitat in the project footprint. We agree that this approach is consistent with the MSHCP Riparian/Riverine Policy. However, at the request of the Service and the Department, the County agreed to work with these agencies to identify potential restoration opportunities on recently-acquired MSHCP Reserve lands in the Warm Springs area. Restoration of identified locations in Warm Springs could replace some or all of the restoration committed to through the Mission Conservation District in-lieu fee program. In addition, it is our understanding that the Corps is working with the County to identify opportunities for wetland creation to help offset project-associated impacts.

The County will implement minimization measures and Best Management Practices described in the MSHCP to minimize potential impacts to nesting birds and to riparian/riverine resources

Conclusion Based on Consistency with the MSHCP

Based on our review of the information provided to us, we have determined that the proposed project is consistent with relevant MSHCP policies and procedures. The status of the gnatcatcher and Quino and the effects of implementing the MSHCP were previously addressed in our

biological opinion dated June 22, 2004, in which we concluded that the level of anticipated take in the MSHCP Plan Area was not likely to result in jeopardy to these species. We do not anticipate any adverse effects to the gnatcatcher or Quino that were not previously evaluated in the biological opinion for the MSHCP. Therefore, it is our conclusion that implementation of the proposed project will not result in jeopardy to the gnatcatcher or Quino.

Consistency with the SKR HCP

We have also determined that the proposed project is consistent with the SKR HCP and its associated implementing agreement and permit. The status of SKR and effects of implementing the SKR HCP were previously addressed in our biological opinion dated May 2, 1996. In the biological opinion for the SKR HCP, we concluded that the level of anticipated take in the plan area for this HCP was not likely to result in jeopardy to the SKR. Given that the proposed action is consistent with the SKR HCP, we do not anticipate any adverse effects to SKR that were not previously evaluated in the biological opinion for the SKR HCP. Therefore, it is our conclusion that implementation of the proposed project will not result in jeopardy to SKR.

This concludes formal consultation on the proposed action. As provided in 50 CFR 5402.16, reinitiation of formal consultation is required where discretionary Federal agency involvement or control over the action has been retained (or is authorized by law) and if: 1) the amount or extent of incidental take is exceeded; 2) new information reveals effects of the proposed action that may affect listed species or critical habitat in a manner or to an extent not considered in this opinion; 3) the agency action is subsequently modified in a manner that causes an effect to listed species or critical habitat that was not considered in this opinion; or 4) a new species is listed or critical habitat is designated that may be affected by the proposed action. In instances where the amount or extent of incidental take is exceeded, any operations causing such take must cease pending reinitiation.

If you have any questions regarding this biological opinion, please contact Jonathan Snyder of this office at (760) 431-9440, extension 307.

Sincerely,

Karen A. Goebel

Assistant Field Supervisor

Enclosure

cc:

Laurie Dobson Correa, County of Riverside, Riverside, CA



U.S. Fish and Wilc. Service Carlsbad Fish and Wildlife Office 6010 Hidden Valley Road Carlsbad, California 92011 (760) 431-9440 FAX (760) 431-5902 + 9618



Cal hia Department of Fish & Game Eastern Sierra Inland Deserts Region 3602 Inland Empire Blvd., Ste C-220 Ontario, California 91764 (909) 484-0459 FAX (909) 481-2945

In Reply Refer To: FWS/CDFG-WRIV-4357.2

FEB 0 2 2007

Laurie Dobson Correa County of Riverside Transportation Department P.O. Box 1090 Riverside, California 92502

Subj: Western Riverside County Multiple Species Habitat Conservation Plan Consistency Review for the Clinton Keith Road Extension from Antelope Road to State Route 79 (SR79), Riverside County, California

Dear Ms. Correa:

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The wildlife crossings incorporated into the proposed project appear to be appropriately designed and spaced and consistent with the guidelines provided by the MSHCP. The overpass, 36-inch diameter culverts, and bridge over Warm Springs Creek should maintain connectivity between the northern and southern portions of PC 2. Los Alamos Road is an existing dirt road that runs roughly parallel and south of the future Clinton Keith extension, but contains no bridges or overcrossings. During project development, the Service expressed concern that a high traffic load on Los Alamos could negate the benefits of the bridge and overcrossings on Clinton Keith Road. However, we have been informed that there are no plans to improve Los Alamos and that traffic load on Los Alamos is expected to be light following project completion, so wildlife will be able to cross Los Alamos at grade.

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We appreciate your coordination on this project. If you have any questions regarding this review, please contact Jonathan Snyder of the Service at (760) 431-9440 x307 or Leslie MacNair of the Department at (949) 458-1754.

Sincerely,

Karen A. Goebel

Assistant Field Supervisor

Carlsbad Fish and Wildlife Service

Leslie MacNair

Staff Environmental Scientist

California Department of Fish and Game

cc:

Joe Richards, Western Riverside County Regional Conservation Authority, Riverside, CA Stephanie Hall, U.S. Army Corps of Engineers, Los Angeles, California Adam Fischer, Regional Water Quality Control Board, Santa Ana, California Jeff Brandt, California Department of Fish and Game, Ontario, California Yvonne Moore, Monitoring Program Administrator, Riverside, California

Appendix F – Field Data Sheets

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HYDROLOGY	29		
Wetland Hydrology Indicators:		Secondary	Indicators (2 or more required)
Primary Indicators (any one indicator is suffi	cient)	Water	Marks (B1) (Riverine)
Surface Water (A1)	Salt Crust (B11)	Sedim	ent Deposits (B2) (Riverine)
── High Water Table (A2)	Biotic Crust (B12)		eposits (B3) (Riverine)
X Saturation (A3)	Aquatic Invertebrates (B13)		
	Aqualic live lebiales (D13)	Draina	ige Patterns (B10)
			ige Patterns (B10) eason Water Table (C2)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-S	ige Patterns (B10) eason Water Table (C2) fluck Surface (C7)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Hydrogen Sulfide Odor (C1)Oxidized Rhizospheres along Livi	Dry-S ng Roots (C3) Thin N	eason Water Table (C2) luck Surface (C7)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Hydrogen Sulfide Odor (C1)Oxidized Rhizospheres along LiviPresence of Reduced Iron (C4)	Dry-S ng Roots (C3) Thin M Crayfi	eason Water Table (C2) fluck Surface (C7) sh Burrows (C8)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed	Dry-S ng Roots (C3) Thin N Crayfi Soils (C6) Satura	eason Water Table (C2) luck Surface (C7)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed	Dry-S ng Roots (C3) Thin M Crayfi Soils (C6) Satura Shallo	eason Water Table (C2) fluck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed	Dry-S ng Roots (C3) Thin M Crayfi Soils (C6) Satura Shallo	eason Water Table (C2) fluck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations:	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Other (Explain in Remarks)	Dry-S ng Roots (C3) Thin M Crayfi Soils (C6) Satura Shallo	eason Water Table (C2) fluck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Other (Explain in Remarks) No Depth (inches):	Dry-S ng Roots (C3) Thin M Crayfi Soils (C6) Satura Shallo	eason Water Table (C2) fluck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Dry-Sing Roots (C3) Thin Min	eason Water Table (C2) fluck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) leutral Test (D5)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Output (inches):	Dry-Sing Roots (C3) Thin Min Crayfi Soils (C6) Satura Shallo FAC-Min FAC-Min Crayfi Shallo FAC-M	eason Water Table (C2) fluck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) leutral Test (D5)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Dry-Sing Roots (C3) Thin Min Crayfi Soils (C6) Satura Shallo FAC-Min FAC-Min Crayfi Shallo FAC-M	eason Water Table (C2) fluck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) leutral Test (D5)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Output (inches):	Dry-Sing Roots (C3) Thin Min Crayfi Soils (C6) Satura Shallo FAC-Min FAC-Min Crayfi Shallo FAC-M	eason Water Table (C2) fluck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) leutral Test (D5)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, months)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): onitoring well, aerial photos, previous inspec	Dry-Sing Roots (C3) Thin Min Crayfi Soils (C6) Satura Shallo FAC-Min FAC-Min Crayfi Shallo FAC-M	eason Water Table (C2) fluck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) leutral Test (D5)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, months)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): onitoring well, aerial photos, previous inspec	Dry-Sing Roots (C3) Thin Min Crayfi Soils (C6) Satura Shallo FAC-Min FAC-Min Crayfi Shallo FAC-M	eason Water Table (C2) fluck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) leutral Test (D5)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, months)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): onitoring well, aerial photos, previous inspec	Dry-Sing Roots (C3) Thin Min Crayfi Soils (C6) Satura Shallo FAC-Min FAC-Min Crayfi Shallo FAC-M	eason Water Table (C2) fluck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) leutral Test (D5)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, months)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): onitoring well, aerial photos, previous inspec	Dry-Sing Roots (C3) Thin Min Crayfi Soils (C6) Satura Shallo FAC-Min FAC-Min Crayfi Shallo FAC-M	eason Water Table (C2) fluck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) leutral Test (D5)

WETLAND DETERMINATION DATA FORM - Arid West Region RIM City/County: RIVERSIDE State: __ Sampling Point: Section, Township, Range: S31, T65, Local relief (concave, convex, none): Concave Slope (%): Landform (hillslope, terrace, etc.): Lat: 33.5979 Long: -117.127261 Soil Map Unit Name: rate Jandy Loam NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes ______ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No ___ Is the Sampled Area Yes_ No _____ Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes Remarks: **VEGETATION** Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Use scientific names.) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species Total Cover: That Are OBL, FACW, or FAC: Sapling/Shrub Stratum Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species ____ x 2 = ____ ___ x 3 = ___ FAC species FACU species Total Cover: ____ x 4 = ____ ____ x 5 = ____ UPL species Column Totals: _____ (A) ____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: ✓ Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Total Cover: Woody Vine Stratum ¹Indicators of hydric soil and wetland hydrology must be present. Total Cover: Hydrophytic Vegetation % Bare Ground in Herb Stratum _ % Cover of Biotic Crust _ Present?

Remarks:

10% 00% Muligate Sampling Point:

Profile Desc	cription: (Describe to the de				or confirm	the absence	of indicat	ors.)	
Depth	Matrix Color (moist) %	Color (moist)	x Feature	es Type ¹	_Loc²	Toxturo		Domarke	
(inches)	Color (moist) %	Color (moist)	%	_ i ype	LUC	<u>Texture</u>	1/0.	Remarks	colledon
<u>U-0</u>	9K 1/2	EL 10 4/1	1	_	M	SOMM	a cay	ser igo	again
		54K 10	0			aracy	<u>aay</u>		
							<u> </u>		
8-12	,	5UD 4/10	5	C	M	sand	y clar	1	
			-				0		
						***************************************	-		
			-				-		
						CTC -			
						*	ti .		
¹Type: C=C	oncentration, D=Depletion, RI	M=Reduced Matrix.	² Locatio	n: PL=Po	re Lining, R	C=Root Char	nnel, M=Mat	rix.	
	Indicators: (Applicable to a							ematic Hydric	Soils³:
Histoso	I (A1)	Sandy Red	ox (S5)			1 cm	Muck (A9) (LRR C)	
Histic E	pipedon (A2)	Stripped M	atrix (S6)			2 cm	Muck (A10)	(LRR B)	
Black H	istic (A3)	Loamy Mud	-			Redu	ced Vertic (F18)	
	en Sulfide (A4)	Loamy Gle					Parent Mate		
	d Layers (A5) (LRR C)	∑ Depleted N				Other	(Explain in	Remarks)	
	uck (A9) (LRR D)	Redox Dari							
	d Below Dark Surface (A11)	Depleted D							
	ark Surface (A12) Mucky Mineral (S1)	Redox Dep Vernal Poo		(ГО)		3Indicators	s of hydronk	ytic vegetatio	n and
	Gleyed Matrix (S4)	veman oo	13 (1 3)					must be pres	
	Layer (if present):					1	,		
Type:	11/a							Tot.	
Depth (ir	iches).					Hydric Soi	il Present?	Yes	No
	sisterbed x			Įr.					
HYDROLO	OGY								
	drology Indicators:					Seco	ndary Indic	ators (2 or mo	re required)
-	icators (any one indicator is su	ufficient)						s (B1) (Riveri	
	Water (A1)	Salt Crust	t (B11)					eposits (B2) (I	
	ater Table (A2)	∑ Biotic Cru						ts (B3) (River	
	ion (A3)	Aquatic Ir		es (B13)				atterns (B10)	
_	Marks (B1) (Nonriverine)	Hydrogen						Water Table	(C2)
	ent Deposits (B2) (Nonriverine				Living Roo		•	Surface (C7)	(/
	eposits (B3) (Nonriverine)			ced Iron (C	-		Crayfish Bu		
	e Soil Cracks (B6)				wed Soils (al Imagery (C9)
	tion Visible on Aerial Imagery				(-	Shallow Ag		
	Stained Leaves (B9)							l Test (D5)	
Field Obse								1/	2
	iter Present? Yes	No Denth (in	nches):						
Water Table								`	
						and Hydrolo	eu Draaant	2 Vac X	No
Saturation I	Present? Yes apillary fringe)	_ No _X_ Depth (ir	iches)		well	and Hydrolo	gy Present	r res <u> </u>	
Describe R	ecorded Data (stream gauge,	monitoring well, aerial	photos, p	orevious in	spections),	if available:			
							A		
Remarks:				7/2014/15		_	Bas	d on	
						Pr	ma	2 On	
Λ.							MELTO	110-1	
							J	10/2	1
1								CQ.	An-

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: Clinton Keith Rd. Extension city/county: Riverside Applicant/Owner: _ RCTD State: CA Sampling Point: ___ Investigator(s): Tames 60 ham / Maisa William Section, Township, Range: 531 Tas Raus Landform (hillslope, terrace, etc.): Would be solved by Local relief (concave, convex, none): Concave, Slope (%): Lat: 33.5979 | Long: 117.12726 | Datum: Subregion (LRR): Soil Map Unit Name: Monsemble Sandy I mm __ NWI classification: __ No _____ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Yes / No ___ Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes X No Remarks: VEGETATION Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Use scientific names.) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: **Total Number of Dominant** Species Across All Strata: Percent of Dominant Species Total Cover: _____ That Are OBL, FACW, or FAC: Sapling/Shrub Stratum Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species ____ x 2 = FAC species _____ x 3 = ____ FACU species x 4 = ____ Total Cover: UPL species _____ x 5 = ____ Column Totals: _____ (A) ____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Total Cover: Woody Vine Stratum ¹Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Total Cover: Vegetation % Cover of Biotic Crust % Bare Ground in Herb Stratum Present? Remarks:

Sampling Point: 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix			x Features			_			
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-10	54R 3/3						Sandy	1am		
1,-12.	5/1123/3		SUR 4/10	1	C	M	Sande	1/pam		
0 100	J		age in			·) 12:3	***	
					-		_			
							_			
4										
			×.							
-						-	_	-		
										2
¹ Type: C=C	oncentration, D=Depl	etion, RM=R	educed Matrix.	² Location	: PL=Po	re Lining,	RC=Root Cha	annel, M=Matrix.		
Hydric Soil	Indicators: (Applica	ble to all Li	RRs, unless othe	rwise not	ed.)		Indicato	rs for Problemat	tic Hydric Soils³	:
Histosol	I (A1)		Sandy Red	ox (S5)			1 cm	n Muck (A9) (LRR	R C)	
Histic E	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm	n Muck (A10) (LR	RB)	
Black H	istic (A3)		Loamy Mud	ky Minera	I (F1)		Red	uced Vertic (F18)		
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red	Parent Material (TF2)	
Stratifie	d Layers (A5) (LRR C	()	Depleted M	latrix (F3)			Othe	er (Explain in Ren	narks)	
_	uck (A9) (LRR D)		Redox Dark							
1 — .	d Below Dark Surface	e (A11)	Depleted D							
	ark Surface (A12)		Redox Dep		F8)		31			
	Mucky Mineral (S1)		Vernal Poo	is (F9)				rs of hydrophytic nd hydrology mus	-	
	Gleyed Matrix (S4) Layer (if present):						wetta	na nyarology mus	st be present.	×
	Layer (II present).		*							
Type:	.1						Usedaia Co	-:! D	an Na	\wedge
Depth (in	icnes):						nyuric 30	oil Present? Y	es No	
Remarks:	10									
1										
HYDROLC)GY									
	drology Indicators:						Sec	condary Indicators	s (2 or more requ	ired)
	icators (any one indicators)	ator is suffici	ant)				<u>550</u>	Water Marks (B		
		ator is sumor		(D11)				Sediment Depos)
	Water (A1)		Salt Crust				_	The state of the second second second second second	, , ,	ie)
	ater Table (A2)		Biotic Cru		- (D42)			Drift Deposits (B		
	ion (A3)	V	Aquatic In					Drainage Patter		
	Marks (B1) (Nonriveri		Hydrogen			. Liuina D	— —	Dry-Season Wa		
	ent Deposits (B2) (Nor				1000000		toots (C3)	Thin Muck Surfa	151 151	
	posits (B3) (Nonriver	ine)	Presence		•			Crayfish Burrow		(00)
	Soil Cracks (B6)	(57)		on Reducti		wed Soils		Saturation Visible		ery (C9)
	tion Visible on Aerial I	magery (B7)	Other (Ex	piain in Re	emarks)			Shallow Aquitare		
	Stained Leaves (B9)							FAC-Neutral Te	St (D3)	
Field Obse			V							
500 SEC. SEC. SEC. SEC. SEC. SEC. SEC. SEC.		es N	\ /	nches):						
Water Table		es N		nches):						\/
Saturation F		es N	o Depth (ir	nches):		We	etland Hydrol	ogy Present? \	/es No	· —
	apillary fringe) ecorded Data (stream	dande mon	itoring well aerial	nhotos ni	evious in	spections	s) if available			
Describe Kr	econded Data (Stiedill	gauge, mon	moning wen, acrial	priotos, pi	CVIOUS III	эрсонопа	o,, ii avallabic.			
Remarks:										
1										

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Clinton Keith Exte	Mohan c	city/County:	2144	SI DE COUNT Sampling Date: 4/5///
Applicant/Owner: RCTD				State: CA Sampling Point: 3 (1)
Investigator(s): James Corham/Meussal	Williams	Section, Town	nship, Ra	nge: 531, T(05, R2W
Landform (hillslope, terrace, etc.):	asin 1	Local relief (c	concave.	convex, none): Oncove Slope (%):
Subregion (LRR): Medit Crantan Calif. Cuppe	(Lat: 33	.59791	1	Long: 117. 12726 Datum:
Soil Map Unit Name: MMB MARCIO	10	2//	nan	
Are climatic / hydrologic conditions on the site typical for th		11	No	
Are Vegetation, Soil, or Hydrology				Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology				
SUMMARY OF FINDINGS – Attach site map				eded, explain any answers in Remarks.)
Obliniary of Findings - Attach site map	, snowing .	sampling	ponici	
Hydrophytic Vegetation Present? Yes I	No	Is the S	Sampled	Area
Hydric Soil Present? Yes I	~ /		a Wetlar	×
Wetland Hydrology Present? Yes	No 🔀			
Remarks:				
VEGETATION				
To Obstant Alexander		Dominant In		Dominance Test worksheet:
Tree Stratum (Use scientific names.)		Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2. 3.				Total Number of Dominant
4.				Species Across All Strata: (B)
Total Cove	er:			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum	Scripture (
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3.				OBL species x 1 =
4	-			FACW species x 2 =
5				FAC species x 3 = FACU species x 4 =
Herb Stratum	er:			UPL species x 5 =
1. Nordelym 14 grava	60	UCSI	1L	Column Totals: (A) (B)
2. Bromus rubins	_10_	yes u	APL	
3 amsinckia	15	no 1	M	Prevalence Index = B/A =
4. Bi Mulpiai	5_	NO _		Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0¹
7				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	er:			
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present.
	er:			Hydrophytic
% Bare Ground in Herb Stratum % Cove			1.61	Vegetation Present? Yes No
Remarks:				100
2m plot size				
V. 101 3126				

Sampling Point: ______

		confirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %		_oc² Texture Remarks
0-0,5 organic layer	<u>2.51064</u>	muck
0-3 54R4/2 85º/6		Clay Sand, (Concentrations)
0-3 540 1/2.	54R4/6 5 C 1	1 Sochel
0-3	54R 4/4 10 C	1 Clay
3-12 54R 3/1 50%	SIC UT	Cat
	SYD 4/2 25/ D H	1 Sandii I mm
	6140 4/11 25 6	1 Carl
	<u> </u>	
¹ Type: C=Concentration, D=Depletion, RM		ining, RC=Root Channel, M=Matrix.
Hydric Soil Indicators: (Applicable to al		Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Histic Epipedon (A2)	Sandy Redox (S5) Stripped Matrix (S6)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
Black Histic (A3)	Reduced Vertic (F18)	
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Depressions (F8) Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Milleral (S1) Sandy Gleyed Matrix (S4)	Vernal Pools (F9)	wetland hydrology must be present.
Restrictive Layer (if present):	·	l l l l l l l l l l l l l l l l l l l
Type:		\ /
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
HADBOI OCA		
HYDROLOGY Westland Hydrology Indicators:		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:	Ficient	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suf		Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suf Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suftended) Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suftended by Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv 	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
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WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Clinton Keith Extension City/County: RIV	Sampling Date: 4/5/11
Applicant/Owner: RCTD	State: CAA Sampling Point:
Investigator(s): James Goth am Melisa Millam Section, Township, Ra	
Landform (hillslope, terrace, etc.): <u>Avainage lasin</u> Local relief (concave,	
1000	Long: (17.12726) Datum:
N 20 00 100 10 0 11 / 1	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _	
	"Normal Circumstances" present? Yes No
	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point	,
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Is the Sample within a Wetla Remarks:	× 1
VEGETATION	
Absolute Dominant Indicator Tree Stratum (Use scientific names.) % Cover Species? Status	Dominance Test worksheet:
1	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2	
3.	Total Number of Dominant Species Across All Strata: (B)
4	
Total Cover:	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum	Prevalence Index worksheet:
1.	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	FACW species x 2 =
5	FAC species x 3 =
Total Cover:	FACU species x 4 =
Herb Stratum	UPL species x 5 =
2. IN LINDIAN JOS YES NL	Column Totals: (A) (B)
3. PULMBE OVISOUS 5% NO FACE	Prevalence Index = B/A =
4. alaque 25% no	Hydrophytic Vegetation Indicators:
	✓ Dominance Test is >50%
6	Prevalence Index is ≤3.0¹
7	Morphological Adaptations ¹ (Provide supporting
8	data in Remarks or on a separate sheet)
Total Cover:\	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum 1.	¹ Indicators of hydric soil and wetland hydrology must be present.
2	
Total Cover: % Bare Ground in Herb Stratum % Cover of Biotic Crust	Hydrophytic Vegetation Present? Yes No
Remarks:	<u> </u>
2mplotsize.	