

Reach	River Sta	Profile	O Total	Curt Chillen	Min.Ch.El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chril	Flow Area	Top Width	Froude # Chi
	建一大水		(cfs)		(4)	(H)	(H)	(4)	(11011)	(fl/s)	(30 ft)	(4)	
10.00 Sept.	18	PF 1	6100.00	3724.42	1333.10	1338.63	1338.39	1339.41	0.020573	7.07	864.22	405.34	0.85
	17	PP 1	6100.00	3424,42	1329.10	1335.93		1336.29	0.005884	1	-	419.30	0.48
	18	pr 1	6100.00	3124.42	1327.10	1335.00	State of the last	1335.23	0.002212	3.98		437.71	0.32
ACCOUNTS OF	15	PF 1	6100.00	2824.42	1324.10	1334.67	1332.11	1334.77	0.000909	3.09	2421.49	555.12	0.21
	14.5		Culven										
Section 2	14	PF1	6100.00	2749.42	1323.10	1332.17	1332.11	1332.70	0.009699	8.22	1191.21	593.00	0.64
	10	PF 1	6100.00	2114.42	1322.10	1328.47		1328.70	0.004001	4,55	1621.99	601.05	0.41
	6	PF1	6100.00	1814.42	1319.10	1327.55		1327.74	0.002547	4.54	1926.28	683,44	0.35
Tours of the	8	PF1	6100.00	1514.42	1318.00	1327.38		1327.48	0.000405	2.36		470.53	0.15
	7	PF 1	6100.00	1414.42	1317.50	1327.28	1323.90	1327.39	0.001039	2.68	2349.34	590.60	0.22
SHEET AND STREET	9	PF 1	6100.00	1314,42	1317.00	1327,17		1327.29	0.000989	2.82	2164.37	412.55	0.22
	5.5	PF1	6100.00	1221.00	1316.90	(1326.82	1322.79	1327.15	0.001711	4,63	1318.32	490.82	0.30
	5.4		Bridge				1=0.24						
	4.5	pr.1	6100.00	1117.00	1316.80	1326.60	1321.09	1326.83	0:000920	3.84	1587.08	512.77	0.23
	4	PF1	6100.00	1075.00	1316.60	1325,84	1321.86	1326.70	0.004122	7.41	822.69	89.00	0.43
	3,5	10000000000000000000000000000000000000	Culvert										
100 Sept. 1	60	PF1	6100.00	940.00	1316.00	1320.91	1320.91	1323.36	0.021334	12.54	486.32	611.49	1.00
The State of the	2	PP1	6100.00	700.00	1314.50	1320.22		1320.32	0.001221	2.60	2436.47	690.92	0.23
		PF1	6100.00	450.00	1314.00	1319.92		1320.04	0.001086	2.82	2227.44	502.04	0.22
Carlo School	0.5	PF 3	6100.00	150.00	1313.00	1319.35	1318.01	1319.57	0.002480	3.70	1658.60	432.50	0.33
	0.25		Culvert										
\$4000000000000000000000000000000000000	0	pr 1	6100.00		1312.50	1318.19	1317.01	1318.41	0.004003	3.77	1618 92	A7A 1B	0.39

Plan: CK-FVprop&88 Fre	ench Valley Cr 1	RS: 5.4 Profile: PF 1		
E.G. US. (ft)	1327.15	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	1326.82	E.G. Elev (ft)	1327.12	1326.89
Q Total (cfs)	6100.00	W.S. Elev (ft)	1326.64	1326.50
Q Bridge (cfs)	6100.00	Crit W.S. (ft)	1322.98	1321.79
Q Weir (cfs)		Max Chl Dpth (ft)	9.74	9.70
Weir Sta Lft (ft)		Vel Total (ft/s)	5.58	4.99
Weir Sta Rgt (ft)		Flow Area (sq ft)	1092.96	1222.92
Weir Submerg		Froude # Chil	0.37	0.31
Weir Max Depth (ft)		Specif Force (cu ft)	5336.88	6209.08
Min El Weir Flow (ft)	1339.01	Hydr Depth (ft)	7.02	7.93
Min El Prs (ft)	1333.00	W.P. Total (ft)	158.99	158.46
Delta EG (ft)	0.32	Conv. Total (cfs)	117429.1	141928.3
Delta WS (ft)	0.21	Top Width (ft)	155.65	154.16
BR Open Area (sq ft)	2160.25	Frctn Loss (ft)	0.21	0.01
BR Open Vel (ft/s)	5.58	C & E Loss (ft)	0.03	0.05
Coef of Q		Shear Total (lb/sq ft)	1.16	0.89
Br Sel Method	Energy only	Power Total (lb/ft s)	6.46	4.44

Plan: CK-FVprop&88 French Valley Cr 1 RS: 14.5 Culv Group: Culvert #1 Profile: PF 1

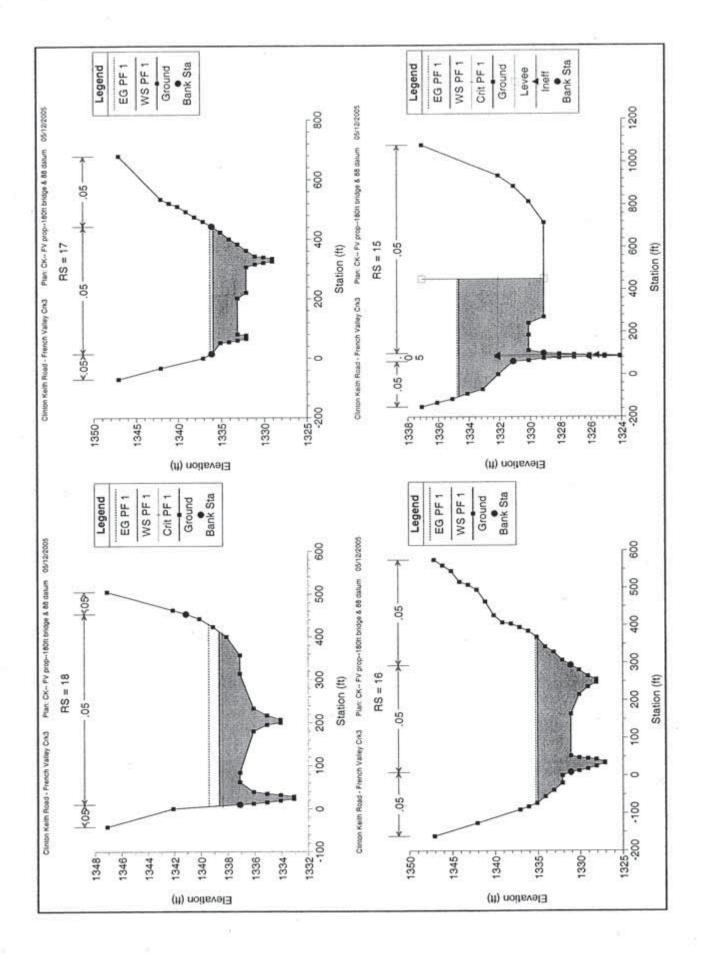
Q Culv Group (cfs)	322.96	Culv Full Len (ft)	60.00
# Barrels	1	Culv Vel US (ft/s)	8.39
Q Barrel (cfs)	322.96	Culv Vel DS (ft/s)	8.39
E.G. US. (ft)	1334.77	Culv Inv El Up (ft)	1324.10
W.S. US. (ft)	1334.67	Culv Inv El Dn (ft)	1324.00
E.G. DS (ft)	1332.70	Culv Fretn Ls (ft)	0.52
W.S. DS (ft)	1332.17	Culv Exit Loss (ft)	0.57
Delta EG (ft)	2.07	Culv Entr Loss (ft)	0.98
Delta WS (ft)	2.49	Q Weir (cfs)	5772.25
E.G. (C (ft)	1334.74	Weir Sta Lft (ft)	-107.81
E.G. OC (ft)	1334.77	Weir Sta Rgt (ft)	450.00
Culvert Control	Outlet	Weir Submerg	0.02
Culv WS Inlet (ft)	1331.10	Weir Max Depth (ft)	2.67
Culv WS Outlet (ft)	1331.00	Weir Avg Depth (ft)	2.48
Culv Nml Depth (ft)		Weir Flow Area (sq ft)	1384.97
Culv Crt Depth (ft)	4.73	Min El Weir Flow (ft)	1332.11

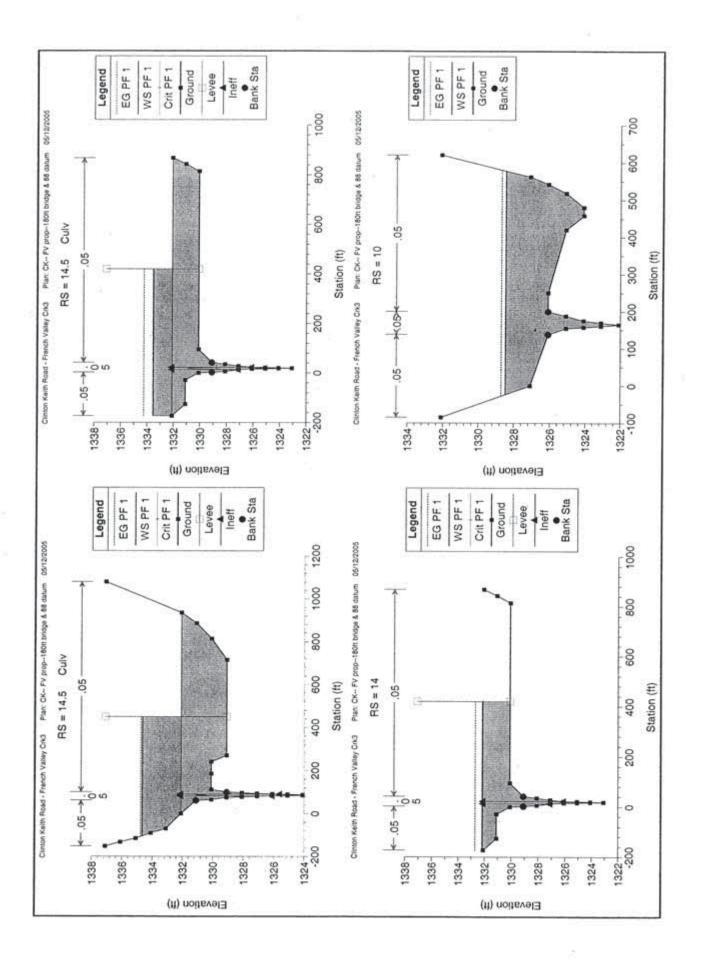
Plan: CK-FVprop&88 French Valley Cr 1 RS: 3.5 Culv Group: Culvert #1 Profile: PF 1

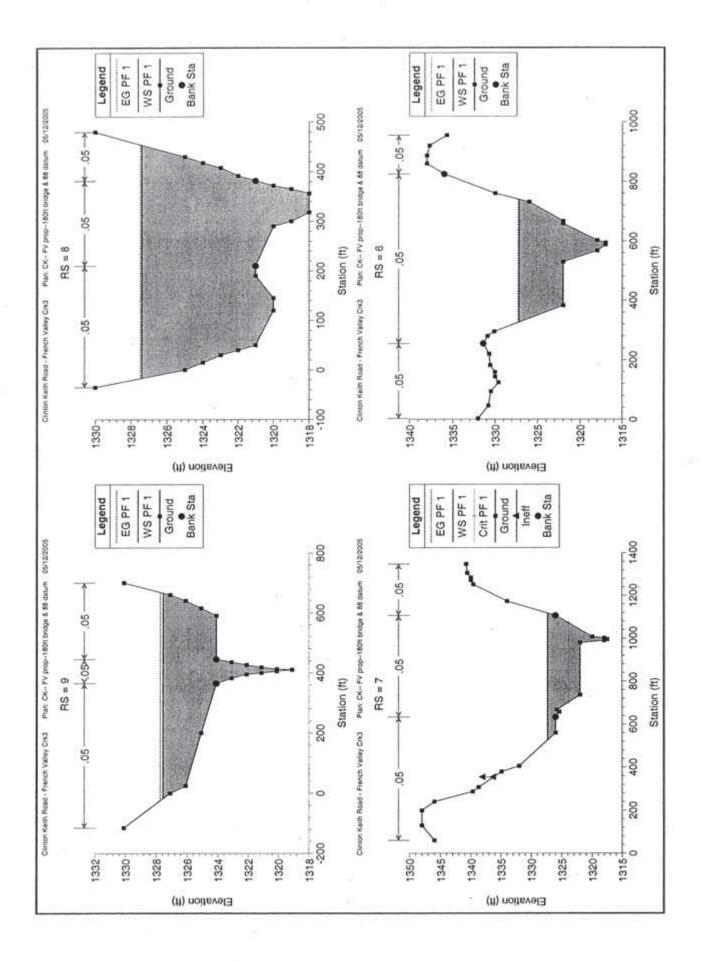
Q Culv Group (cfs)	5787.08	Culv Full Len (ft)	40.00
# Barrels	6	Culv Vel US (ft/s)	13.78
Q Barrel (cfs)	964.51	Culv Vel DS (ft/s)	13.78
E.G. US. (ft)	1326.70	Culy Inv El Up (ft)	1316.60
W.S. US. (ft)	1325.84	Culv Inv El Dn (ft)	1316.40
E.G. DS (ft)	1323.36	Culv Frctn Ls (ft)	0.88
W.S. DS (ft)	1320.91	Culv Exit Loss (ft)	0.99
Delta EG (ft)	3.34	Culv Entr Loss (ft)	1.47
Delta WS (ft)	4.93	Q Weir (cfs)	312.92
E.G. IC (ft)	1326.89	Weir Sta Lft (ft)	0.00
E.G. OC (ft)	1326.70	Weir Sta Rgt (ft)	589.00
Culvert Control	Outlet	Weir Submerg	0.00
Culv WS Inlet (ft)	1321.60	Weir Max Depth (ft)	0.35
Culv WS Outlet (ft)	1321.40	Weir Avg Depth (ft)	0.35
Culv Nml Depth (ft)	5.00	Weir Flow Area (sq ft)	204.34
Culv Crt Depth (ft)	5.00	Min El Weir Flow (ft)	1326.37

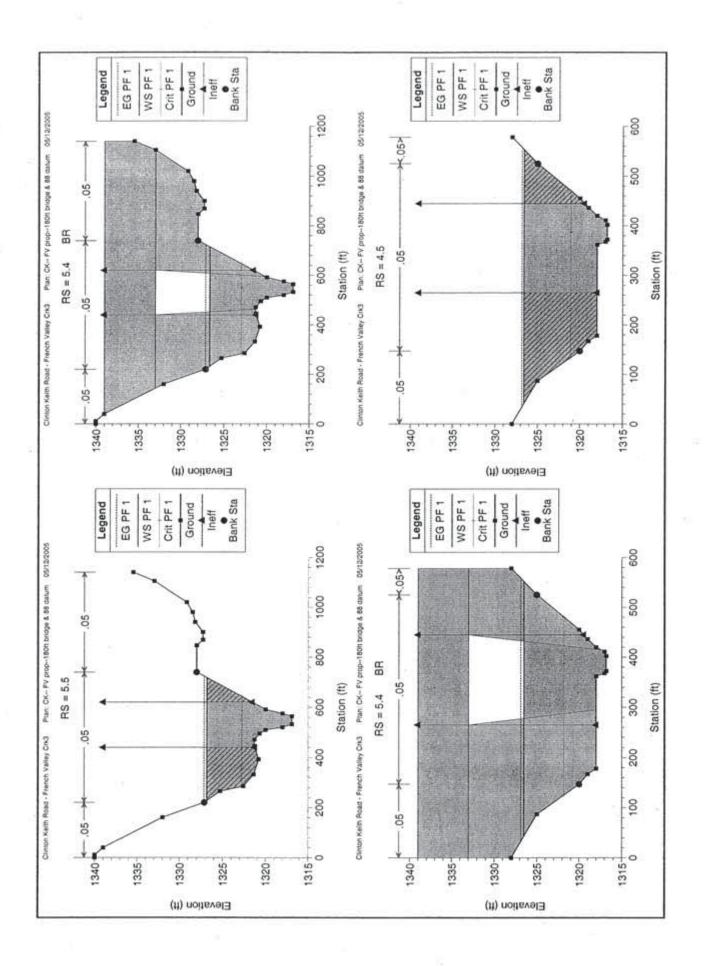
Plan: CK-FVprop&88 French Valley Cr 1 RS: 0.25 Culv Group: Culvert #1 Profile: PF 1

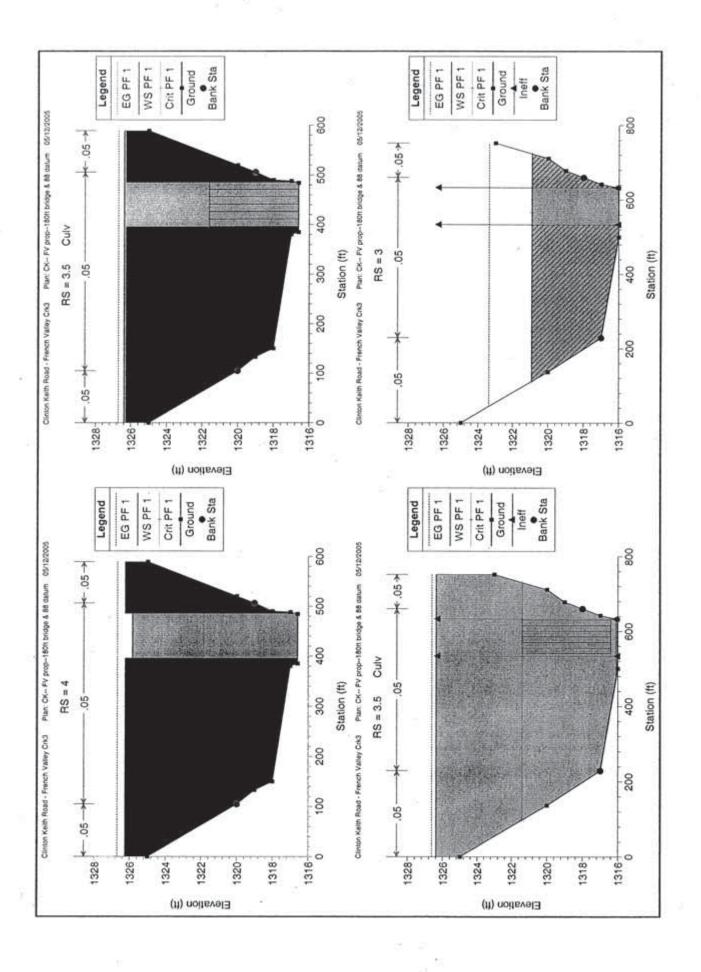
Q Culv Group (cfs)	15.61	Culv Full Len (ft)	40.00
# Barrels	1	Culv Vel US (ft/s)	4.97
Q Barrel (cfs)	15.61	Culv Vel DS (ft/s)	4.97
E.G. US. (ft)	1319.57	Culv Inv El Up (ft)	1313.00
W.S. US. (ft)	1319.35	Culv Inv El Dn (ft)	1312.50
E.G. DS (ft)	1318.41	Cuty Frctn Ls (ft)	0.65
W.S. DS (ft)	1318.19	Culv Exit Loss (ft)	0.16
Delta EG (ft)	1.16	Cuty Entr Loss (ft)	0.35
Delta WS (ft)	1.16	Q Weir (cfs)	6089.09
E.G. IC (ft)	1319.56	Weir Sta Lft (ft)	38.05
E.G. OC (ft)	1319.57	Weir Sta Rgt (ft)	475.68
Culvert Control	Outlet	Weir Submerg	0.57
Culv WS Inlet (ft)	1315.00	Weir Max Depth (ft)	3.57
Culv WS Outlet (ft)	1314.50	Weir Avg Depth (ft)	3.00
Culv Nml Depth (ft)		Weir Flow Area (sq ft)	1311.90
Culv Crt Depth (ft)	1.42	Min El Weir Flow (ft)	1316.01

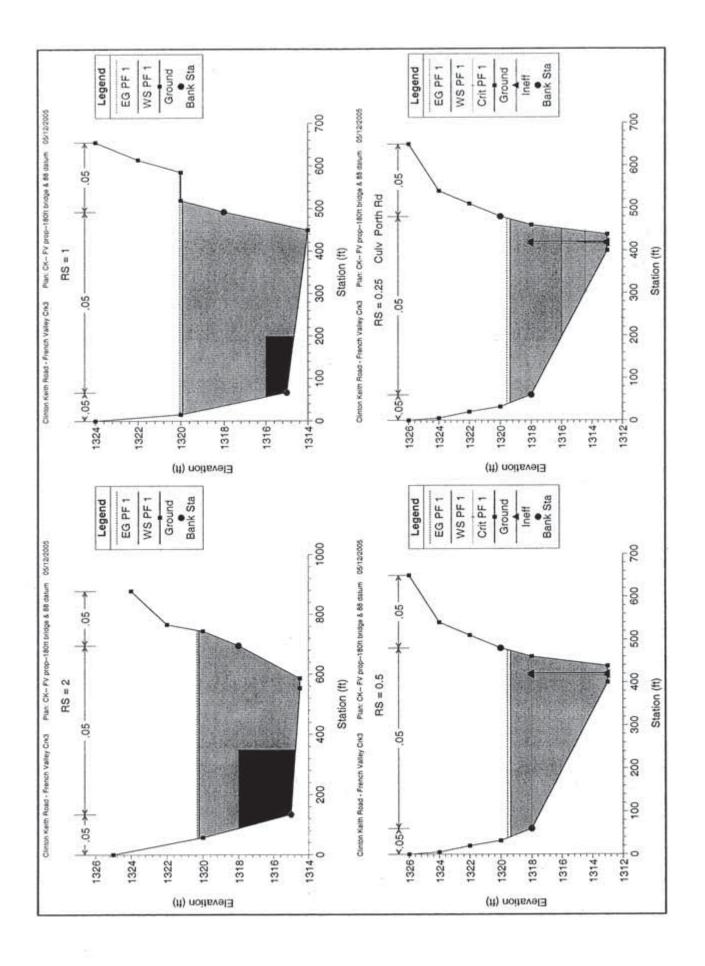


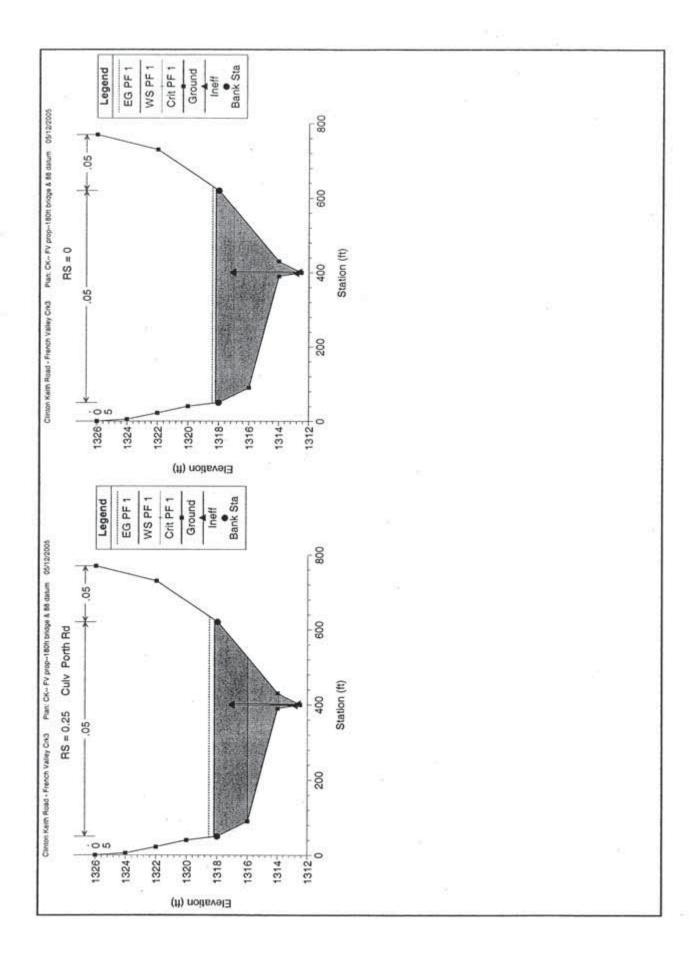




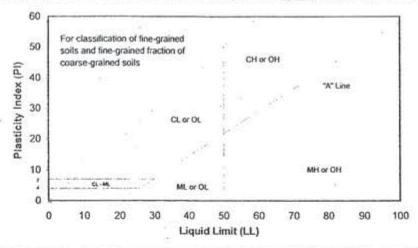








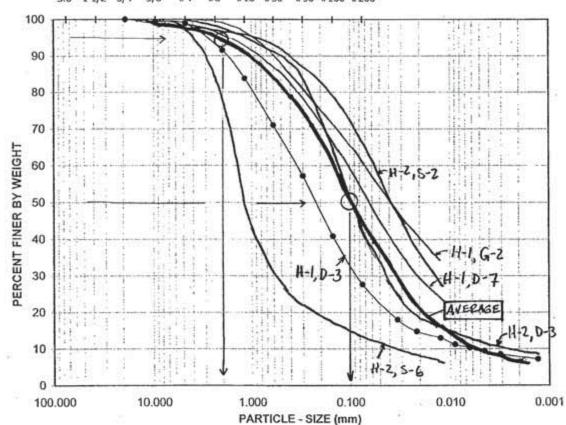
APPENDIX D Scour Calculations and Slope Protection



stris	GRA	VEL		SAND		FINES	
	COARSE	FINE	CRSE	MEDIUM	FINE	SILT	CLAY

U.S. STANDARD SIEVE OPENING
3.0" 1 1/2" 3/4" 3/8" #4 #8 #16 #30 #50 #100 #200

HYDROMETER



Boring No.:	Sample No.:	Depth (ft.):	Soil Type	GR:SA:FI	LL,PL,PI
H-1	D-3	10-11.5	SM	1:71:28	NA,,

Soil Description: Yellowish brown silty sand (SM)

Teratest Labs, Inc.

ATTERBERG LIMITS, PARTICLE - SIZE CURVE ASTM D 4318, D 422 Project No.:

171364.T2.02.01

Clinton Keith (CK) Rd. Expansion

02-04

Warm Springs CK

Contraction Sco	ur	1000	Charact	Distri
Input Data		Left	Channel	Right
input Data	Average Depth (ft):		4.17	
	Approach Velocity (ft/s):		5.22	
	Br Average Depth (ft):		5.01	
	BR Opening Flow (cfs):		6600.00	
	BR Top WD (ft):		195.13	
	Grain Size D50 (mm):		0.10	
	Approach Flow (cfs):		6600.00	
	Approach Top WD (ft):		303.20	
	K1 Coefficient:		0.590	
Results	Ki Odemolett.		0.590	
riesuns	Scour Depth Ys (ft):		0.40	
	Critical Velocity (ft/s):		0.98	
	Equation:		Live	
Pier Scour	All piers have the same scour depth			
Input Data	All piets have the same scoul deput			
	Pier Shape:	Circulare cylinde	er	
	Pier Width (ft):	(8.50)		
	Grain Size D50 (mm):	0.10000	1.5	CIDH + 1 debris
	Depth Upstream (ft):	9.17		
	Velocity Upstream (ft/s):	7.42		
	K1 Nose Shape:	1.00		
	Pier Angle:	10.00		
	Pier Length (ft):	32.00		
	K2 Angle Coef:	1.33		62
	K3 Bed Cond Coef:	1.10		
	Grain Size D90 (mm):	2.00000		
	K4 Armouring Coef:	1.00		
	Set K1 value to 1.0 because angle > 5 degrees	10.00		
Results	Editor Hardinan			
	Scour Depth Ys (ft):	17.80		
	Froude #:	0.43		
	Equation:	CSU equation		
Abutment Scour				
ADDITION SCOU		Left	Right	
Input Data		2000	1000000	
	Station at Toe (ft):	407.54	612,51	
	Toe Sta at appr (ft):	582.82	613.28	
	Abutment Length (ft):	0.00	0.00	
	Depth at Toe (ft):	1.07	2.66	
	K1 Shape Coef:	0.55 - Spill-throu	igh abutmen	t.
	Degree of Skew (degrees):	75.00	105.00	
	K2 Skew Coef:	0.98	1.02	34
	Projected Length L' (ft):	10.00	20.00	
	Avg Depth Obstructed Ya (ft):	0.5	1.5	
	Flow Obstructed Qe (cfs):	86	407	
	Area Obstructed Ae (sq ft):	16.5	78	
Results	11 AL AND DESCRIPTION OF SERVICE STATE STA	A21776	5753	
THE PARTY	Scour Depth Ys (ft):	3.10	6.39	
	2-2-2-17 A 2077 C A 3 4 4 4 4 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5	CHARLES IN	12/12/19/6	

 Qe/Ae = Ve:
 5.21
 5.22

 Froude #:
 1.30
 0.75

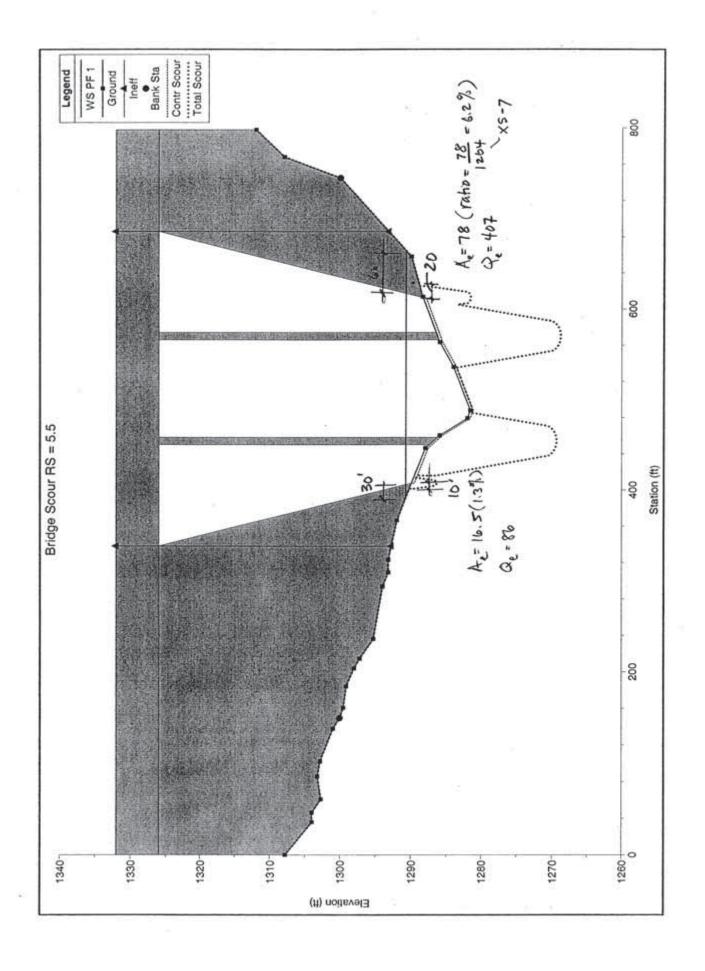
 Equation:
 Froehlich
 Froehlich

Combined Scour Depths

Pier Scour + Contraction Scour (ft):

Channel: 18.20

Left abutment scour + contraction scour (ft): 3.50
Right abutment scour + contraction scour (ft): 6.78

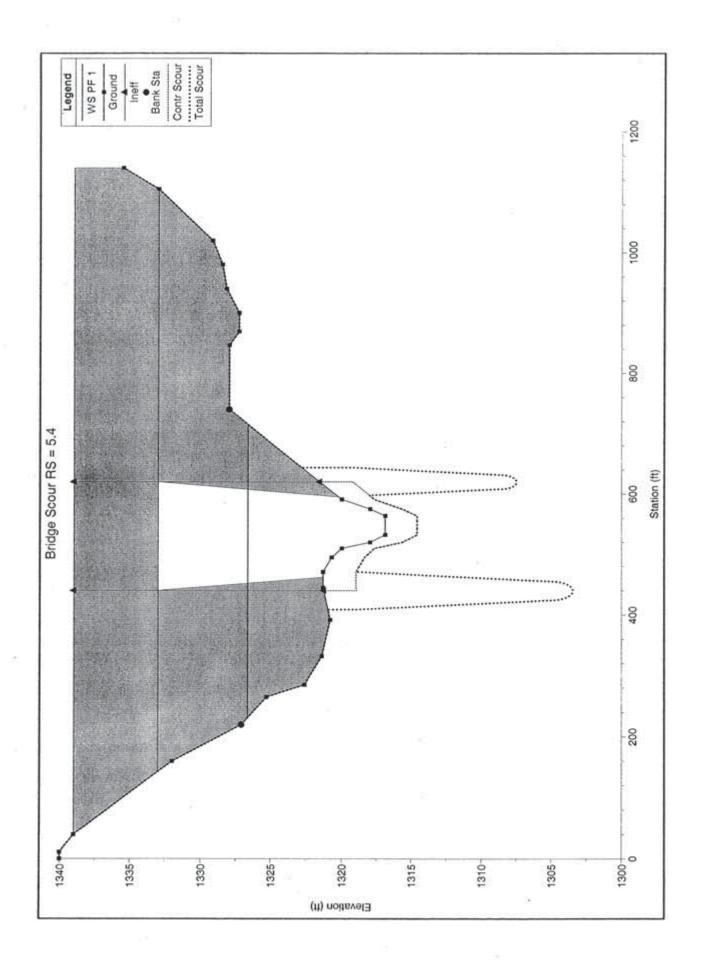


French Valley

Contraction Sco	our J			
COMPACTION CO.		Left	Channel	Right
Input Data				
of the	Average Depth (ft):		5.25	
	Approach Velocity (ft/s):		2.82	
	Br Average Depth (ft):		7.02	
	BR Opening Flow (cfs):		6100.00	
	BR Top WD (ft):		155.65	
	Grain Size D50 (mm):		0.10	
	Approach Flow (cfs):		6100.00	
	Approach Top WD (ft):		412.55	
	K1 Coefficient:		0.590	
Results				
	Scour Depth Ys (ft):		2.31	
	Critical Velocity (ft/s):		1.02	
	Equation:		Live	2.5
Abutment Scou	ir 🤆			
		Left	Right	
nput Data				
	Station at Toe (ft):	440.00	620.00	
	Toe Sta at appr (ft):	383.00	666.00	
	Abutment Length (ft):	0.00	0.00	
	Depth at Toe (ft):	5.56	5.26	
	K1 Shape Coef:	0.55 - Spill-the	rough abutment	
	Degree of Skew (degrees):	90.00	90.00	
	K2 Skew Coef:	1.00	1.00	
	Projected Length L' (ft):	70	50	
	Avg Depth Obstructed Ya (ft):	5	3.5	
	Flow Obstructed Qe (cfs):	1620	810	
	Area Obstructed Ae (sq ft):	350	175	
Results				
	Scour Depth Ys (ft):	15.50	11.76	
	Qe/Ae = Ve:	4.63	4.63	
	Froude #:	0.36	0.44	
	Equation:	Froehlich	Froehlich	
Combined Sco	ur Depths			
		47.04		

Left abutment scour + contraction scour (ft): Right abutment scour + contraction scour (ft): 17.81

14.07



Chiton Keith Extension -Slope protection

of DATE 5/12/05

HEC-23 (March, 2001) and edition P. DG8.9

V = 6.75 f/s (WS worst)

Y= 7.02 ft

F= 0,45 < 0,8

 $\frac{D_{50}}{y} = \frac{K}{(s_{s-1})} \left[\frac{V^2}{gy} \right]$

(8.2)

K = 0.89 for Spill-thru abutment

 $D_{50} = 7.02 \times \left[\frac{0.89}{1.65} \times 0.45^2 \right] S_5 = 165 \frac{16}{16} \frac{16}{162.4} = 2.65$

= 0.8 #

Door = 1.5 Doo = 1.2 H or 14" - mm 34# use Facing Rock

Thickness 20 H

Appendix B – 401 Permit for Previously Defined West Portion of Proposed Project



California Regional Water Quality Control Board

San Diego Region

Over 50 Years Serving San Diego, Orange, and Riverside Counties Recipient of the 2004 Environmental Award for Outstanding Achievement from USEPA

Arnold Schwarzenegger Governor

Linda S. Adams Secretary for Environmental Protection

9174 Sky Park Court, Suite 100, San Diego, California 92123-4353 (858) 467-2952 • Fax (858) 571-6972 http://www.waterboards.ca.gov/sandiego

February 11, 2010

Laurie Dobson Correa Riverside County Transportation Department 4080 Lemon Street, 8th Floor Riverside, CA 92502

Certified Mail - Return Receipt Requested Article Number: 7009 1410 0002 2347 4091

In reply refer to: 708506: cloflen

Dear Ms. Correa:

Subject: Action on Request for Clean Water Act Section 401 Water Quality Certification for the Clinton Keith Road Extension Project West Water Quality Certification No. 07C-110

Enclosed find Clean Water Act Section 401 Water Quality Certification for discharge to Waters of the U.S. and acknowledgment of enrollment under State Water Resources Control Board Order No. 2003-017 DWQ for the Clinton Keith Road Extension Project West (project). A description of the project and project location can be found in the project information sheet, location maps, and site maps, which are included as attachments.

Any petition for reconsideration of the Certification must be filed with the State Water Resources Control Board within 30 days of certification action (23 CCR § 3867). If no petition is received, it will be assumed that you have accepted and will comply with all the conditions of the Certification.

Failure to comply with all conditions of the Certification may subject you to enforcement actions by the California Regional Water Quality Control Board, San Diego Region, including administrative enforcement orders requiring you to cease and desist from violations, or to clean up waste and abate existing or threatened conditions of pollution or nuisance; administrative civil liability in amounts of up to \$5,000 per day per violation; referral to the State Attorney General for injunctive relief; and, referral to the District Attorney for criminal prosecution.

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In the subject line of any response, please include the requested "In reply refer to:" information located in the heading of this letter. For questions pertaining to the subject matter, please contact Chad Loflen at (858) 467-2727 or cloflen@waterboards.ca.gov.

Respectfully,

James G. Sm, th, AEO DAVID W. GIBSON Executive Officer

Enclosures:

Clean Water Act Section 401 Water Quality Certification No. 07C-110 for the Clinton Keith Road Extension Project West, with attachments

cc: Refer to Attachment 2 of Certification 7C-110 for E-mail Distribution List.

Tech Staff Info & Use			
File No.	07C-110		
WDID	9000001725		
Reg. Measure ID	337628		
Place ID	708506		
Party ID	366229		



California Regional Water Quality Control Board

San Diego Region

Linda S. Adams Secretary for Environmental Protection

Over 50 Years Serving San Diego, Orange, and Riverside Counties Recipient of the 2004 Environmental Award for Outstanding Achievement from USEPA Arnold Schwarzenegger Governor

9174 Sky Park Court, Suite 100, San Diego, California 92123-4340 (858) 467-2952 • Fax (858) 571-6972 http://www.waterboards.ca.gov/sandiego

Action on Request for Clean Water Act Section 401 Water Quality Certification and Waste Discharge Requirements for Discharge of Dredged and/or Fill Materials

PROJECT:

Clinton Keith Road Extension Project West,

Certification Number (07C-110)

WDID: 9 000001725

CIWQS

Reg. Meas. ID: 337628 Place ID: 708506 Party ID: 366229

APPLICANT: Laurie Dobson Correa

Riverside County Transportation Department

4080 Lemon Street, 8th Floor

Riverside, CA 92502

ACTION:

☐ Order for Low Impact Certification	☐ Order for Denial of Certification
☑ Order for Technically-conditioned Certification	☐ Waiver of Waste Discharge Requirements
☑ Enrollment in SWRCB GWDR Order No. 2003-017 DWQ	☐ Enrollment in Isolated Waters Order No. 2004-004 DWQ

PROJECT DESCRIPTION:

The project is a portion of the extension, widening, and re-alignment of Clinton Keith Road from the Interstate 215 to State Route 79 in Riverside County. The project will extend the western portion of Clinton Keith from I-215 to Liberty Lane. The western extension of Clinton Keith requires the placement of a bridge over Warm Springs Creek, as well as the placement of larger culverts at Drainages A and B, which in total would result in permanent impacts of 0.31 acres (1,850 linear feet) and temporary impacts of 0.01 acres (360 linear feet) to non-wetland waters of the United States.

STANDARD CONDITIONS:

The following three standard conditions apply to all Certification actions, except as noted under Condition 3 for denials (Action 3).

1. This Certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to

California Environmental Protection Agency

- section 13330 of the California Water Code and section 3867 of Title 23 of the California Code of Regulations (23 CCR).
- 2. This Certification action is not intended and must not be construed to apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent Certification application was filed pursuant to 23 CCR subsection 3855(b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
- 3. The validity of any non-denial Certification action (Actions 1 and 2) must be conditioned upon total payment of the full fee required under 23 CCR section 3833, unless otherwise stated in writing by the certifying agency.

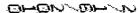
ADDITIONAL CONDITIONS:

In addition to the three standard conditions, the Riverside County Transportation Department must satisfy the following:

A. GENERAL CONDITIONS:

- 1. The Riverside County Transportation Department must, at all times, fully comply with the engineering plans, specifications and technical reports submitted to the California Regional Water Quality Control Board, San Diego Region (Regional Board), to support this 401 Water Quality Certification (Certification) and all subsequent submittals required as part of this Certification and as described in Attachment 1. The conditions within this Certification must supersede conflicting provisions within such plans submitted prior to the Certification action. Any modifications thereto, would require notification to the Regional Board and reevaluation for individual Waste Discharge Requirements and/or Certification amendment.
- 2. During construction, the Riverside County Transportation Department must maintain a copy of this Certification at the project site so as to be available at all times to site personnel and agencies.
- 3. The Riverside County Transportation Department must permit the Regional Board or its authorized representative at all times, upon presentation of credentials:
 - a. Entry onto project premises, including all areas on which wetland fill or wetland mitigation is located or in which records are kept.
 - b. Access to copy any records required to be kept under the terms and conditions of this Certification.

- c. Inspection of any treatment equipment, monitoring equipment, or monitoring method required by this Certification.
- d. Sampling of any discharge or surface water covered by this Order.
- 4. The Riverside County Transportation Department must notify the Regional Board within **24 hours** of any unauthorized discharge, including hazardous or toxic materials, to waters of the U.S. and/or State; measures that were implemented to stop and contain the discharge; measures implemented to clean-up the discharge; the volume and type of materials discharged and recovered; and additional best management practice (BMPs) or other measures that will be implemented to prevent future discharges.
- 5. The Riverside County Transportation Department must, at all times, maintain appropriate types and sufficient quantities of materials onsite to contain any spill or inadvertent release of materials that may cause a condition of pollution or nuisance if the materials reach waters of the U.S. and/or State.
- 6. This Certification is not transferable in its entirety or in part to any person except after notice to the Executive Officer of the Regional Board in accordance with the following terms.
 - a. Transfer of Property Ownership: The Riverside County Transportation Department must notify the Regional Board of any change in ownership of the project area. Notification of change in ownership must include, but not be limited to, a statement that the Riverside County Transportation Department has provided the purchaser with a copy of the Section 401 Water Quality Certification and that the purchaser understands and accepts the certification requirements and the obligation to implement them or be subject to liability for failure to do so; the seller and purchaser must sign and date the notification and provide such notification to the Executive officer of the Regional Board within 10 days of the transfer of ownership.
 - b. Transfer of Mitigation Responsibility: Any notification of transfer of responsibilities to satisfy the mitigation requirements set forth in Section D shall include a signed statement from an authorized representative of the new party (transferee) demonstrating acceptance and understanding of the responsibility to comply with and fully satisfy the mitigation conditions and agreement that failure to comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the Regional Board under Water Code section 13385, subdivision (a). Notification of transfer of responsibilities meeting the above conditions must be provided to the Regional Board within **10 days** of the transfer date.



- 7. In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation must be subject to any remedies, penalties, process or sanctions as provided for under State law. For purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.
- 8. In response to a suspected violation of any condition of this Certification, the Regional Board may require the holder of any permit or license subject to this Certification to furnish, under penalty of perjury, any technical or monitoring reports the Regional Board deems appropriate, provided that the burden, including costs, of the reports must bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports.
- 9. In response to any violation or threatened violation of the conditions of this Certification, the Regional Board may add to or modify the conditions of this Certification as appropriate to ensure compliance.
- 10. The Riverside County Transportation Department and successor owners must submit annual progress reports describing status of compliance with all requirements of this Certification to the Regional Board prior to **August 1** of each year following the issuance of this Certification until the project has reached completion. The Riverside County Transportation Department may submit a joint annual progress report with 401 Certification No. 07C-109.

B. PROJECT CONDITIONS:

- 1. Prior to the start of the project, and annually thereafter, the Riverside County Transportation Department must educate all personnel on the requirements in this Certification, pollution prevention measures, spill response, and BMP implementation and maintenance.
- 2. The Riverside County Transportation Department must comply with the requirements of State Water Resources Control Board Water Quality Order No. 2003-0017-DWQ, Statewide General Waste Discharge Requirements for discharges of dredged or fill material that have received State Water Quality Certification. These General Waste Discharge Requirement are accessible at:
 - http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/general orders/go wdr401regulated_projects.pdf.
- 3. The Riverside County Transportation Department must notify the Regional Board in writing at least **5 days** prior to the actual commencement of dredge.

fill, and discharge activities.

- 4. The Riverside County Transportation Department must comply with the requirements of State Water Resources Control Board Water Quality Order No. 99-08-DWQ, and any subsequent re-issuance, the NPDES General Permit for Storm Water Discharges Associated with Construction Activity.
- 5. The treatment, storage, and disposal of wastewater during the life of the project must be done in accordance with waste discharge requirements established by the Regional Board pursuant to CWC § 13260.
- 6. Discharges of concentrated flow during construction or after completion must not cause downstream erosion or damage to properties or stream habitat.
- 7. Water containing mud, silt, or other pollutants from equipment washing or other activities, must not be discharged to waters of the United States and/or the State or placed in locations that may be subjected to storm flows. Pollutants discharged to areas within a stream diversion area must be removed at the end of each work day or sooner if rain is predicted.
- 8. All surface waters, including ponded waters, must be diverted away from areas undergoing grading, construction, excavation, vegetation removal, and/or any other activity which may result in a discharge to the receiving water. Diversion activities must not result in the degradation of beneficial uses or exceedance of water quality objectives of the receiving waters. Any temporary dam or other artificial obstruction constructed must only be built from materials such as clean gravel which will cause little or no siltation. Normal flows must be restored to the affected stream immediately upon completion of work at that location.
- 9. Substances hazardous to aquatic life including, but not limited to, petroleum products, raw cement/concrete, asphalt, and coating materials, must be prevented from contaminating the soil and/or entering waters of the United States and/or State. BMPs must be implemented to prevent such discharges during each project activity involving hazardous materials.
- 10. Removal of vegetation must occur by hand, mechanically, or using EPA approved herbicides deployed using applicable BMPs to prevent impacts to Beneficial Uses of waters of the State. Removal of vegetation must occur outside of the avian nesting season (March 15- August 31).

C. POST CONSTRUCTION STORM WATER MANAGEMENT

 All storm drain inlet structures within the project boundaries must be stamped and/or stenciled (or equivalent) with appropriate language prohibiting non-constorm water discharges. 2. All post-construction BMPs, including those described in the Final Project Specific Water Quality Management Plan for the Clinton Keith Road Extension from Antelope Road to French Valley Creek prepared by CH2MHill and dated March, 2009, must be sized to comply with the following numeric sizing criteria:

a.Volume

Volume-based BMPs must be designed to mitigate (infiltrate, filter, or treat) either:

- i. The volume of runoff produced from a 24-hour 85th percentile storm event, as determined from the local historical rainfall record (0.6 inch approximate average for the San Diego County area); or
- ii. The volume of runoff, as determined from the local historical rainfall record, that achieves approximately the same reduction in pollutant loads and flows as achieved by mitigation of the 85th percentile 24-hour runoff event; or

b.Flow

Flow-based BMPs must be designed to mitigate (infiltrate, filter, or treat) either:

- i. The maximum flow rate of runoff produced from a rainfall intensity of 0.2 inch of rainfall per hour; or
- ii. The maximum flow rate of runoff produced by the 85th percentile hourly rainfall intensity, as determined from the local historical rainfall record, multiplied by a factor of two; or
- iii. The maximum flow rate of runoff, as determined from the same reduction in pollutant loads and flows as achieved by mitigation of the 85th percentile hourly rainfall intensity multiplied by a factor of two.
- 3. Post-construction BMPs must be installed and functional prior to roadway use.
- 4. The Riverside County Transportation Department must install biofiltration catch basin units with a medium to high removal efficiency for 303(d) listed pollutants for all storm drain catch basins on the portion of the site as described in the Final Project Specific Water Quality Management Plan for the Clinton Keith Road Extension from Antelope Road to French Valley Creek.
- 5. All post-construction structural BMPs, including, but not limited to, the vegetated extended detention basin and biofiltration catch basin units, must be regularly inspected and maintained by the Riverside County Transportation Department or their designated party for the life of the project per the manufacturers' specifications.

- 6. Treatment BMPs must be inspected prior to the commencement of the rainy season (October 1) and after every storm event exceeding 0.5 inches of precipitation.
- 7. Records must be kept regarding inspections and maintenance in order to assess the performance of the systems and determine whether adaptations are necessary to protect receiving waters.
- 8. The Riverside County Transportation Department, assumes responsibility for the inspection and maintenance of all post-construction structural BMPs until such responsibility is legally transferred to another entity.
- 9. At the time maintenance responsibility for post-construction BMPs is legally transferred, the Riverside County Transportation Department must submit to the Regional Board a copy of such documentation.
- 10. At the time maintenance responsibility for post-construction BMPs is legally transferred, the Riverside County Transportation Department must provide the transferee with a copy of a long-term BMP maintenance plan that complies with manufacturer specifications.

D. COMPENSATORY MITIGATION FOR LOSS OF WATERS OF THE U.S./STATE

- 1. Mitigation for permanent discharges to 0.31 acres (1,850 linear feet) of non-wetland waters of the United States and temporary discharges to 0.01 acres (360 linear feet) of non-wetland waters of the United States must occur as follows and as described in the Clinton Keith Road Extension Habitat Mitigation and Monitoring Plan, dated November 10, 2008:
 - a. Through the on-site self-establishment of 2,211 linear feet (0.31 acres) of non-wetland waters of the United States.
- 2. The Riverside County Transportation Department must submit a Final Enhancement and Mitigation Plan **prior to commencement of** Project construction.
- 3. The Riverside County Transportation Department must restore all areas of temporary impacts and all other areas of temporary disturbance which could result in a discharge or a threatened discharge to waters of the United States/State. Restoration must include grading of disturbed areas to preproject contours and revegetation with native species. The Riverside County Transportation Department must implement all necessary BMPs to control erosion and runoff from areas associated with this project.
- 4. **Prior to the start of construction**, the Riverside County Transportation

(e.g. deed restriction, conservation easement, etc.) that will protect all mitigation areas and their buffers in perpetuity. Within one year of the start of construction, the Riverside County Transportation Department must submit proof of a completed preservation mechanism that will protect all mitigation areas and their buffers in perpetuity. The conservation easement, deed restriction, or other legal limitation on the mitigation property must be adequate to demonstrate that the site will be maintained without future development or encroachment on the site which could otherwise reduce the functions and values of the site for the variety of beneficial uses of waters of the U.S. that it supports. The legal limitation must prohibit, without exception, all residential, commercial, industrial, institutional, and transportation development, and any other infrastructure development that would not maintain or enhance the wetland and streambed functions and values of the site. The preservation mechanism must clearly prohibit activities that would result in soil disturbance or vegetation removal, other than the removal of non-native vegetation. Other infrastructure development to be prohibited includes, but is not limited to, additional utility lines, maintenance roads, and areas of maintained landscaping for recreation.

- 5. The Riverside County Transportation Department must notify the Regional Board in writing at least **5 days** prior to the actual commencement of mitigation installation, and completion of mitigation installation.
- 6. Mitigation Site Preparation: The Riverside County Transportation Department must salvage leaf litter, coarse woody debris, and upper soil horizons from impacted jurisdictional water sites that are relatively free of invasive exotic species for use in on-site mitigation areas.
- 7. The Riverside County Transportation Department must also salvage large cuttings from appropriate tree species if they exist at the impact site and use them as pole plantings at the mitigation site.
- 8. The Riverside County Transportation Department must submit a report (including topography maps and planting locations) to the Regional Board within **90 days** of completion of mitigation site preparation and planting, describing as-built status of the mitigation project.
- 9. The construction of proposed mitigation must be concurrent with project grading and completed no later than 9 months following the initial discharge of dredge or fill material into on-site waters. Delays in implementing mitigation must be compensated for by an increased mitigation implementation of 10 percent of the cumulative compensatory mitigation for each month of delay.
- 10. Throughout the mitigation monitoring program mitigation areas must be maintained free of perennial exotic plant species including, but not limited to,

- pampas grass, giant reed, tamarisk, sweet fennel, tree tobacco, castor bean, and pepper tree. Annual exotic plant species must not occupy more than 5 percent of the onsite or offsite mitigation areas.
- 11. Regional Board acceptance of the mitigation plan applies only to the site and plan that mitigates for the Clinton Keith Road Extension West project and must not be construed as approval of the mitigation site or plan for use by other current or future projects that are planning to use the Project site for mitigation.
- 12. If at any time during the implementation and establishment of the mitigation area(s), and prior to verification of meeting success criteria, a catastrophic natural event (e.g., fire, flood) occurs and impacts the mitigation area, the Riverside County Transportation Department is responsible for repair and replanting of the damaged area(s).
- 13. Mitigation monitoring reports must be submitted annually until mitigation has been deemed successful. Annual monitoring reports must be submitted prior to **December 1** of each year. The Riverside County Transportation Department may submit a joint annual monitoring report with 401 Certification No. 07C-109. Monitoring reports must include, but not be limited to, the following:
 - a. Names, qualifications, and affiliations of the persons contributing to the report;
 - b. Tables presenting the raw data collected in the field as well as analyses of the physical and biological data, including at a minimum;
 - c. Topographic complexity characteristics at each mitigation site;
 - d. Upstream and downstream habitat and hydrologic connectivity;
 - e. Source of hydrology;
 - f. Width of native vegetation buffer around the entire mitigation site;
 - g. Qualitative and quantitative comparisons of current mitigation conditions with pre-construction conditions and previous mitigation monitoring results:
 - h. Photodocumentation from established reference points:
 - i. A Survey report documenting boundaries of mitigation area; and
 - i. Other items specified in the final mitigation and monitoring plan.
- 14. In the event that the proposed mitigation does not obtain the 5th year success criteria as described in Table 7 in the Clinton Keith Road Extension Habitat Mitigation and Monitoring Plan, dated November 10, 2008, the applicants shall provide the RWQCB with a technical report detailing the actions that will be taken to bring the mitigation up to the success criteria. This report shall also provide an evaluation of alternative mitigation opportunities within the Murrieta Hydrologic Area to be utilized for additional mitigation, if portions the required mitigation are unsuccessful after five years.

- 15. For the purpose of determining mitigation credit for the removal of exotic/invasive plant species, only the actual area occupied by exotic/invasive plant species must be quantified to comply with mitigation requirements.
- 16. For purposes of this Certification, establishment is defined as the creation of vegetated or unvegetated waters of the U.S./State where the resource has never previously existed (e.g. conversion of nonnative grassland to a freshwater marsh). Restoration is divided into two activities, re-establishment and rehabilitation. Re-establishment is defined as the return of natural/historic functions to a site where vegetated or unvegetated waters of the U.S./State previously existed (e.g., removal of fill material to restore a drainage). Rehabilitation is defined as the improvement of the general suite of functions of degraded vegetated or unvegetated waters of the U.S./State (e.g., removal of a heavy infestation or monoculture of exotic plant species from jurisdictional areas and replacing with native species). Enhancement is defined as the improvement to one or two functions of existing vegetated or unvegetated waters of the U.S./State (e.g., removal of small patches of exotic plant species from an area containing predominantly natural plant species). Preservation is defined as the acquisition and legal protection from future impacts in perpetuity of existing vegetated or unvegetated waters of the U.S./State (e.g., conservation easement).

E. S TREAM PHOTO DOCUMENTATION PROCEDURE

1. The Riverside County Transportation Department, and its successors, must conduct photo documentation of the project site, including all areas of permanent and temporary impact, prior to and after project construction, and mitigation areas, including all areas of permanent and temporary impact, prior to and after project construction. Photo documentation must be conducted in accordance with the State Water Resources Control Board Standard Operating Procedure 4.2.1.4: Stream Photo Documentation Procedure, included as Attachment Number (7). In addition, photo documentation must include Geographic Positioning System (GPS) coordinates for each of the photo points referenced. The Riverside County Transportation Department must submit this information in a photo documentation report to the Regional Board with the Mitigation and Monitoring reports (see Condition D.13). The report must include a compact disc that contains digital files of all the photos (jpeg file type or similar).

F. POST-CONSTRUCTION BEST MANAGEMENT PRACTICES PHOTO DOCUMENTATION PROCEDURE

1. The Riverside County Transportation Department must conduct photo documentation of implemented post-construction BMPs. Photo-documentation must be modeled after the State Water Resources Control

Board Standard Operating Procedure 4.2.1.4: Stream Photo Documentation Procedure, included as Attachment 6. In addition, photo documentation must include Global Positioning System (GPS) coordinates for each of the photo points referenced. The Riverside County Transportation Department must submit this information in a photo documentation report to the Regional Board with the **Final Project Annual Report (see Condition A.10)**. The report must include a compact disc that contains digital files of all the photos (jpeg file type or similar).

G. GEOGRAPHIC INFORMATION SYSTEM REPORTING

1. The Riverside County Transportation Department must submit Geographic Information System (GIS) shape files of the impact and mitigation areas within first Mitigation and Monitoring Report (see Condition D.12) following mitigation installation. All impact and mitigation areas shapefiles must be polygons. Two GPS readings (points) must be taken on each line of the polygon and the polygon must have a minimum of 10 points. GIS metadata must also be submitted.

H. REPORTING:

- 1. All information requested in this Certification is pursuant to California Water Code (CWC) section 13267. Civil liability may be administratively imposed by the Regional Board for failure to furnish requested information pursuant to CWC section 13268.
- 2. All reports and information submitted to the Regional Board must be submitted in both hardcopy and electronic format. The preferred electronic format for each report submission is one file in PDF format that is also Optical Character Recognition (OCR) capable.
- 3. The Riverside County Transportation Department must submit a report to the Regional Board within **the Final Project Annual Report (see Condition A.10)** of completion of the project. The report should include as-built drawings no bigger than 11" x 17" and photos of the completed project.
- 4. All applications, reports, or information submitted to the Regional Board must be signed and certified as follows:
 - a. For a corporation, by a responsible corporate officer of at least the level of vice president.
 - b. For a partnership or sole proprietorship, by a general partner or proprietor, respectively.
 - c. For a municipality, or a state, federal, or other public agency, by either a principal executive officer or ranking elected official.

- 5. A duly authorized representative of a person designated in Items 4.a. through 4.c. above may sign documents if:
 - a. The authorization is made in writing by a person described in Items 4.a. through 4.c. above.
 - b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity.
 - c. The written authorization is submitted to the Regional Board Executive Officer.
- 6. All applications, reports, or information submitted to the Regional Board must be signed and certified as follows:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

7. The Riverside County Transportation Department must submit reports required under this Certification, or other information required by the Regional Board, to:

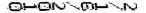
Executive Officer
California Regional Water Quality Control Board
San Diego Region
Attn: 401 Certification; Project No. 09C-059
9174 Sky Park Court, Suite 100
San Diego, California 92123

8. Required Reports: The following list summarizes the reports required per the conditions of this Certification to be submitted to the Regional Board.

Report Topic	Certification Condition	Due Date(s)
Unauthorized Discharge	A.4	Within 24 Hours
Certification Transfer	A.6	Within 10 Days of Transfer
Annual Progress Reports	A.10	August 01 Annually
Commencement of Fill	B.3	5 Days Prior
Final Enhancement and Mitigation Plan	D.2	Prior to Construction
Preservation Mechanism	D.4	Draft Prior to Construction Final within 1 year of Construction Initiation
Mitigation Commencement	D.5	5 days Prior
Mitigation As-Builts	D.8	Within 90 days of Completion
Mitigation Annual Reports	D.13	December 01 Annually
Stream Photo Documentation	E.1	Mitigation and Monitoring Reports
Post-Construction BMP Photo Documentation	F.1	Final Project Annual Report
GIS Reporting	G.1	First Mitigation and Monitoring Report
Project As-Builts	H.3	Final Project Annual Report

CEQA FINDINGS:

- 1. The Riverside County Transportation Department is the lead agency under the California Environmental Quality Act (Public Resources Code section 21000, et seq., (CEQA)), and filed a Notice of Completion on December 20, 2004 for a Environmental Impact Report (SCH# 95062022) for the project under CEQA Guidelines Title 14, California Code of Regulations, 15075 (14 CCR § 15075). Following proposed project changes, the Riverside County Transportation Department released a Supplemental Environmental Impact Report.
- 2. The Regional Board has reviewed the lead agency's Supplemental and original Environmental Impact Report, and finds that the project as proposed will not have a significant effect on the environment with conditioned mitigation measures and therefore determines that issuance of this Certification is consistent with the Supplemental Environmental Impact Report and original Environmental Impact Report.



PUBLIC NOTIFICATION OF PROJECT APPLICATION:

On November 30, 2007 receipt of the project application was posted on the Regional Board web site to serve as appropriate notification to the public.

REGIONAL WATER QUALITY CONTROL BOARD CONTACT PERSON:

Chad Loflen
California Regional Water Quality Control Board, San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123
858-467-2727
cloflen@waterboards.ca.gov

WATER QUALITY CERTIFICATION:

I hereby certify that the proposed discharge from the Clinton Keith Road Extension West Project (Project No. 07C-110) will comply with the applicable provisions of sections 301 ("Effluent Limitations"), 302 ("Water Quality Related Effluent Limitations"), 303 ("Water Quality Standards and Implementation Plans"), 306 ("National Standards of Performance"), and 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Board Order No. 2003-0017-DWQ, "Statewide General Waste Discharge Requirements for Dredged or Fill Discharges that have Received State Water Quality Certification (General WDRs)," which requires compliance with all conditions of this Water Quality Certification. Please note that enrollment under Order No. 2003-017 DWQ is conditional and, should new information come to our attention that indicates a water quality problem, the Regional Board may issue waste discharge requirements at that time.

Except insofar as may be modified by any preceding conditions, all Certification actions are contingent on (a) the discharge being limited and all proposed mitigation being completed in strict compliance with the applicants' project description and/or on the attached Project Information Sheet, and (b) on compliance with all applicable requirements of the Regional Board's Water Quality Control Plan (Basin Plan).

James G. Sm. th, AED Car DAVID W. GIBSON

Executive Officer

Regional Water Quality Control Board

11 Feb 10

Attachments:

- 1. Project Information
- 2. Distribution List
- 3. Location Map
- 4. Site Maps
- 5. Mitigation Maps
- 6. Post-Construction BMP Maps
- 7. Stream Photodocumentation Procedure

ATTACHMENT 1 PROJECT INFORMATION

Applicant:

Riverside County Transportation Department

Attention: Laurie Dobson Correa 4080 Lemon Street, 8th Floor

Riverside, CA 92502. Telephone: 951-955-2016 Facsimile: 951-955-3164 Email: lcorrea@rctlma.org

Applicant

CH2M Hill

Representatives:

Attention: Carolyn Washburn 3 Hutton Centre Drive. Suite 200

Santa Ana, CA 92707 Telephone: 714-227-5463 Facsimile: 714-424-2079

Email: Carolyn.washburn@ch2m.com

Project Name:

Clinton Keith Road Extension Project West

Project Location:

Latitude: 33 35'52.32"N

Longitude: 117 10'17.61"W to

Latitude: 33 36'6.86"N

Longitude: 117 8'12.47"W

Type of Project:

Transportation Improvement

Need for Project:

The project will widen existing Clinton Keith Road and extend the road east to State Route 79. The project is needed to provide an east-west arterial connection between I-215 and

State Route 79.

Project Description:

The project is a portion of the extension, widening, and realignment of Clinton Keith Road from the Interstate 215 to State Route 79 in Riverside County. The project will extend the western portion of Clinton Keith from I-215 to Liberty Lane. The western extension of Clinton Keith requires the placement

of a bridge over Warm Springs Creek, as well as the

placement of larger culverts at Drainages A and B, which in total would result in permanent impacts of 0.31 acres (1,850 linear feet) and temporary impacts of 0.01 acres (360 linear

feet) to non-wetland waters of the United States.

Federal

U.S. Army Corps of Engineers §404, NWP 14,

Agency/Permit:

ACOE Staff: James Mace

Other Required

California Department of Fish and Game 1600 Streambed

Regulatory Approvals:

Alteration Agreement, CDFG Staff: Anna Milloy

California

Environmental Quality

Act (CEQA)

Compliance:

Environmental Impact Report and Supplemental

Environmental Impact Report,

Notice of Completion: 12/20/2004, SCH#95062022,

Lead Agency: Riverside County Transportation Department

Receiving Water:

Warm Springs Creek, Santa Margarita HU, Murrieta HA,

French HSA

Affected Waters of the

United States:

Temporary:

Un-vegetated Streambed: 0.01 acres, 360 linear feet

Permanent:

Un-vegetated Streambed: 0.31 acres, 1,850 linear feet

Dredge Volume:

n/a

Related Projects Implemented/to be Implemented by the Applicant(s): Clinton Keith Road Extension Project East. The U.S. Army Corps of Engineers required the project be split into East and West portions and receive individual 404 permits.

Compensatory Mitigation:

On-site:

Streambed: 2,211 linear feet (at least 0.31 acres) of selfcreating (establishment) drainages on-site and restoration of

temporary impacts to pre-project conditions.

Mitigation Location:

On-site at Drainage A and adjacent to Warm Springs Creek.

Best Management

Construction

Practices (BMPs):

In accordance with State Water Resources Control Board Water Quality Order No. 99-08-DWQ, and any subsequent re-

issuance.

Post Construction

In accordance with the Project Specific Water Quality

Management Plan for the Clinton Keith Road Extension from Antelope Road to "French Valley Creek" prepared by CH2M Hill for the Riverside County Transportation Department and revised March 2009.

The Project will widen the existing paved portion of Clinton Keith Road from the I-215 to Meadowlark lane. The Riverside County Transportation Authority proposes to utilize biofiltration catch basin units in existing storm drains and/or those constructed as part of the project. All new impervious surfaces associated with the construction of Clinton Keith Road from Meadowlark Lane to Liberty Lane are proposed to be treated by a vegetated extended detention basin. The Post-Construction BMPs proposed will treat 100 percent of new impervious surfaces associated with construction of the project and will also treat existing un-treated impervious surfaces west of Meadowlark Lane.

Public Notice:

November 30, 2007. No comments were received on the

project.

Inspection:

n/a

Fees:

Total Due: \$11,550.00

Total Paid: \$11,550.00 (check No. 0500918558 and No.

0501285912)

CIWQS:

Regulatory Measure ID: 337628

Place ID: 708506 Party ID: 366229

ATTACHMENT 2 E-MAIL DISTRIBUTION LIST

James Mace
U.S. Army Corps of Engineers, Regulatory Branch
James.E.Mace@usace.army.mil

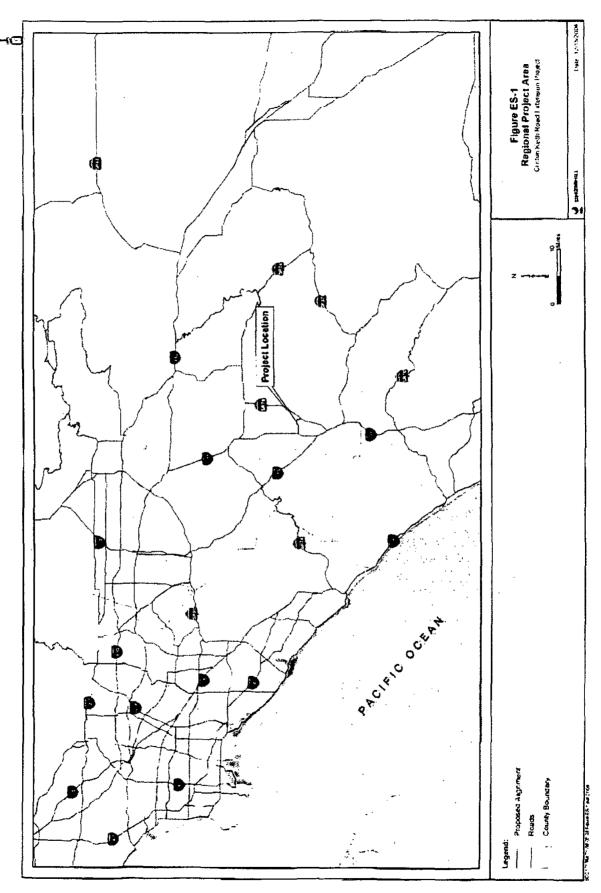
Anna Milloy California Department of Fish and Game amilloy@dfg.ca.gov

USEPA, Region 9 R9-WTR8-Mailbox@epa.gov

State Water Resources Control Board, Division of Water Quality 401 Water Quality Certification and Wetlands Unit Stateboard401@waterboards.ca.gov

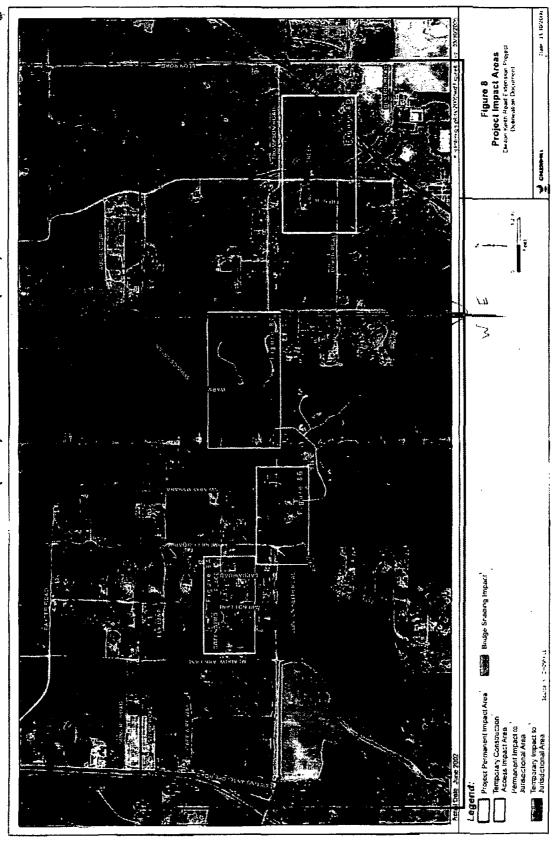
Carolyn Washburn CH2M Hill Carolyn.washburn@ch2m.com

ATTACHMENT 3 PROJECT LOCATION



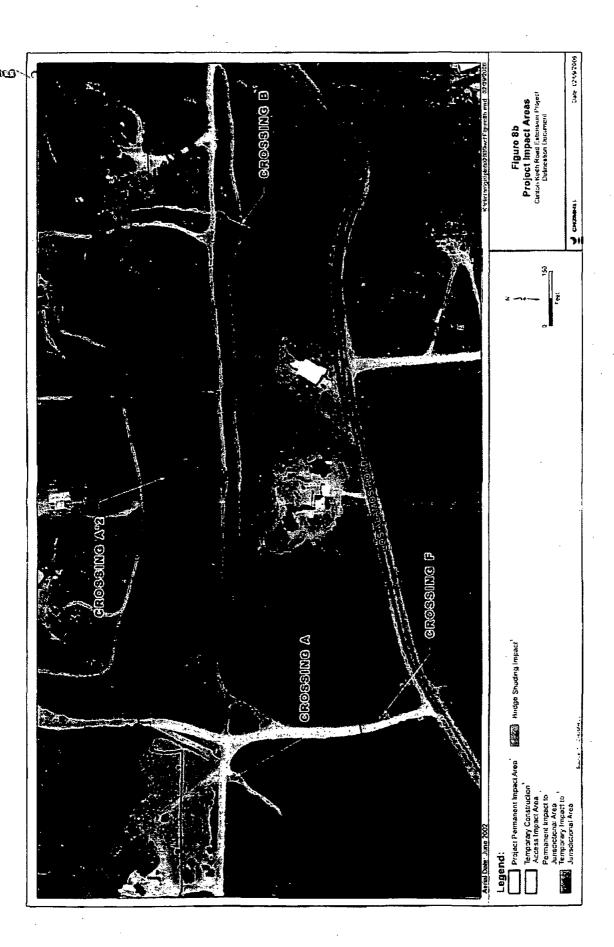
ATTACHMENT 4 SITE MAPS

Red: 07C-110 (West) Blue: 07C-109 (East)

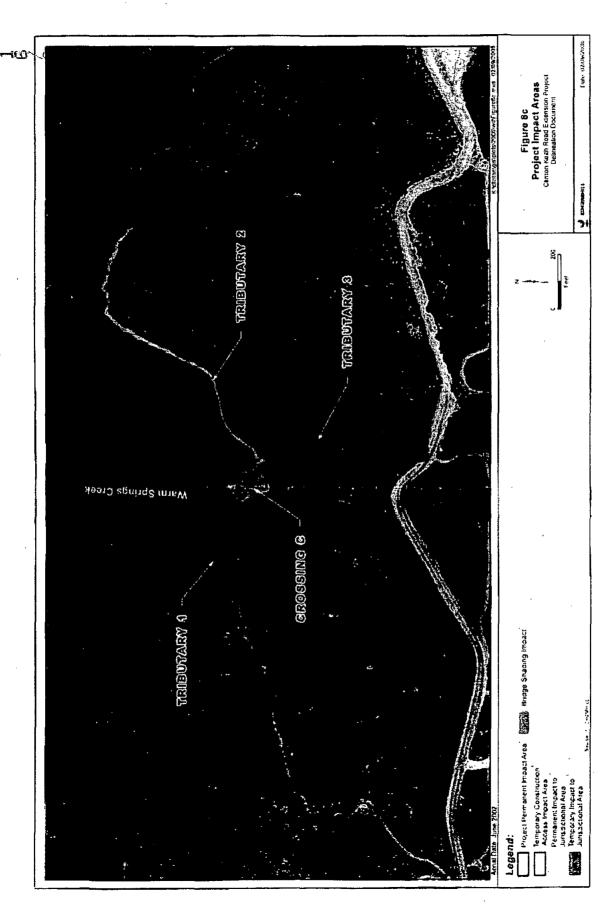


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Attachment 4

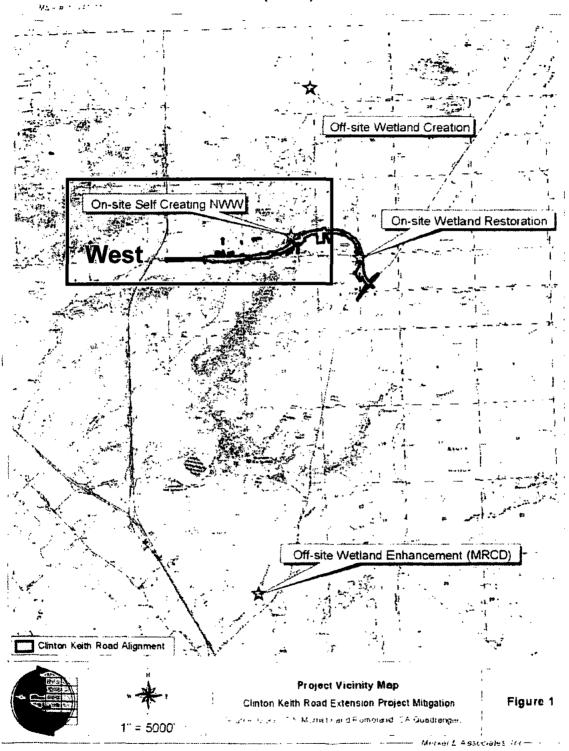


Attachment 4



ATTACHMENT 5 MITIGATION MAPS

Non-wetland waters (NWW) of the United States



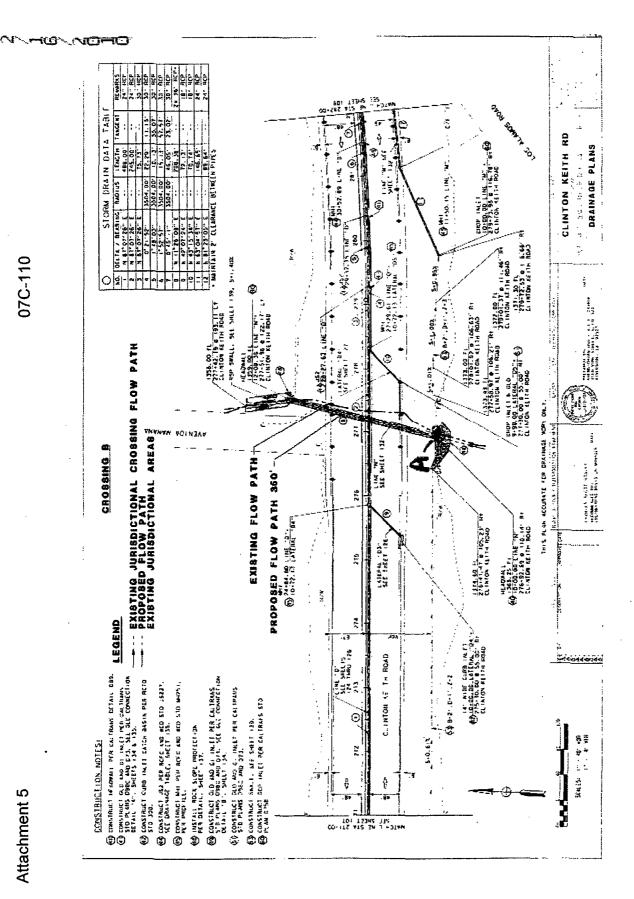
Wetland mitigation is associated with the Clinton Keith Road Project East (07C-109)

Establishment Areas A-G (see additional maps)

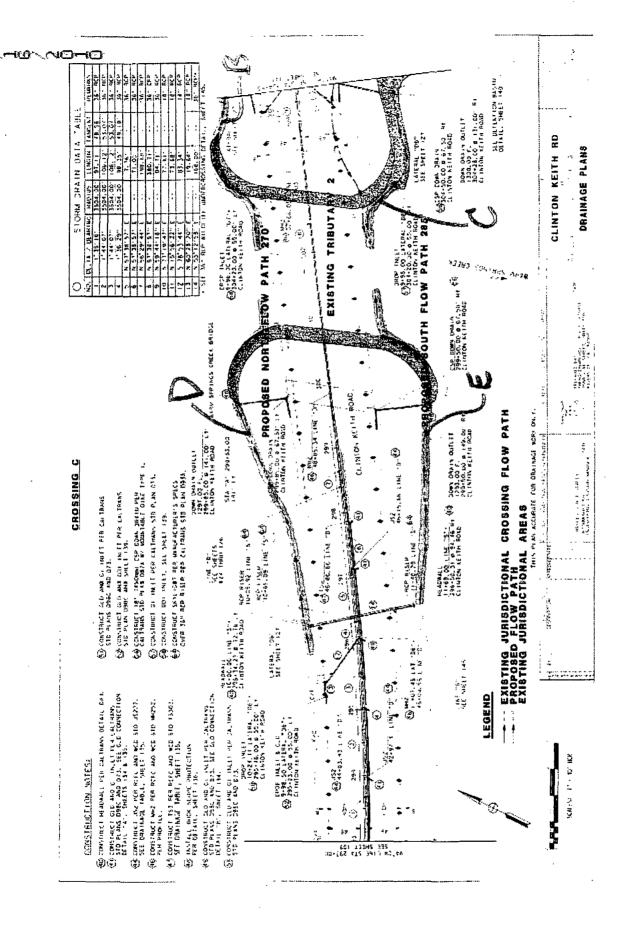
D-582' proposed flow, outside Culvert & inside R/W G-520' proposed flow, outside culvert & inside R/W C-120' proposed flow, outside culvert & inside R/W E-519' proposed flow, outside culvert & inside R/W F-215' proposed flow, outside culvert & inside R/W A-10' proposed flow, outside culvert & inside R/W B-255' proposed flow, outside culvert & inside R/W

Total = 2221 feet

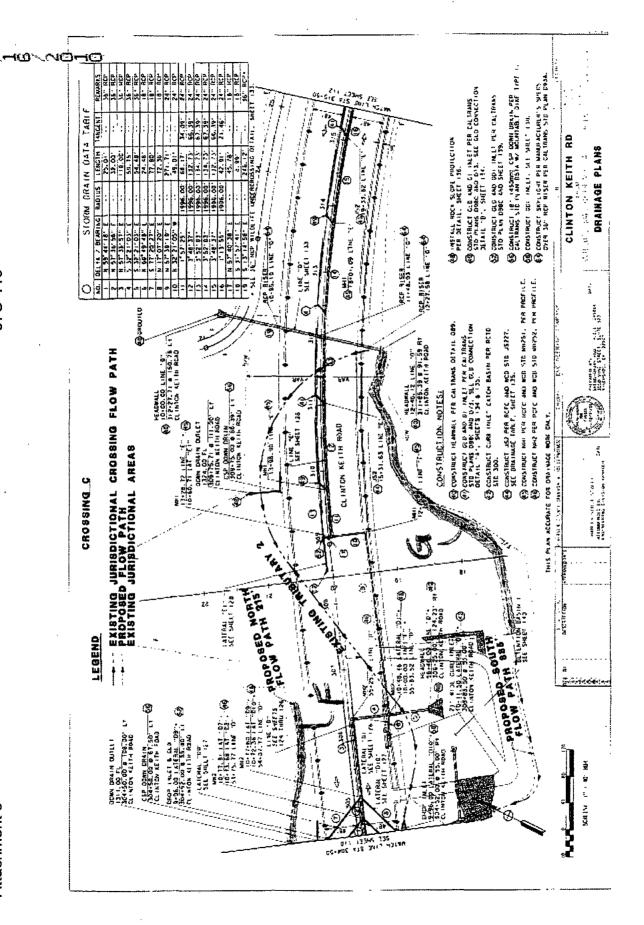
Page 2 of 5



Page 3 of 5

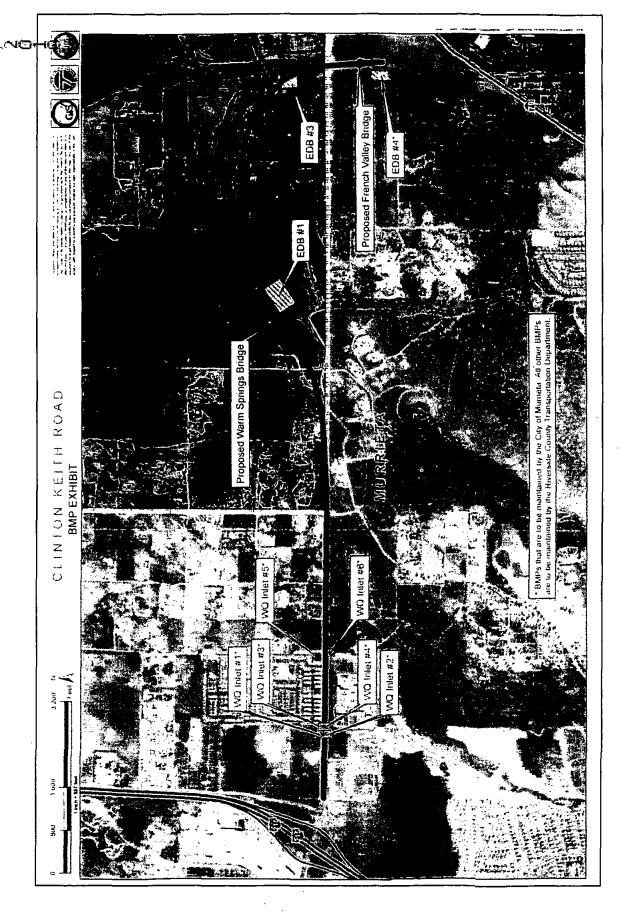


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ATTACHMENT 6 POST CONSTRUCTION BMP MAP



Attachment 7 07C-110

ATTACHMENT 7 STREAM PHOTO DOCUMENTATION PROCEDURES

Standard Operating Procedure (SOP)

Stream Photo Documentation Procedure (CARCD 2001, Written by TAC Visual Assessments work group)

Introduction:

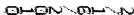
Photographs provide a qualitative, and potentially semi-quantitative, record of conditions in a watershed or on a water body. Photographs can be used to document general conditions on a reach of a stream during a stream walk, pollution events or other impacts, assess resource conditions over time, or can be used to document temporal progress for restoration efforts or other projects designed to benefit water quality. Photographic technology is available to anyone and it does not require a large degree of training or expensive equipment. Photos can be used in reports, presentations, or uploaded onto a computer website or GIS program. This approach is useful in providing a visual portrait of water resources to those who may never have the opportunity to actually visit a monitoring site.

Equipment:

Use the same camera to the extent possible for each photo throughout the duration of the project. Either 35 mm color or digital color cameras are recommended, accompanied by a telephoto lens. If you must change cameras during the program, replace the original camera with a similar one comparable in terms of media (digital vs. 35 mm) and other characteristics. A complete equipment list is suggested as follows:

Required:

- Camera and backup camera
- Folder with copies of previous photos (do not carry original photos in the field)
- Topographic and/or road map
- Aerial photos if available
- Compass
- Timepiece
- Extra film or digital disk capacity (whichever is applicable)
- Extra batteries for camera (if applicable)
- Photo-log data sheets or, alternatively, a bound notebook dedicated to the project
- Yellow photo sign form and black marker, or, alternatively, a small black board and chalk



Optional:

- GPS unit
- Stadia rod (for scale on landscape shots)
- Ruler (for scale on close up views of streams and vegetation)
- Steel fence posts for dedicating fixed photo points in the absence of available fixed landmarks

How to Access Aerial Photographs:

Aerial Photos can be obtained from the following federal agencies:

USGS Earth Science Information Center 507 National Center 12201 Sunrise Valley Drive Reston, VA 22092 800-USA-MAPS

USDA Consolidated Farm Service Agencies Aerial Photography Field Office 222 West 2300 South P.O. Box 30010 Salt Lake City, UT 84103-0010 801-524-5856

Cartographic and Architectural Branch National Archives and Records Administration 8601 Adelphi Road College park, MD 20740-6001 301-713-7040

Roles and Duties of Team:

The team should be comprised of a minimum of two people, and preferably three people for restoration or other water quality improvement projects, as follows:

- 1. Primary Photographer
- 2. Subject, target for centering the photo and providing scale
- 3. Person responsible for determining geographic position and holding the photo sign forms or blackboard.

One of these people is also responsible for taking field notes to describe and record photos and photo points.

Safety Concerns:

Persons involved in photo monitoring should **ALWAYS** put safety first. For safety reasons, always have at least two 2 volunteers for the survey. Make sure that the

area(s) you are surveying either are accessible to the public or that you have obtained permission from the landowner prior to the survey.

Some safety concerns that may be encountered during the survey include, but are not limited to:

- Inclement weather
- Flood conditions, fast flowing water, or very cold water
- Poisonous plants (e.g.: poison oak)
- Dangerous insects and animals (e.g.: bees, rattlesnakes, range animals such as cattle, etc.)
- Harmful or hazardous trash (e.g.: broken glass, hypodermic needles, human feces)

We recommend that the volunteer coordinator or leader discuss the potential hazards with all volunteers prior to any fieldwork.

General Instructions:

From the inception of any photo documentation project until it is completed, always take each photo from the same position (photo point), and at the same bearing and vertical angle at that photo point. Photo point positions should be thoroughly documented, including photographs taken of the photo point. Refer to copies of previous photos when arriving at the photo point. Try to maintain a level (horizontal) camera view unless the terrain is sloped. (If the photo can not be horizontal due to the slope, then record the angle for that photo.) When photo points are first being selected, consider the type of project (meadow or stream restoration, vegetation management for fire control, ambient or event monitoring as part of a stream walk, etc.) and refer to the guidance listed on *Suggestions for Photo Points by Type of Project*.

When taking photographs, try to include landscape features that are unlikely to change over several years (buildings, other structures, and landscape features such as peaks, rock outcrops, large trees, etc.) so that repeat photos will be easy to position. Lighting is, of course, a key ingredient so give consideration to the angle of light, cloud cover, background, shadows, and contrasts. Close view photographs taken from the north (i.e., facing south) will minimize shadows. Medium and long view photos are best shot with the sun at the photographer's back. Some artistic expression is encouraged as some photos may be used on websites and in slide shows (early morning and late evening shots may be useful for this purpose). Seasonal changes can be used to advantage as foliage, stream flow, cloud cover, and site access fluctuate. It is often important to include a ruler, stadia rod, person, farm animal, or automobile in photos to convey the scale of the image. Of particular concern is the angle from which the photo is taken. Oftentimes an overhead or elevated shot from a bridge, cliff, peak, tree, etc. will be instrumental in conveying the full dimensions of the

project. Of most importance overall, however, is being aware of the goal(s) of the project and capturing images that clearly demonstrate progress towards achieving those goal(s). Again, reference to *Suggestions for Photo Points by Type of Project* may be helpful.

If possible, try to include a black board or yellow photo sign in the view, marked at a minimum with the location, subject, time and date of the photograph. A blank photo sign form is included in this document.

Recording Information:

Use a systematic method of recording information about each project, photo point, and photo. The following information should be entered on the photo-log forms (blank form included in this document) or in a dedicated notebook:

- Project or group name, and contract number (if applicable, e.g., for funded restoration projects)
- General location (stream, beach, city, etc.), and short narrative description of project's habitat type, goals, etc.
- Photographer and other team members
- Photo number
- Date
- Time (for each photograph)
- Photo point information, including:
 - Name or other unique identifier (abbreviated name and/or ID number)
 - Narrative description of location including proximity to and direction from notable landscape features like roads, fence lines, creeks, rock outcrops, large trees, buildings, previous photo points, etc. – sufficient for future photographers who have never visited the project to locate the photo point
 - o Latitude, longitude, and altitude from map or GPS unit
- Magnetic compass bearing from the photo point to the subject
- Specific information about the subject of the photo
- Optional additional information: a true compass bearing (corrected for declination) from photo point to subject, time of sunrise and sunset (check newspaper or almanac), and cloud cover.

For ambient monitoring, the stream and shore walk form should be attached or referenced in the photo-log.

When monitoring the implementation of restoration, fuel reduction, or Best Management Practices (BMP) projects, include or attach to the photo-log a narrative description of observable progress in achieving the goals of the project. Provide supplementary information along with the photo, such as noticeable changes in habitat, wildlife, and water quality and quantity.

Archive all photos, along with the associated photo-log information, in a protected environment.

The Photo Point: Establishing Position of Photographer:

- 1. Have available a variety of methods for establishing position: maps, aerial photos, GPS, permanent markers and landmarks, etc. If the primary method fails (e.g., a GPS or lost marker post) then have an alternate method (map, aerial photo, copy of an original photograph of the photo-point, etc).
- 2. Select an existing structure or landmark (mailbox, telephone pole, benchmark, large rock, etc.), identify its latitude and longitude, and choose (and record for future use) the permanent position of the photographer relative to that landmark. Alternatively, choose the procedure described in *Monitoring California's Annual Rangeland Vegetation* (UC/DANR Leaflet 21486, Dec. 1990). This procedure involves placing a permanently marked steel fence post to establish the position of the photographer.
- 3. For restoration, fuel reduction, and BMP projects, photograph the photopoints and carry copies of those photographs on subsequent field visits.

Determining the Compass Bearing:

- 1. Select and record the permanent magnetic bearing of the photo center view. You can also record the true compass bearing (corrected for declination) but do not substitute this for the magnetic bearing. Include a prominent landmark in a set position within the view. If possible, have an assistant stand at a fixed distance from both the photographer and the center of the view, holding a stadia rod if available, within the view of the camera; preferably position the stadia rod on one established, consistent side of the view for each photo (right or left side).
- 2. Alternatively, use the procedure described in *Monitoring California's Annual Rangeland Vegetation* (UC/DANR Leaflet 21486, Dec. 1990). This procedure involves placing a permanently marked steel fence post to establish the position of the focal point (photo center).
- 3. When performing ambient or event photo monitoring, and when a compass is not available, then refer to a map and record the approximate bearing as north, south, east or west.

Suggestions for Photo Points by Type of Project:

Ambient or Event Monitoring, Including Photography Associated with Narrative Visual Assessments:

- 1. When first beginning an ambient monitoring program take representative long and/or medium view photos of stream reaches and segments of shoreline being monitored. Show the positions of these photos on a map, preferably on the stream/shore walk form. Subjects to be photographed include a representative view of the stream or shore condition at the beginning and ending positions of the segment being monitored, storm drain outfalls, confluence of tributaries, structures (e.g., bridges, dams, pipelines, etc.).
- 2. If possible, take a close view photograph of the substrate (streambed), algae, or submerged aquatic vegetation.
- 3. Time series: Photographs of these subjects at the same photo points should be repeated annually during the same season or month if possible.
- 4. Event monitoring refers to any unusual or sporadic conditions encountered during a stream or shore walk, such as trash dumps, turbidity events, oil spills, etc. Photograph and record information on your photo-log and on your Stream and Shore Walk Visual Assessment form. Report pollution events to the Regional Board. Report trash dumps to local authorities.

All Restoration and Fuel Reduction Projects – Time Series:

Take photos immediately before and after construction, planting, or vegetation removal. Long term monitoring should allow for at least annual photography for a minimum of three years after the project, and thereafter at 5 years and ten years.

Meadow Restoration:

- 1. Aerial view (satellite or airplane photography) if available.
- 2. In the absence of an aerial view, a landscape, long view showing an overlapping sequence of photos illustrating a long reach of stream and meadow (satellite photos, or hill close by, fly-over, etc.)
- 3. Long view up or down the longitudinal dimension of the creek showing riparian vegetation growth bounded on each side by grasses, sedges, or whatever that is lower in height
- 4. Long view of conversion of sage and other upland species back to meadow vegetation

- 5. Long view and medium view of streambed changes (straightened back to meandering, sediment back to gravel, etc.)
- 6. Medium and close views of structures, plantings, etc. intended to induce these changes

Stream Restoration/stabilization:

- 1. Aerial view (satellite or airplane photography) if available.
- 2. In the absence of an aerial view, a landscape, long-view showing all or representative sections of the project (bluff, bridge, etc.)
- 3. Long view up or down the stream (from stream level) showing changes in the stream bank, vegetation, etc.
- 4. Long view and medium view of streambed changes (thalweg, gravel, meanders, etc.)
- 5. Medium and close views of structures, plantings, etc. intended to induce these changes.
- 6. Optional: Use a tape set perpendicular across the stream channel at fixed points and include this tape in your photos described in 3 and 4 above. For specific procedures refer to Harrelson, Cheryl C., C.L. Rawlins, and John P. Potyondy, Stream Channel Reference Sites: An Illustrated Guide to Field Techniques, United States Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM-245.

Vegetation Management for Fire Prevention ("fuel reduction"):

- 1. Aerial view (satellite or airplane photography) if available.
- 2. In the absence of an aerial view, a landscape, long view showing all or representative sections of the project (bluff, bridge, etc.)
- 3. Long view (wide angle if possible) showing the project area or areas. Preferably these long views should be from an elevated vantage point.
- 4. Medium view photos showing examples of vegetation changes, and plantings if included in the project. It is recommended that a person (preferably holding a stadia rod) be included in the view for scale

5. To the extent possible include medium and long view photos that include adjacent stream channels.

Stream Sediment Load or Erosion Monitoring:

- 1. Long views from bridge or other elevated position.
- 2. Medium views of bars and banks, with a person (preferably holding a stadia rod) in view for scale.
- 3. Close views of streambed with ruler or other common object in the view for scale.
- 4. Time series: Photograph during the dry season (low flow) once per year or after a significant flood event when streambed is visible. The flood events may be episodic in the south and seasonal in the north.
- 5. Optional: Use a tape set perpendicular across the stream channel at fixed points and include this tape in your photos described in 1 and 2 above. For specific procedures refer to Harrelson, Cheryl C., C.L. Rawlins, and John P. Potyondy, Stream Channel Reference Sites: An Illustrated Guide to Field Techniques, United States Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM-245.

PHOTO- LOG FORM

Project: Location: Date:

Photographer: Team members:

Photo #	Time	Photo Point ID	Photo Pt. Description & Location	Bearing to Subject	Subject Description
				·	
	·				
			:		

General Notes or Comments (weather, cloud cover, time of sunrise and sunset, other pertinent information):

PHOTO SIGN FORM: Print this form on yellow paper. Complete the following information for each photograph. Include in the photographic view so that it will be legible in the finished photo.
Location:
Subject Description:
Date:
Time:

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature X	
1. Article Addressed to: Laurie Dobson Curren Riverside County Transportation Department	D. Is delivery address different from item 1?	
4080 Lemon St., 8th Floor Riverside, CA 92502	3. Service Type Certified Mail Registered Insured Mail C.O.D. Express Mail C.O.D. 4. Restricted Delivery? (Extra Fee) Yes	
2. Article Number 7009 14	410 0002 2347 4091	
PS Form 3811, February 2004 Domestic Ret	turn Receipt 102595-02-M-1540	

			MAIL RE	e Coverage Provided)
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	700	Street, Apt. No.; or PO Box No. 408		^
1	1.10	City, State, ZIP+4	C. A.	2502
		PS Form 3800. August 2	2006	See Reverse for Instructions

Appendix C – Operation of Law CDFW Letter

DEPARTMENT OF FISH AND GAME

http://www.dfg.ca.gov Eastern Sierra-Inland Deserts Region 3602 Inland Empire Blvd., Suite C-220 Ontario, CA 91764 Phone (909) 484-0459 Fax (909) 481-29



March 19, 2007

Ms. Laurie Dobson Correa Riverside County Transportation Department 14th Street Transportation Annex, 3525 Riverside, CA 92501

Carolyn Washburn CH2MHILL 3 Hutton Centre Drive, Suite 200 Santa Ana, CA 92707

> Re: Notification of Lake or Streambed Alteration Notification No. 1600-2006-0272-R6 Clinton Keith Road Extension Project

Dear Laurie:

The Department had until March 19, 2007 to submit a draft Lake or Streambed Alteration Agreement to you or inform you that an agreement is not required. Due to staffing constraints, the Department was unable to meet that date. As a result, by law, you may now complete the project described in your notification without an agreement. In doing so, however, the project must be the same one and conducted in the same manner as described in the notification. That includes completing the project within the proposed term and seasonal work period and implementing all mitigation and avoidance measures to protect fish and wildlife resources specified in the notification. (Fish and Game Code section 1602(a)(4)(D).)

If your project differs from the one described in the notification, you may be in violation of Fish and Game Code section 1602. Also, even though you are entitled to complete the project without an agreement, you are still responsible for complying with all other applicable local, state, and federal laws, including, for example, the state and federal Endangered Species Acts and Fish and Game Code sections 5650 (water pollution) and 5901 (fish passage).

Finally, you must have a copy of this letter **and** your notification with all attachments available at all times at the work site. If you have any questions regarding this matter, please contact Jeff Brandt at the above address or telephone number.

Sincerely,

Jeff Brandt

Environmental Scientist Habitat Conservation Planning, Region 6

CH2VIHILL TRA

TRANSMITTAL

To: California Department of Fish and

Game

4665 Lampson Avenue, Suite J

Los Alamitos, CA 90720

From: Carolyn Washburn

CH2M HILL

3 Hutton Centre Drive, Suite 200

Santa Ana, CA 92707

Attn: Sheila Aguinaldo

Date:

December 20, 2006

Re: Clinton Keith Road Extension Project – California Department of Fish and Game 1600 Permit Application (revised)

We Are Sending You:

Method of shipment:

X Attached

Under separate cover via

Shop Drawings

X Documents

Tracings

Prints

Specifications

Catalogs

Copy of letter

Other:

Quantity	Description		
1 сору	Notification of Lake or Streambed Alteration Application (revised)		
1 CD	Final Supplemental Environmental Impact Report 398 Volume 1 (January 2006)		
1 CD	Final Report: Jurisdictional Delineation and Permitting Report (August 2006)		
1 сору	Check number: 0500918561 for the amount of \$4000.00		

If the material received is not as listed, please notify us at once.

Remarks:

Sheila,

Per your request, enclosed is the revised CDFG Notification of Lake or Streambed Alteration Application for the Clinton Keith Road Extension Project. An application was previously sent to the Streambed Alternation Team on December 1, 2006.

When you have completed your review of the material, please let me know if you have any questions. We can discuss the project in more detail.

Please feel free to contact me at (714) 227-5463.

Thank you,

Carolyn Washburn

		FOR DEPA	ARTMENT USE ONLY		
Date Received	Amount Received	Amount Due	Date Complete	Notification No.	
	\$	\$			



STATE OF CALIFORNIA DEPARTMENT OF FISH AND GAME



NOTIFICATION OF LAKE OR STREAMBED ALTERATION

Complete EACH field, unless otherwise indicated, following the enclosed instructions and submit ALL required enclosures. Attach additional pages, if necessary.

1. APPLICANT PROPOSING PROJECT

Name	Laurie Dobson Correa		
Business/Agency	Riverside County Transportation Department (RCTD)		
Street Address	14th Street Transportation Annex, 3525 14th Street		
City, State, Zip	Riverside, CA 92501		
Telephone	(951) 955-2016	Fax	(951) 955-3164
Email	LDCORREA@rctlma.org		

2. CONTACT PERSON (Complete only if different from applicant)

Name	Carolyn Washburn		
Street Address	3 Hutton Centre Drive, Suite 200		
City, State, Zip	Santa Ana, CA 92707		
Telephone	(714) 227-5463	Fax	(714) 424-2079
Email	Carolyn.Washburn@ch2m.com		

3. PROPERTY OWNER (Complete only if different from applicant)

Name	County of Riverside	
Street Address		
City, State, Zip		
Telephone		Fax
Email		

4. PROJECT NAME AND AGREEMENT TERM

A. Project Name		Clin	ton Keith Road Extension Pr	roject	
B. Agreement Term	n Requested	100	Regular (<i>5 years or less</i>) Long-term (<i>greater than 5 ye</i>	ears)	
C. Project Term			D. Seasonal Work Period		E. Number of Work Days
Beginning (year)	Ending (yea	ar)	Start Date (month/day)	End Date (month/day)	
2007	2008		09/01	08/31	180.00

5. A	GREEMENT TYPE			
Che	ck the applicable box. If box B, C, D, or E is checked,	complete the specifi	ed attachment.	
Α.	☑ Standard (Most construction projects, excluding the	ne categories listed b	pelow)	
В.	☐Gravel/Sand/Rock Extraction (Attachment A)	Mine I.D. N	Number:	
C.	☐ Timber Harvesting (Attachment B)	THP Numl	ber:	
D.	☐ Water Diversion/Extraction/Impoundment (Attachi	ment C) SWRCB N	lumber:	
E.	☐Routine Maintenance (Attachment D)			
F.	☐DFG Fisheries Restoration Grant Program (FRGF) FRGP Col	ntract Number:	_
G.	☐ Master			
Н.	☐ Master Timber Harvesting			
1	A. Project Clinton Keith Road Extension P	roject	B. Project Cost \$40,000,000.00	C. Project Fee \$4,000.00
	ase see the current fee schedule to determine the appr d corresponding fee. Note: The Department may not pro			
	A. Project			Ex
1	Clinton Keith Road Extension P	roject	\$40,000,000.00	\$4,000.00
2				
3				
4				
5				
			D. Base Fee	
			(if applicable)	
			E. TOTAL FEE ENCLOSED	\$4,000.00
7 PI	RIOR NOTIFICATION OR ORDER		LNOLOGED	
A. I	Has a notification previously been submitted to, or a La		eration Agreement previou	sly been issued
	☐Yes (Provide the information below) ☑No			
	Applicant: Notifica	tion Number:	Date	
В. І	Is this notification being submitted in response to an order			
	✓ No ☐Yes (Enclose a copy of the order, notice, or person who directed the applicant to submit the company of the order.			3.53
	describe the circumstances relating to the			
			☐ Continued on	additional page(s)

8. PROJECT LOCATION

A. Address or descrip	tion of proj	ect location.						
(Include a map that directions from a m		and the state of the second of the second of the second second second second second second second second second	ject with	h a referei	nce to t	he nearest city	or town, and	provide driving
The proposed Project i unincorporated Riversi six-lane urban arterial Road to the point wher alignment to SR 79.	de County, between Ai	, between Interstate ntelope Road and	e (I) 215 SR 79.	and Stat This will o	e Route occur al	e (SR) 79. The ong the existing	Project cons g dirt alignme	ists of constructing a ent of Clinton Keith
See attached Jurisdicti	onal Deline	eation and Permitti	ng Repo	ort for mo	e detai	ľ.		
							☐ Continue	d on additional page(s)
B. River, stream, or lal	ke affected	by the project.	Varm Sp	prings and	l Frenc	h Valley Creek		, , ,
C. What water body is	the river, s	stream, or lake tribu	utary to?	? Mur	rieta C	reek		
D. Is the river or stream			oject list	ted in the		∐Yes	☑ No	Unknown
E. County Riversid	le		-94-					
F. USGS 7.5 Minute C	Quad Map N	Name		G. Towns	hip	H. Range	I. Section	J. 1/4 Section
Refer to Table	8F on page	e 1 of attachment.						
							✓ Continue	d on additional page(s)
K. Meridian (check on	e)	□Humboldt	□Mt. □	Diablo 🔽]San B	Bernardino		
L. Assessor's Parcel N	lumber(s)							
The project spans multi numbers along propos			inal Sup	plementa	I EIR (J	January 2006) f	Tamain les	
ages They have F- 11 copy.	1007 1070			A 37500	7500	West 100 - 100 100		d on additional page(s)
M. Coordinates (If ava					T	20 40		
C son is non various	Latitude:	-117.1422	887296	1	Longi	itude:	33.60030	0597749
Latitude/Longitude		Degrees/Minutes	/Second	ds	Z Deci	mal Degrees	Dec	imal Minutes
UTM	Easting:		Northir	ng:			□Zon	e 10
Datum used for Latitud	de/Longitud	de or UTM		☐ NAD 27				

9. PROJECT CATEGORY AND WORK TYPE (Check each box that applies)

PROJECT CATEGORY	NEW CONSTRUCTION	REPLACE EXISTING STRUCTURE	REPAIR/MAINTAIN EXISTING STRUCTURE
Bank stabilization – bioengineering/recontouring	Z		
Bank stabilization – rip-rap/retaining wall/gabion			
Boat dock/pier			
Boat ramp			
Bridge			
Channel clearing/vegetation management			
Culvert	abla		
Debris basin			
Dam			
Diversion structure – weir or pump intake			
Filling of wetland, river, stream, or lake	\square		
Geotechnical survey			
Habitat enhancement – revegetation/mitigation			
Levee			
Low water crossing			
Road/trail	\square		
Sediment removal – pond, stream, or marina			
Storm drain outfall structure			
Temporary stream crossing			
Utility crossing: Horizontal Directional Drilling			
Jack/bore			
Open trench			
Other (specify): Construction of Clinton Keith Roa	ad 🔽		

10. PROJECT DESCRIPTION

Α.	Describe the n	roject in detai	I. Photographs	of the project location	on and immediate	surrounding area	should be included.
----	----------------	-----------------	----------------	-------------------------	------------------	------------------	---------------------

- Include any structures (e.g., rip-rap, culverts, or channel clearing) that will be placed, built, or completed in or near the stream, river, or lake.
- Specify the type and volume of materials that will be used.
- If water will be diverted or drafted, specify the purpose or use.

Enclose diagrams, drawings, plans, and/or maps that provide all of the following: site specific construction details; the

dimensions of each structure and/or extent of each activity in entire project area (i.e., "bird's-eye view") showing the location features, and where the equipment/machinery will enter and e	n of each structure a	and/or acti	
See attached Jurisdictional Delineation and Permitting Report for	a detailed project d	escription	
			0
B. Specify the equipment and machinery that will be used to com	polete the project	Ц	Continued on additional page(s)
See attached Final Supplemental Environmental Impact Report for	V 100100 W 1001		
			0
C. Will water he present during the prepared work paried (apolit	fied in how 4 D) in		Continued on additional page(s)
C. Will water be present during the proposed work period (specified the stream, river, or lake (specified in box 8.B).	iled in box 4.D) in	□Yes	☑ No (Skip to box 11)
D. Will the proposed project require work in the wetted portion	☐Yes (Enclose a	a plan to d	livert water around work site)
of the channel?	✓No		

11. PROJECT IMPACTS

A. Describe impacts to the bed, channel, a Specify the dimensions of the modificat volume of material (cubic yards) that will be a second control of the control of th	ions	n length (linear feet) and area (square	e feet or acres) and the type and
See attached Jurisdictional Delineation and	d Peri	mitting Report for more detail.	
			Continued on additional page(s)
B. Will the project affect any vegetation?	<u></u>	Yes (Complete the tables below)] No
Vegetation Type		Temporary Impact	Permanent Impact
Refer to Table 11B on page 2 of attachme	ent.	Linear feet:	Linear feet:
		Total area:	Total area:
		Linear feet:	Linear feet:
		Total area:	Total area:
Tree Species		Number of Trees to be Removed	Trunk Diameter (range)
None			
			✓ Continued on additional page(s)
C. Are any special status animal or plant s near the project site?	speci	es, or habitat that could support such	species, known to be present on or
☑ Yes (List each species and/or descri			☐ Unknown logical Resources
			☐ Continued on additional page(s)
D. Identify the source(s) of information that	t sup	ports a "yes" or "no" answer above in	Box 11.C.
Refer to Final Supplemental Environmental	l Imp	act Report, Volume 1, Section 3.5 Bio	logical Resources.
12			☐Continued on additional page(s)
E. Has a biological study been completed	for th	ne project site?	
☑Yes (Enclose the biological study)		□No	
Note: A biological assessment or study	may	be required to evaluate potential proje	ect impacts on biological resources.
F. Has a hydrological study been complete	ed fo	r the project or project site?	
✓ Yes (Enclose the hydrological study))	□ No	
Note: A hydrological study or other info			
recurrence intervals) may be required to	o eva	iuate potential project impacts on hyd	irology.

12. MEASURES TO PROTECT FISH, WILDIFE, AND PLANT RESOURCES

See attached Jurisdictional Delineation and Permitting Report for more detail.
☐ Continued on additional page(s)
B. Describe project avoidance and/or minimization measures to protect fish, wildlife, and plant resources.
See attached Jurisdictional Delineation and Permitting Report for more detail.
Also refer to Final Supplemental Environmental Impact Report, Volume 1, Section 3.5 Biological Resources.
☐ Continued on additional page(s)
C. Describe any project mitigation and/or compensation measures to protect fish, wildlife, and plant resources.
See attached Jurisdictional Delineation and Permitting Report for more detail.
☐ Continued on additional page(s)
13. PERMITS
List any local, state, and federal permits required for the project and check the corresponding box(es). Enclose a copy of
each permit that has been issued.
A Clean Water Act Section 404 Permit: NWP 14
B Clean Water Act Section 401
C Applied Issued
D. Unknown whether □local, □state, or □ federal permit is needed for the project. (Check each box that applies)
☑ Continued on additional page(s)

14. ENVIRONMENTAL REVIEW

				onmental Quality Act (CEQA), and/or federal Endangered
Yes (Check the box for	each CEQA, NEPA, CESA,	and ESA docum	ent that has been prepared a	and enclose a copy of each)
☐ No (Check the box for a	each CEQA, NEPA, CESA,	and ESA docume	ent listed below that will be o	r is being prepared)
☐Notice of Exemption	☐ Mitigated Negati	ive Declaration	□NEPA docum	ent (<i>type</i>):
☐ Initial Study	☑ Environmental Ir	npact Report	☐ CESA docum	ent (<i>type</i>):
☐Negative Declaration	✓ Notice of Determ	nination (Enclos	e) ESA documer	nt (<i>type</i>):
☐THP/ NTMP	☐ Mitigation, Monit	oring, Reporting	g Plan	
B. State Clearinghouse Num	nber (<i>if applicable</i>)		SCH # 199506	62002
C. Has a CEQA lead agency	/ been determined?	☑Yes (Comp	lete boxes D, E, and F)	\square No (Skip to box 14.G)
D. CEQA Lead Agency		Riverside Cour	nty Transportation Depart	ment
E. Contact Person	Laurie Dobson C	orrea	F. Telephone Number	(951) 955-2016
G. If the project described in	this notification is part of	f a larger projec	t or plan, briefly describe	that larger project or plan.
	<i>((((((((((</i>	74		☐ Continued on additional page(s)
H. Has an environmental fili	ng fee (Fish and Game C		5. mg - 1. mg	PARAMETER SECTION STATES
✓ Yes (Enclose proof of Note: If a filing fee is require is paid.			-	n a filing fee has not been paid) n Agreement until the filing fee
15. SITE INSPECTION				
Check one box only.				
representative to enter	r the property where the p	project describe	s necessary, I hereby auth d in this notification will ta nt the Department such e	ke place at any
☑ I request the Departme			Laurie Dobson	Correa
delay the Department'	here the project describe	ether a Lake or	ation will take place. I und Streambed Alteration Agr	schedule a date and time derstand that this may reement is required and/or

DIGITAL FORMAT Is any of the information included as part of the notification available in digital format (i.e., CD, DVD, etc.)? Yes (Please enclose the information via digital media with the completed notification form) ΠNo 17. SIGNATURE I hereby certify that to the best of my knowledge the information in this notification is true and correct and that I am authorized to sign this notification as, or on behalf of, the applicant. I understand that if any information in this notification is found to be untrue or incorrect, the Department may suspend processing this notification or suspend or revoke any draft or final Lake or Streambed Alteration Agreement issued pursuant to this notification. I understand also that if any information in this notification is found to be untrue or incorrect and the project described in this notification has already begun, I and/or the applicant may be subject to civil or criminal prosecution. I understand that this notification applies only to the project(s) described herein and that I and/or the applicant may be subject to civil or criminal prosecution for undertaking any project not described herein unless the Department has been separately notified of that project in accordance with Fish and Game Code section 1602 or 1611. 12-19-04 Signature of Applicant or Applicant's Authorized Representative

8.F PROJECT LOCATION (Continued)

USGS 7.5 Minute Quad Map Name	Township	Range	Section
Murrieta and Bachelor Mountain	6S	2W	31
Murrieta	6S	3W	36
Murrieta and Bachelor Mountain	78	2W	06
Murrieta	78	3W	01
Murrieta	6S	3W	35
Murrieta	6S	3W	34
Murrieta	78	3W	02
Murrieta	78	ЗW	03

11.B PROJECT IMPACTS (Continued)

Crossing Designation	Approximate Linear Feet/ Crossed	CDFG Jurisdictional Area Impacted (temporary/ permanent) (Acres)	Habitat Description
Crossing A	450 Culvert Crossing	None / 0.13	Upland vegetation – California Buckwheat and chamise
Crossing B	350 Culvert Crossing	None / 0.03	Upland vegetation – Grasses and low herbaceous species
Crossing C: Warm Springs Creek	360 Bridge Crossing	0.01/ 0.30 (shading) ¹	cottonwood (<i>Populus</i> sp.), willow (<i>Salix</i> sp.), and mulefat (<i>Baccharis salicifolia</i>)
Crossing C (Tributary 2): Warm Springs Creek	1050 Culvert Crossing	None / 0.15	Upland vegetation - California buckwheat and chamise
Crossing D: French Valley Creek	180 Bridge Crossing	0.24/ 0.25	Channel dominated by tamarisk (Tamarix sp.), saltgrass (Distichlis spicata), alkali heath (Frankenia salina), bulrush (Scirpus sp.), tobacco tree (Nicotiana glauca); adjacent upland dominated by Russian thistle (Salsola sp.), prickly lettuce (Lactua serriola), mustard (Brassica campestris), and other weedy species

¹ The bridge span of Crossing C at Warm Springs Creek may result in indirect permanent impacts to CDFG jurisdiction (riparian canopy) from shading by the bridge structure.

13. PERMITS (Continued)

Agency	License/Permit/Agreement		
Murrieta Creek and Santa Margarita River	Clean Water Act Section 404 Permit		
United States Fish and Wildlife Services	Consistency determination through the County of Riverside Resource Conservation Authority to support Biological Condition in Section 404 permit		
California Department of Transportation	Encroachment Permit for impacts to ROW for SR 79		
State Water Resources Control Board - San Diego Regional Water Quality Control Board	Elimination System Permit/Storm Water Pollution Prevention Plan Best Management Practices		
County of Riverside Resource Conservation Authority	Joint Project Review of Proposed Project and Consistency Determination		
City of Murrieta	Encroachment Permit		

SCO/DRD2130.DOC/ 063480001 ATTACHMENT PAGE 3



Riverside County Treasurer of Riverside, California

0500918561

Void 6 Months from Date Issued

UNION BANK OF CALIFORNIA Government Services Division

11-49/1210

Date: 06/05/2006

Pay Amount: \$4000.00***

****FOUR THOUSAND AND XX / 100 US DOLLAR**** To The Order Of

> CALIFORNIA DEPARTMENT OF FISH AND GAME 3602 Inland Empire Blvd Suite C-220 Ontario, CA 91764

Robert & Byrd

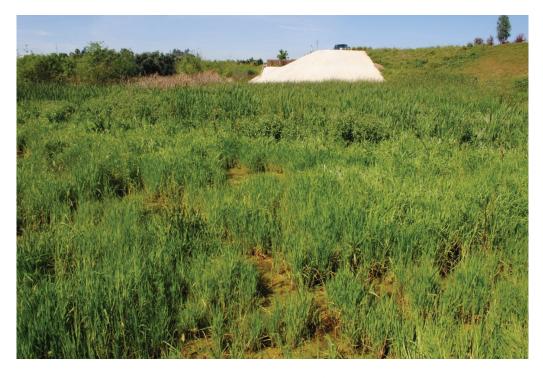
County Auditor-Controller

#0500918561# #121000497# 2740018313#

Appendix D – Site Photos



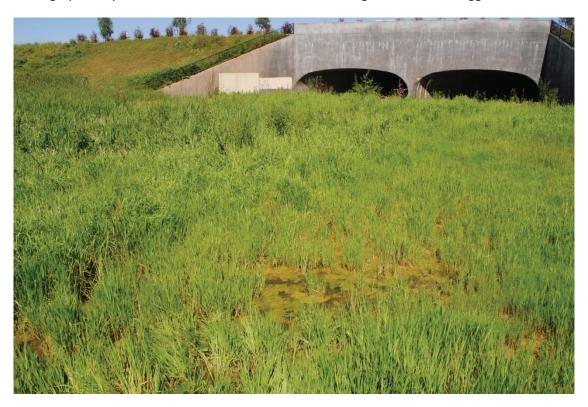
Photograph 1: Wetland Area at Clinton Keith Road/Leon Road Intersection in April 2010 – Facing east looking at Briggs Road



Photograph 2 : Wetland Area at Clinton Keith Road/Leon Road Intersection in April 2010 - facing northwest looking at Clinton Keith Road



Photograph 3: HydroArch Culvert Under Leon Road – facing east towards Briggs Road



Photograph 4: Another view of HydroArch Culvert Under Leon Road - facing north